2023-2024

This booklet contains practice tests and rules for

Art (grades 7-8)

Calculator Applications (grades 6-8)

Chess Puzzle (grades 6-8)

Dictionary Skills (grades 7-8)

Editorial Writing (grades 7-8)

Impromptu (grades 7-8)

Listening Skills (grades 7-8)

Maps, Graphs & Charts (grades 7-8)

Mathematics (grades 6-8)

Number Sense (grades 7-8)

Ready Writing (grades 7-8)

Science (now grades 6-8)

Social Studies (grades 7-8)

Duplicate materials as needed. For contest rules, refer to the A+ Handbook or UIL website.

JUNIOR HIGH ACADEMIC STUDY MATERIALS BOOKLET

www.uiltexas.org/aplus



CONTESTANT NUMBER:

Official List) for Part A. However, there is no penalty if contestants also list the artist's first name. Scoring is based on correctness of the artist's last name and the title of the work. NOTE: Contestants are required to list only the artist's last name (as it appears on the

FOR GRADER USE ONLY

Score Test Below:

out of 60. Initials_

out of 60. Initials

Papers contending to place:

out of 60. Initials

	University Interscholastic League	A+ Art Contest Part A • Answer Sheet
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Write your contestant number in the upper right corner, and circle your grade below. Circle Grade Level: 4 5 6 7 8

Circle Grade Level:

PAINTING

ARTIST

*To calculate final score, add Part A and Part B together.

2.	
3.	
4.	
ζ.	
7.	
10.	
11.	
.2.	
13.	
14.	
15.	

FOR GRADER USE ONLY Score Test Below: _____ out of 60. Initials_____ out of 60. Initials____ Papers contending to place: ____ out of 60. Initials____ *To calculate final score, add Part A and Part B together.



Write your contestant number in the upper right corner, and circle your grade below.

Circle Grade Level: 5 6 7 8 **Art Elements & Principles Art History** Α C C 1. В D 16. A В D 2. C C В D Α D 17. A В 3. C C Α 18. D В D Α В C D 4. Α В D 19. В C Α 5. C 20. C D Α В D Α В 6. В C В C Α 21. D D Α 7. C D C D Α В 22. Α В 8. В Α C 23. В C D D Α C C 9. Α В D 24. Α В D 10. Α В C D 25. Α В C D 11. False True True **False** 26. True True 12. False False 27. 13. True False True False 28. 14. True **False False** 29. True 15. **False** False True 30. True

Art Practice Test- Grades 7-8

These sample questions use the current art list for 2023-24 and 2024-25 school years.

Art Elements and Principles Section

- 1. What distinguishes abstract art from other art forms?
 - a) Its functional role in religious ceremonies, rituals, and places of worship.
 - b) Its borrowing of images from popular culture, like that of celebrities and advertisements
 - c) The emphasis on colors, shapes, lines, and forms to express emotions and ideas.
 - d) Its use of collage, which does not exist in representational art
- 2. In a black and white photograph, what kind of colors are present?
 - a) Neutral colors
 - b) Warm colors
 - c) Cool colors
 - d) Primary colors
- 3. Which of the following elements is most likely to appear in the foreground of a landscape painting?
 - a) The sun or moon
 - b) Colorful flowers or plants
 - c) Distant mountains or trees
 - d) A faraway castle or palace atop a hill
- 4. When talking about an artwork, composition refers to
 - a) the range of colors that the artist used.
 - b) the way the elements work together to create a unified whole.
 - c) emotions and feelings expressed by the artist.
 - d) The size and weight of the canvas.
- 5. When complementary colors are placed next to each other in an artwork,
 - a) they look gray from far away.
 - b) they intensify each other and make the colors appear brighter.
 - c) they create an optical illusion of the painting floating in midair.
 - a) they make the painting heavier and more difficult to carry.

- 6. What are secondary colors?
 - a) Colors like black, white, gray, and beige
 - b) Colors obtained by blending primary colors
 - c) Colors made by mixing complementary pairs of colors
 - d) Colors used only by Modern and Contemporary artists
- 7. What is the primary difference between shape and form in art?
 - a) Shape is two-dimensional, while form is three-dimensional.
 - b) Shape is abstract, while form is representational.
 - c) Shapes have depth and volume, while forms are flat.
 - d) Painters need to study shapes, but not forms.
- 8. What feeling or emotion do curved lines typically convey in a painting?
 - a) Strength and order
 - b) Tension and instability
 - c) Sudden and rapid change
 - d) Grace, gentleness, and fluidity
- 9. What does rhythm add to a painting?
 - a) The feeling of movement and flow
 - b) The illusion of three-dimensional space
 - c) The sound of music
 - d) A more accurate and realistic appearance
- 10. Which of the following would be an example of chiaroscuro?
 - a) A painting with multiple points of view
 - b) A painting with bright and bold colors in a chaotic composition
 - c) A painting with strong contrasts between light and shadow to create a dramatic effect
 - d) A painting with soft and delicate brushstrokes and blended colors

True/False

- 11. Teal and aqua are examples of cool colors.
- 12. When talking about painting, "texture" can refer to the actual artwork's surface, not just the perceived texture of the painted objects.

- 13. An artist's "oeuvre" typically includes only their most famous or well-known works.
- 14. Mixing yellow and purple makes orange.
- 15. The "mood" of an artwork is mainly conveyed through the facial expressions and body language of the depicted subjects.

Art History Section

- 16. What is the Young Girl Plucking a Duck primarily about?
 - a) A young girl's realization of her beauty
 - b) A young person's confrontation with death
 - c) A girl's passion for cooking and food
 - d) A duck hunting expedition
- 17. The Renaissance period is known as a "rebirth" of which cultural influences?
 - a) Ancient Egyptian and Mesopotamian
 - b) Medieval European
 - c) Eastern Orthodox
 - d) Classical Greek and Roman
- 18. What does Composition with Large Blue Plane, Red, Black, Yellow, Gray represent?
 - a) A crowded marketplace filled with people
 - b) The chaos and trauma of World War I
 - c) The underlying order of the world
 - d) Nothing, it is purely abstract
- 19. Banquet Still Life with Roses reminds viewers to
 - a) embrace the joy of parties and celebrations.
 - b) treasure the beauty of flowers and nature.
 - c) Appreciate the impermanence of life and cherish moments.
 - d) Value the abundance of food and luxury.

- 20. The Impressionists were known for capturing
 - a) multiple angles of a subject simultaneously.
 - b) the idealized and timeless beauty of gods and goddesses.
 - c) the subconscious mind and dream worlds
 - d) the changing effects of natural light.
- 21. How does Kandinsky's Improvisation 31 (Sea Battle) appear at first glance?
 - a) Abstract
 - b) Surreal and dreamlike
 - c) Violent and dark
 - d) Dull and colorless
- 22. During the Baroque period in the Netherlands, artists like Johannes Vermeer and Judith Leyster were known for painting
 - a) Enormous religious frescoes to adorn grand Cathedrals
 - b) Genre paintings, still lifes, and landscapes
 - c) Cubist works
 - d) Portraits of nobility
- 23. The portrait Woman Holding an Apple appears extremely lifelike when
 - a) viewed from afar.
 - b) viewed under dim lighting.
 - c) viewed through a magnifying glass.
 - d) viewed sideways.
- 24. What object does Romare Bearden use to symbolize the Great Migration and Underground Railroad in Tomorrow I May Be Far Away?
 - a) A train
 - b) A map of the United States
 - c) A white dove
 - d) A red apple

- 25. How does Alice Neel's approach to painting portraits differ from Renaissance artists?
 - a) Neel painted with well-blended brushstrokes, while Renaissance artists used loose and expressive lines.
 - b) Neel's portraits were often formal in their composition, while Renaissance portraits tended to feel intimate and spontaneous.
 - c) Neel captured the subject's external beauty, while Renaissance artists captured their humanity and inner emotions.
 - d) Neel's approach to portraits was more about revealing the subject's true character and personality, while Renaissance artists aimed for a more idealized representation.

True/False

- 26. Regionalist paintings primarily showcased scenes from European cities and cultures and were highly sought after by middle-class citizens during the Dutch Golden Age.
- 27. During the Contemporary period, many artists settled in New York, making the city a cultural center.
- 28. Only those of extreme wealth and nobility had a chance to model for Caravaggio.
- 29. Diego Rivera painted Delfina Flores several times throughout her life, capturing her growth and development as she aged.
- 30. The girls in Edvard Munch's Girls on the Pier are smiling out at the viewer.

Art Practice Test- Grades 7-8

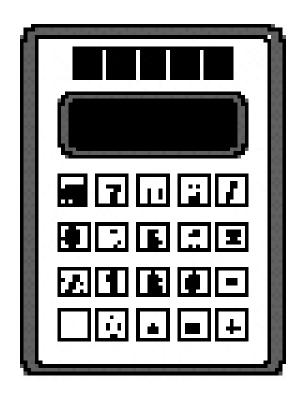
Key

- 1. C
- 2. A
- 3. B
- 4. B
- 5. B
- 6. B
- 7. A
- 8. D
- 9. A
- 10. C
- 11. A
- 12. A
- 13. B
- 14. B
- 15. B
- 16. B
- 17. D
- 18. C
- 19. C
- 20.D
- 21. A
- 22. B
- 23.A
- 24. A
- 25. D
- 26.B
- 27. A
- 28. B
- 29.A
- 30.B

INVITATIONAL 2022-2023

A+ ACADEMICS





Calculator Applications

DO NOT OPEN TEST
UNTIL TOLD TO DO SO

2022 - 2023 UIL MS Calculator Test A

23X-1. 8460 - 7910 ------ 1=_____

23X-2. 29 - 40 - 36 ------ 2=_____

23X-3. 1740 + 680 + 1080 ----- 3=____

23X-4. π - 9 - 12 - 14 ------ 4=____

23X-5. 239 - 33 - 224 - 100 ----- 5=_____

23X-6. 98 + 146 - 326 - 267 - 414 ------ 6=____

23X-7. $(\pi + 1.17 - 1.59) - (1.45 + 0.641)$ ----- 7 =

23X-8. (0.36 - 0.69) + (0.273 - 1.13 - 0.409) ------ 8=____

23X-9. 412 x 563 x 70 ------ 9=_____

23X-10. 9820 x 249 x 4190 x 213 ----- 10=____

23X-11. What is the product of 82.8 and -562? ----- 11=_____

23X-12. Shayna ran 3.75 miles each day during cross-country season for 11 weeks. How many total miles did she run? ------ 12= mi

23X-13. The grapes, that I like to eat, were selling for a price of \$1.68 per pound. If the scale that weighs the grapes states that I have bought 3.75 pounds of grapes, how much did I pay for the grapes?----- 13=\$_______

23X-14.	(249)[233 x 183/152]]	14=

23X-16.
$$\left\lceil \frac{275}{274} \right\rceil [(52/243) + 0.176]$$
 ------ 16=_____

23X-17.
$$\{(108)(154 - 21)(145)\} - 8.71 \times 10^5$$
 ----- 17=_____

23X-18.
$$\frac{[179/(266)]/0.945}{(18.7 \times 29.1)(7.32)}$$
 ------ 18=_____

23X-19.
$$\left[\frac{(0.00189 + 7.18 \times 10^{-4})}{40/54} \right] \left[\frac{179}{8.85} \right]$$
 ------ 19=______

23X-21.
$$\frac{(\pi)(17/5)(14/5)}{130}$$
 ------ 21=_____

23X-22.
$$\frac{(761 + 131 - 232)}{\{(0.202 - 0.204)/(13)\}}$$
 ----- 22=_____

23X-23.
$$\frac{[-(780 + 990)(559 - 911)]}{(2.48 \times 10^{-4}/(0.115))}$$
 ------ 23=_____

23X–25. If the current US postal rate for first class mail letter is 60¢ for the first ounce and 24¢ for each additional ounce, how many first class letters can I mail for \$25, if they each weigh 2 ounces? ----- 25= (integer)

23X–26. During the summer of 2022, the high temperatures at my farm for one week in July were: 101° F, 103° F, 108° F, 102° F, 104° F, and 101° F. What was the mean temperature for that week in July?----- 26=______<u> $^{\circ}$ F</u>

Page 23X-3

23X-30.
$$\frac{1}{-0.0309} + \frac{1}{(\pi)(0.0734 - 0.0843)}$$
 ----- 30=_____

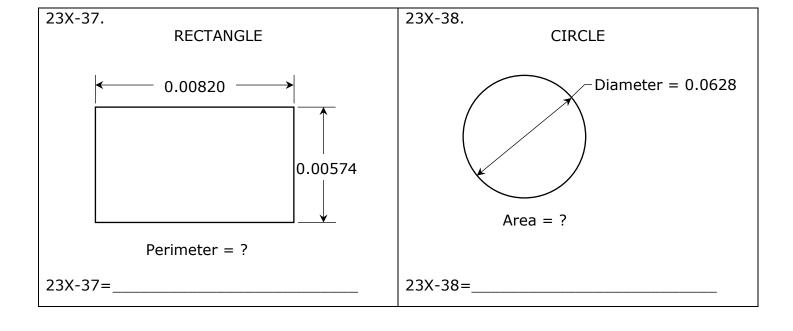
23X-31.
$$(50.6)\left[\frac{1.66}{(3.74\times10^{11})}\right]$$
 ------ 31=____

23X-32.
$$(7.21)[(4.41x10^{-9}) - (1.45x10^{-9})]$$
 ------ 32=_____

23X-34.
$$\frac{1}{293} - \frac{1}{(363 + 429)}$$
 ----- 34=____

23X-35. What is the maximum volume of air in an empty room that has 10' tall walls, a flat floor and ceiling, and measures 12' by 16' 8"?- 35= <u>ft</u>³

23X–36. Each day at school Wesley eats breakfast and lunch. If each breakfast meal costs \$1.25 and each lunch meal costs \$2.35, how much total money does Wesley spend for eating meals on 20 days of school? 36=\$______



23X-39.
$$(0.412 + 0.113 + 0.454)^2(915 + 1950)^2$$
 ----- 39=_____

23X-41.
$$\left[\frac{1590}{69.1}\right](89.9 + 57)^3$$
 ------ 41=_____

$$23X-42$$
. $(3450)\sqrt{1500+521+1840}$ ----- $42=$

23X-43.
$$(1/(0.00151))(2.20\times10^5 - 2.19\times10^5)^3$$
 ----- 43=_____

23X-44.
$$(1/\pi)\sqrt{\frac{0.0616 + 0.0347}{0.0651 - 0.0214}}$$
 ------ 44=_____

23X-45.
$$\left[\sqrt[3]{(275/526)(990)} \right]^4$$
 ----- 45=_____

23X-46.
$$(1210)\sqrt{41600 + 47800 - 7470}$$
 ----- 46=_____

23X-47. Genny walked south 37 meters and stopped. She then walked 70.3 meters west and stopped. What is the shortest distance back to where she started walking? ------ 47= ______ m

23X-51.
$$\frac{\sqrt{0.647 + \pi + 0.773}}{(0.0364 - 0.212 + 0.2)^2}$$
 ------ 51=_____

23X-52.
$$\left[\frac{\sqrt{\sqrt{192 - 126}}}{-(12800 - 19700)} \right]^{3} [2150 + 1760] ------ 52 = \underline{}$$

23X-53.
$$\sqrt{\frac{5.40 \times 10^8}{(560)(13500)}} + \frac{(1400 - 7810)}{(306 + 129)}$$
 ----- 53=_____

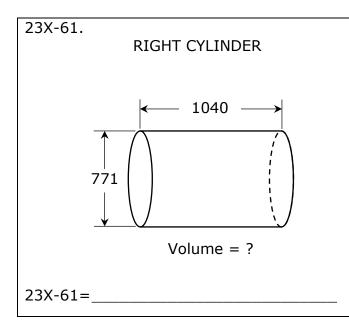
23X-54.
$$0.294 + \sqrt{(756)/(8310)} - (0.395 + 0.332)^2$$
 ----- 54=_____

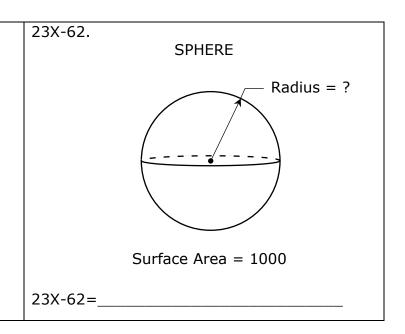
23X-55.
$$\sqrt{\frac{(44500)(23100)}{(4.32\times10^5)(7250)}}$$
 - 0.145 + 0.457 ------ 55=_____

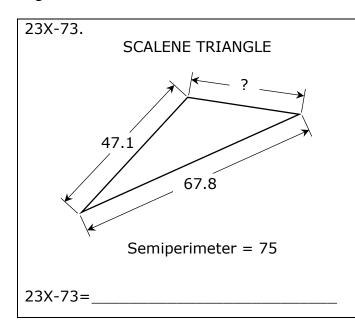
23X-56.
$$(58.8)^2 \sqrt{(0.593)/(27.8)} - (359 + 287)$$
 ----- 56=____

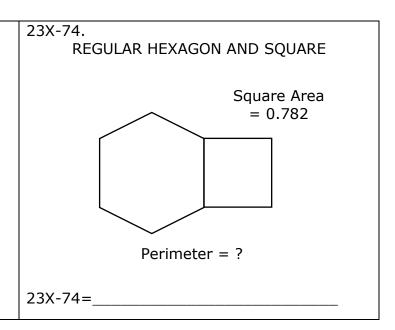
23X-57.
$$\sqrt{\frac{(5.61)(57.2)}{(6.73) + (7.05)}} + 1/(0.769)^6$$
 ----- 57=____

23X-59. On a particular day, the money exchange rate for the Mexican
Peso to the US Dollar was 20.8199 Pesos to 1 US Dollar, while the Chinese
Yuan (¥) to Mexican Peso rate was 1 Chinese Yuan to 3.02529 Mexican
Pesos. If Mr. Ortega converted \$500 to Pesos and converted his Pesos in
Beijing, China to Yuan, how many Yuan did he get to spend in China? - 59=______¥









23X-80.
$$1 + 0.55 + (0.55)^2 + \frac{(0.55)^4}{8} - \frac{(0.55)^5}{15}$$
 ----- 80=____

23X-79. 1 + 2 + 3 + ... + 939 ----- 79=

2022 – 2023 UIL MS Calculator Test A Answer Key

23X-1	$= 550$ $= 5.50 \times 10^{2}$	23X-14	= 69800 $= 6.98 \times 10^4$	23X-27	= -5.50x10 ⁹
23X-2	= -47.0 = -4.70×10 ¹	23X-15	= -1.45x10 ⁸	23X-28	$= 4.25$ $= 4.25 \times 10^{0}$
23X-3	= 3500 = 3.50×10^3	23X-16	$= 0.391$ $= 3.91 \times 10^{-1}$	23X-29	$= 6.57 \times 10^{-14}$
23X-4	= -31.9	23X-17	= 1.21x10 ⁶	23X-30	= -61.6 = -6.16×10^{1}
23X-5	$= -3.19 \times 10^{1}$ = -118	23X-18	$= 0.000179$ $= 1.79 \times 10^{-4}$	23X-31	$= 2.25 \times 10^{-10}$
	$= -1.18 \times 10^2$	23X-19	$= 0.0712$ $= 7.12 \times 10^{-2}$	23X-32	$= 2.13 \times 10^{-8}$
23X-6	= -763 = -7.63x10 ²	23X-20	= 7.12x10 = = 0.0906	23X-33	= -1.82 = -1.82×10^{0}
23X-7	= 0.631 = 6.31×10^{-1}		$= 9.06 \times 10^{-2}$	23X-34	$= 0.00215$ $= 2.15 \times 10^{-3}$
23X-8	= -1.60	23X-21	$= 0.230$ $= 2.30 \times 10^{-1}$	23X-35	
	= -1.60x10 ⁰	23X-22	= -4.29x10 ⁶	23X-36	$= 2.00 \times 10^3$ = 72.00
23X-9	$= 1.62 \times 10^7$	23X-23	= 2.89x10 ⁸	23X-37	Dollar Answer = 0.0279
23X-10	$= 2.18 \times 10^{12}$	23X-24		23X-38	$= 2.79 \times 10^{-2}$ $= 0.00310$
23X-11	= -46500 = -4.65×10^4	23X-25		237-30	$= 3.10 \times 10^{-3}$
23X-12	= 289 = 2.89×10^2	23X-26	_		
23X-13	= 6.30 Dollar Answer		$= 1.03 \times 10^{2}$		

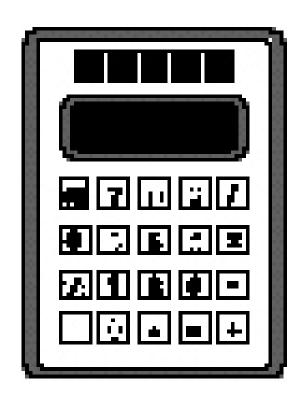
2022 – 2023 UIL MS Calculator Test A Answer Key

	$= 7.87 \times 10^6$	23X-51	$= 3590$ $= 3.59 \times 10^{3}$	23X-61 23X-62	$= 4.86 \times 10^8$	23X-73	= 35.1 = 3.51×10^{1}
	$= 1.52 \times 10^{19}$ $= 7.29 \times 10^{7}$		$= 2.76 \times 10^{-7}$		$= 8.92 \times 10^{0}$	23X-74	= 7.07 = 7.07×10^{0}
23X-42	= 214000 = 2.14x10 ⁵		= -6.28 = -6.28×10^{0}		$= 0.975$ $= 9.75 \times 10^{-1}$	23X-75	$= -0.0289$ $= -2.89 \times 10^{-2}$
23X-43	$= 6.62 \times 10^{11}$	23X-54	$= 0.0671$ $= 6.71 \times 10^{-2}$	23X-64	= -11.6 = -1.16×10^{1}	23X-76	$= 0.00242$ $= 2.42 \times 10^{-3}$
23X-44	$= 0.473$ $= 4.73 \times 10^{-1}$	23X-55	$= 0.885$ $= 8.85 \times 10^{-1}$	23X-65	= 391 = 3.91×10^2	23X-77	
23X-45	= 4160 = 4.16×10^3	23X-56	= -141 = -1.41×10^2	23X-66	$= 0.0707$ $= 7.07 \times 10^{-2}$	23X-78	
23X-46	= 346000 = 3.46x10 ⁵	23X-57	= 9.66 = 9.66×10^{0}	23X-67	= 23.6 = 2.36×10^{1}	23X-79	$= 4.69 \times 10^{3}$ $= 441000$ $= 4.41 \times 10^{5}$
23X-47	= 79.4 = 7.94×10^{1}	23X-58	= 8.16 $= 8.16 \times 10^{0}$		$= 0.0902$ $= 9.02 \times 10^{-2}$	23X-80	
23X-48	= 4.87 = 4.87×10^{0}	23X-59	$= 3440$ $= 3.44 \times 10^{3}$	23X-69	$= -9.76 \times 10^{-1}$		- 1.00×10
23X-49	= 6020 = 6.02×10^3	23X-60	$= 162$ $= 1.62 \times 10^{2}$	23X-70	$= 67.5$ $= 6.75 \times 10^{1}$		
23X-50	$= 5.06$ $= 5.06 \times 10^{0}$			23X-71	= 8.98 Dollar Answer		
	- J.UUXIU			23X-72	$= 3.77$ $= 3.77 \times 10^{0}$		

FALL/WINTER DISTRICT 2022-2023

A+ ACADEMICS





Calculator Applications

DO NOT OPEN TEST
UNTIL TOLD TO DO SO

2022 - 2023 UIL MS Calculator Test B

23Y-1. 5910 - 3870 ------ 1=_____

23Y-2. -53 - 49 + 10 ------ 2=_____

23Y-3. 52.7 + 28.6 + 13.1 ------ 3=_____

23Y-4. $18 - 18 - \pi - 16$ ------ 4=

23Y-5. 1250 - 1030 - 1060 + 592 ------ 5=____

23Y-6. 400 + 400 - 336 - 264 + 275 ------ 6=____

23Y-7. 3.94 + 6.23 + 6.42 + 1.97 + 1.29 ------ 7=_____

23Y-8. 1.4 + 0.454 - 0.673 + 1.45 + 1.41 ------ 8=_____

23Y-9. 180 x 131 x 359 ----- 9=_____

23Y-10. 1150 x 1920 x 179 x 4070 ----- 10=____

23Y-11. What is the result of adding pi and 4.81 and then multiplying that sum by -0.00506? ------ 11=______

23Y-13. How much fuel do I use in driving 515 miles if my car can travel 23 miles per gallon of fuel? ------ gal

23Y-14.	(748)[490 x 747/128]	14=
23Y-15.	40/[37 x 40 x 132]	15=
23Y-16.	{(600)(407 - 317)(446)} - 2.28×10 ⁷	16=
23Y-17.	(110 + 62)[154 - 156 - 129]	17=
23Y-18.	(294/368) + (400/400) (0.0242 - 0.0189)	18=
23Y-19.	$ \left[\frac{(0.0156 + 0.0102)}{137/141} \right] \left[\frac{13.2}{3.6} \right] - \dots $	
23Y-20.	$\frac{(\pi)(11/6)(15/13)}{131}$	20=
23Y-21.	(0.00217)(400) 0.011 (17.4 - 4.87)	21=
23Y-22.	[-(1780 + 1350)(2030 - 968)] (169/(1.11×10 ⁵))	22=
23Y-23.	$\frac{(\pi)(189/352)(543/314)}{(182/227)}$	23=
local restaupaid \$5.75	To help with the family expenses Mike works as a busboy at urant for 3 hours per night, Tuesday through Sunday. If he we per hour and earned on average \$22 per night in tips, what al weekly earnings?	as
	Lady and Max, our two dogs, each consume 2.25 pounds of ach day. How much dog food do they eat together during the September, October, and November?	

Page 23Y-3

 $(6.42 \times 10^{-4}) \left[(0.548/0.506)(\pi/0.34) \right]$ ------ 27=_____ 23Y-27.

23Y-28. (3.50×10^{12})

[5880 - (6220 + 5090)] + [(29.2)(1780 - 1890)] ----- 29=____ 23Y-29.

 $\frac{1}{0.807} + \frac{1}{(0.48 - 0.173)}$ ----- 30=_____ 23Y-30.

 $[0.00942] \boxed{\frac{1/9.24 \times 10^{-4}}{1/0.0052}} - \dots 31 = \underline{\qquad \qquad }$ 23Y-31.

23Y-32. $\frac{1}{31.6} + \frac{1}{(\pi)(209 - 162)}$ ----- 32=____

 $\frac{1}{283} - \frac{1}{730} + \frac{1}{769}$ ----- 33=____ 23Y-33.

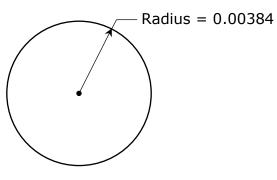
 $\left[\frac{1/542}{1/480}\right] + [0.597]$ ----- 34=_____ 23Y-34.

23Y-35. If a quarter is 1.75 millimeters thick, what is the greatest number of guarters that can be stacked one foot high? (Remember 1 inch = $2.\overline{54}$ centimeters)----- 35= (integer)

23Y-36. The average daily amount of rainfall for the month of March in Houston is 3.86". If it rained 2.95" on March 10th, 4.76" on March 19th and 3.75" on March 25th, how much does it need to rain on the last day of

March to reach that average daily rainfall amount for the month?----- 36=

23Y-37.



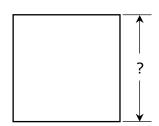
CIRCLE

Circumference = ?

23Y-37=____

23Y-38.

SQUARE



Perimeter = 8.29×10^{12}

23Y-38=

Page 23Y-4

23Y-39.
$$\left[\frac{71.8}{0.744}\right]$$
(54.5 + 82.3)³ ----- 39=____

23Y-42.
$$(1/(0.0313))(6160 - 3450)^2$$
 ----- $42=$

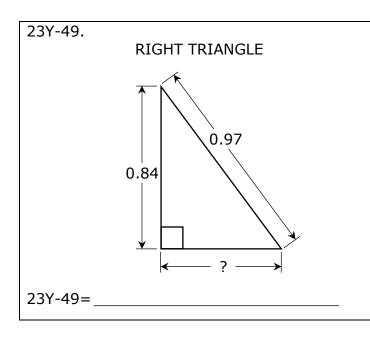
23Y-43.
$$\sqrt{8.17} + \sqrt{46 + 32.4} - (\pi)\sqrt{30.8}$$
 ----- 43=_____

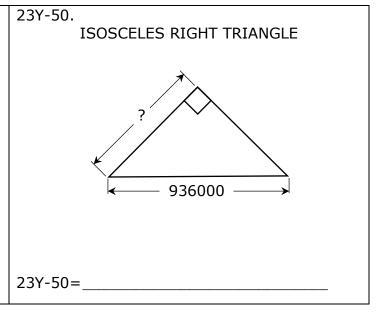
23Y-44.
$$(1/\pi)\sqrt[4]{\frac{0.0186 + 0.0402}{0.146 - 0.142}}$$
 ------ 44=_____

23Y-45.
$$\frac{1}{\sqrt{91.3 + 74.4 + 112}} + \left(\frac{1}{\sqrt{2.44}}\right)^4$$
 ----- 45=_____

23Y-46.
$$(5370)\sqrt{8360 + 10600 - 7120}$$
 ----- 46=_____

23Y-48. The hands of a watch measured 6.35 mm and 9.75 mm. At 9:00 o'clock, what is the distance between the tips of the hands?----- 48= mm





23Y-51.
$$\frac{(687 + 3910 - 4450)^2}{\sqrt{0.0709 + 0.0453 + 0.0752}}$$
 ----- 51=____

23Y-52.
$$\sqrt{\frac{0.395}{(0.0281)(419)}} + \frac{(0.0179 - 0.00918)}{(0.011 + 0.00998)}$$
 ----- 52=_____

23Y-53.
$$\left[\frac{\sqrt{\sqrt{322 - 241}}}{-(1870 - 350)} \right]^{3} [59000 + 27100] ----- 53 = \underline{\hspace{1cm}}$$

23Y-54.
$$7080 + \sqrt{(12800)(14300)} - (14300 + 13300) ----- 54=$$

23Y-55.
$$0.942 + \sqrt{\frac{(343)}{(60.2)}} - (0.581 + 0.959)^2$$
 ----- 55=_____

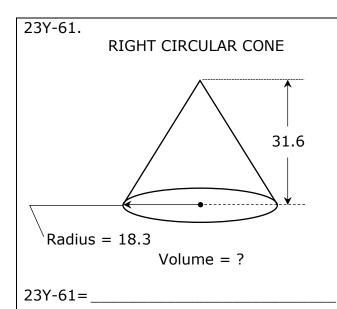
23Y-56.
$$\sqrt{\frac{(4.42\times10^5)(18600)}{(25400)(21000)}}$$
 - 0.41 + 1.89 ------ 56=_____

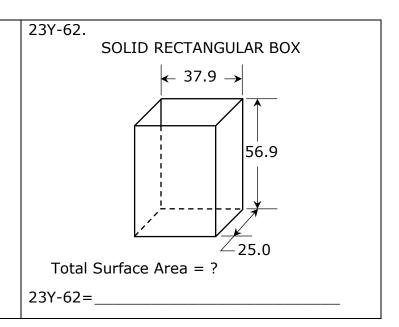
23Y-57.
$$\sqrt{\frac{(1420)(11.8)}{(451)+(325)}} + 1/(2.16)^{-2}$$
 ----- 57=_____

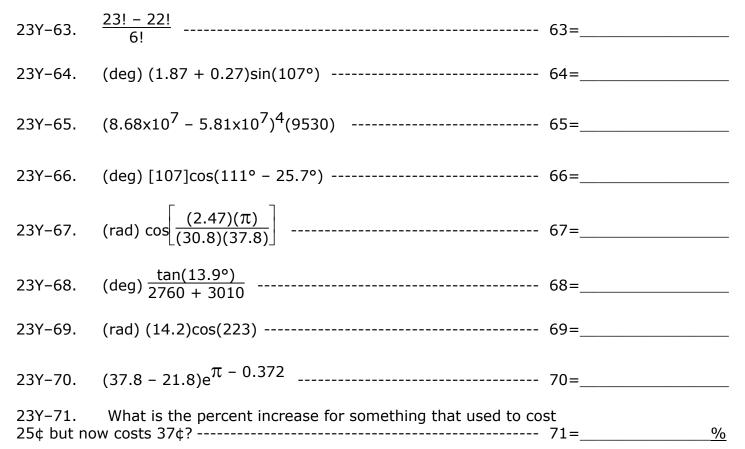
23Y-58.
$$\sqrt{\frac{(966)(2100)}{(7.37) + (12.9)}}$$
 - 400 ----- 58=_____

On a particular day, the money exchange rate for the Mexican Peso to the US Dollar was 20.4341 Pesos to 1 US Dollar, while the Norwegian Kroner (kr) to Mexican Peso rate was 2.01969 Mexican Pesos to 1 Norwegian Kroner. If Mrs. Silva converted \$1000 to Pesos and converted her Pesos in Oslo, Norway to Kroner, how many Kroner did she get to spend in Norway for Christmas gifts while on a cruise?---- 59=______

To calculate the distance a dropped object falls, in feet, you simply multiply one-half times the acceleration due to gravity times the length of time squared the object is in the air. So, if the acceleration due to gravity is 32.174 ft/sec² and the object falls 6 feet, how long did the object take to fall that distance? ------ 60=_____s

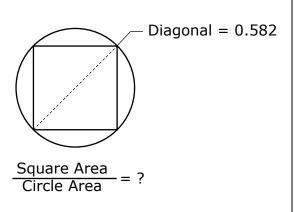




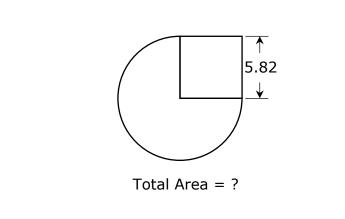


23Y-72. If a number squared minus one and a half times that same number is 2.5, what is that number if it is negative? ----- 72=______

23Y-73. CIRCUMSCRIBED SQUARE AND CIRCLE



23Y-74. THREE-QUARTERS CIRCLE AND SQUARE



23Y-74=____

23Y-75.
$$\frac{\text{Log}(4.90 \times 10^{10} + 5.09 \times 10^{10})}{1.32}$$
 ----- 75=_____

23Y-76.
$$\frac{(0.241)^{0.648}(2.8)^{0.44}}{(0.576 - 0.386)^{-4}}$$
 ----- 76=_____

23Y-77.
$$(8350)10^{(0.981)(5.22)}$$
 ----- 77=____

2022 – 2023 UIL MS Calculator Test B Answer Key

23Y-1	= 2040 = 2.04×10^3	23Y-14	$= 2.14 \times 10^6$	23Y-27	$= 0.00642$ $= 6.42 \times 10^{-3}$
23Y-2	= -92.0 = -9.20×10^{1}	23Y-15	$= 0.000205$ $= 2.05 \times 10^{-4}$	23Y-28	$= 8.26 \times 10^{-13}$
23Y-3	$= 94.4$ $= 9.44 \times 10^{1}$	23Y-16	$= 1.28 \times 10^6$	23Y-29	= -8640 $= -8.64 \times 10^3$
23Y-4	= -19.1	23Y-17	$= -22500$ = -2.25 \times 10 ⁴	23Y-30	= 4.50 = 4.50×10^{0}
	$= -1.91 \times 10^{1}$	23Y-18	= 339 = 3.39×10 ²	23Y-31	= 0.0530
23Y-5	$= -248$ $= -2.48 \times 10^{2}$	23Y-19	= 0.0974		$= 5.30 \times 10^{-2}$
23Y-6	= 475 = 4.75×10 ²		$= 9.74 \times 10^{-2}$	23Y-32	$= 0.0384$ $= 3.84 \times 10^{-2}$
23Y-7	= 19.9	23Y-20	$= 0.0507$ $= 5.07 \times 10^{-2}$	23Y-33	= 0.00346 = 3.46×10^{-3}
221/2	$= 1.99 \times 10^{1}$	23Y-21	= 989 = 9.89×10^2	23Y-34	= 1.48
23Y-8	= 4.04 = 4.04×10^0	23Y-22	= -2.18x10 ⁹		$= 1.48 \times 10^{0}$
23Y-9	$= 8.47 \times 10^6$		= 3.64	23Y-35	= 174 Integer Answer = 3.98
23Y-10	$= 1.61 \times 10^{12}$		$= 3.64 \times 10^{0}$	23Y-36	$= 3.98 \times 10^{0}$
23Y-11	$= -0.0402$ $= -4.02 \times 10^{-2}$	23Y-24	= 235.50 Dollar Answer	23Y-37	$= 0.0241$ $= 2.41 \times 10^{-2}$
23Y-12	= 436.42 Dollar Answer	23Y-25	$= 410$ = 4.10×10^2	23Y-38	$= 2.07 \times 10^{12}$
23Y-13	= 22.4 = 2.24×10^{1}	23Y-26	$= 27.3 = 2.73 \times 10^{1}$		

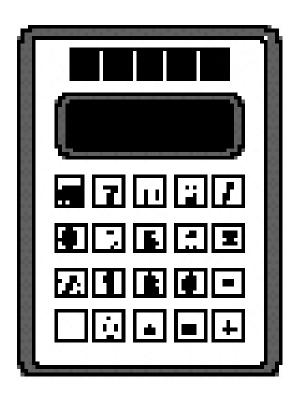
2022 – 2023 UIL MS Calculator Test B Answer Key

$\begin{array}{cccccccccccccccccccccccccccccccccccc$		$= 2.47 \times 10^8$	23Y-51	= 49400 = 4.94×10^4	23Y-61	$= 11100 = 1.11 \times 10^4$	23Y-73	$= 0.637$ $= 6.37 \times 10^{-1}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			23Y-52		23Y-62		23Y-74	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			23Y-53				23Y-75	_
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	23Y-43		23Y-54	_		$= 2.05 \times 10^{0}$	23Y-76	$= 0.000815$ $= 8.15 \times 10^{-4}$
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	23Y-44		23Y-55	= 0.957			23Y-77	$= 1.10 \times 10^9$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	23Y-45		23Y-56		23Y-67		23Y-78	
$23Y-47 = 16.8 = 9.31 \times 10^{0}$ $= 1.68 \times 10^{1}$ $= 1.68 \times 10^{1}$ $= 23Y-58 = -83.6$ $= -8.36 \times 10^{1}$ $= -8.36 \times 10^{1}$ $= -8.36 \times 10^{1}$ $= -8.36 \times 10^{1}$ $= -1.42 \times 10^{1}$ $= 23Y-70 = 255$ $= 1.01 \times 10^{4}$ $= 23Y-70 = 255$ $= 2.55 \times 10^{2}$ $= 23Y-70 = 255$ $= 2.55 \times 10^{2}$ $= 23Y-70 = 255$ $= 2.55 \times 10^{2}$ $= 23Y-71 = 48.0$ $= 4.80 \times 10^{1}$ $= 4.80 \times 10^{1}$ $= 6.62 \times 10^{5}$ $= 6.62 \times 10^{5}$ $= 33Y-72 = -1.00$	23Y-46		23Y-57			$= 1.00 \times 10^{0}$	23Y-79	
$23Y-48 = 11.6 = -8.36 \times 10^{1} = -1.42 \times 10^{1}$ $= 1.16 \times 10^{1} \qquad 23Y-59 = 10100 \qquad 23Y-70 = 255$ $= 2.55 \times 10^{2}$ $= 4.85 \times 10^{-1} \qquad 23Y-60 = 0.611 \qquad 23Y-71 = 48.0$ $= 6.62 \times 10^{5} \qquad = 6.11 \times 10^{-1}$ $= 6.62 \times 10^{5} \qquad 23Y-72 = -1.00$	23Y-47			$= 9.31 \times 10^{0}$			23Y-80	_
$23Y-49 = 0.485$ $= 4.85 \times 10^{-1}$ $23Y-50 = 662000$ $= 6.62 \times 10^{5}$ $= 6.62 \times 10^{5}$ $23Y-50 = 10100$ $= 1.01 \times 10^{4}$ $= 1.01 \times 10^{4}$ $= 2.55 \times 10^{2}$ $23Y-71 = 48.0$ $= 4.80 \times 10^{1}$ $= 4.80 \times 10^{1}$ $= 23Y-72 = -1.00$	23Y-48	= 11.6		$= -8.36 \times 10^{1}$	23V-70			
$23Y-60 = 0.611$ $23Y-50 = 662000$ $= 6.62 \times 10^{5}$ $23Y-72 = -1.00$	23Y-49	= 0.485	23Y-59	_		$= 2.55 \times 10^2$		
$= 6.62 \times 10^{5}$ 23Y-72 = -1.00	23Y-50		23Y-60		23Y-71			
		<u>_</u>			23Y-72	_		

SPRING DISTRICT 2022-2023

A+ ACADEMICS





Calculator Applications

DO NOT OPEN TEST
UNTIL TOLD TO DO SO

How to Write the Answers

- A. For all problems except stated problems as noted below—write three significant digits.
 - 1. Examples (* means correct but not recommended)

Correct: 12.3, 123, 123.*, 1.23x10*, 1.23x10⁰*

1.23x10¹, 1.23x10⁰¹, .0190, 0.0190, 1.90x10⁻²

Incorrect: 12.30, 123.0, 1.23(10)², 1.23·10², 1.230x10²,

1.23*10², 0.19, 1.9x10⁻², 19.0x10⁻³, 1.90E-02,

answers written in parentheses(), brackets[] or braces{} are incorrect

2. Plus or minus one digit error in the third significant digit is permitted.

B. For stated problems

- 1. Except for integer and dollar sign problems, answers to stated problems should be written with three significant digits.
- 2. Integer problems are indicated by (integer) in the answer blank. Integer problems answers must be exact, no plus or minus one digit, no decimal point or scientific notation.
- 3. Dollar sign (\$) problems should be answered to the exact cent, but plus or minus one cent error is permitted. Answers must be in fixed notation. The decimal point and cents are required for exact-dollar answers.

2022 - 2023 UIL MS Calculator Test C

23Z-1. 719 - 1760 ----- 1=_____

23Z-2. 23 + 59 - 38 ------ 2=_____

23Z-4. $21 - \pi + 23 - 17$ ----- 4=

23Z-5. 6460 + 3540 - 4750 - 3510 ------ 5=____

23Z-6. -274 - 226 - 347 + 260 + 134 ------ 6=____

23Z-7. $(0.466 - 0.931) + (0.625 - 1.64 - \pi)$ ----- 7=

23Z-9. 77.3 x 301 x 258 ------ 9=_____

23Z-10. 133 x 109 x 735 x 764 ----- 10=_____

23Z-11. What is the result of adding pi and -2.3 and then multiplying that sum by -7190?----- 11=______

23Z-13. How much fuel do I buy with \$50 if the cost of fuel is \$4.089 per gallon of fuel ?------ 13= gal

23Z-14.	(39)[95 x 85/142]	 14=

23Z-16.
$$\{198/367\}\left[\frac{98}{272+381}\right]$$
 ------ $16=$

23Z-17.
$$\left[\frac{279}{200}\right]$$
 [(69/344) + 0.0869] ------ 17=_____

23Z-20.
$$\frac{(\pi)(13/37)(8/30)}{423}$$
 ------ 20=_____

23Z-22.
$$\frac{(\pi)(237/386)(309/308)}{(221/432)}$$
 ------ 22=_____

23Z-23.
$$\left\lceil \frac{2480 + 1560}{3280 - 2200} \right\rceil \left\lceil \frac{2490}{1630} \right\rceil - \dots 23 = \dots 23 = \dots$$

- 23Z-24. To earn money for upcoming college expenses, Morgan works as a waitress at a local restaurant for 4 hours per night, Tuesday through Sunday. If she was paid \$4.15 per hour and earned on average \$33 per night in tips, what was her total weekly earnings?------ 24=\$
- 23Z-25. Fazy, Goldie, and Patches, our three cats, each consume 0.75 pounds of cat food each day. How much cat food do they eat all together during the months of June, July, and August? ----- 25= <u>Lbs.</u>

Page 23Z-3

23Z-30.
$$\frac{1}{-269} + \frac{1}{(3130 - 3220)}$$
 ----- 30=____

23Z-31.
$$\frac{(5.66 + 40.2)}{(5.10 \times 10^{11})}$$
 ------ 31=____

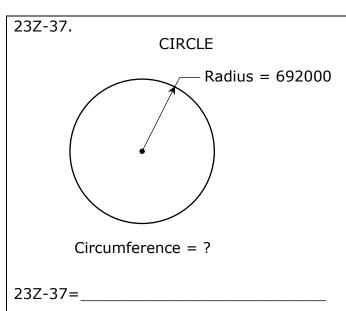
23Z-32.
$$[5.55]$$
 $\left[\frac{1/76.5}{1/44.8}\right]$ ----- 32=____

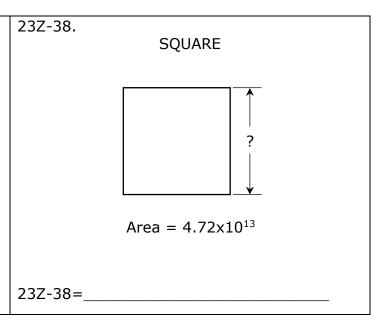
23Z-33.
$$\left[\frac{1/171}{1/142}\right]$$
 + [0.35] ----- 33=____

23Z-34.
$$\left[\frac{1/69.5}{1/28.6}\right]$$
[1.00x10⁵] ------ 34=____

23Z-35. If a quarter is 24.26 millimeters wide, what is the least number of quarters that can be laid side by side in a line to reach a length of one yard? (Remember 1 inch = 2.54 centimeters)----- 35= (integer)

23Z–36. The average daily amount of rainfall for the month of April in Dallas is 0.43". If it rained 2.05" on April 10th, 2.88" on April 19th and 4.02" on April 25th, how much does it need to rain on the last day of April to reach that average daily rainfall amount for the month? ------ 36=______





Page 23Z-4

23Z-40.
$$(184 + 117)^2(9.28 + 35.1)^2$$
 ----- $40 =$

23Z-41.
$$\sqrt{\frac{480 + 117}{0.29 - 0.225}}$$
 ----- 41=____

23Z-42.
$$\sqrt{168-79+109}-\sqrt{110}$$
 ------ 42=_____

23Z-43.
$$\sqrt{215} + \sqrt{308 + 262} - (\pi)\sqrt{43.2}$$
 ----- 43=_____

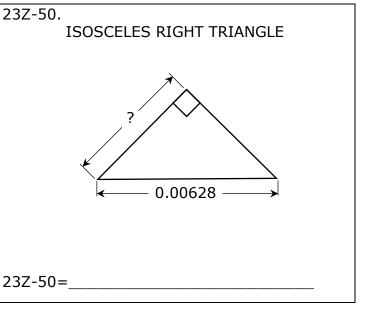
23Z-44.
$$(1/\pi)\sqrt[3]{\frac{0.0368 + 0.021}{0.264 - 0.0945}}$$
 ----- 44=_____

23Z-45.
$$\left[\sqrt{(2100/890)(17.1)}\right]^4$$
 ------ 45=_____

23Z-46.
$$\sqrt[4]{16.4 - 545/224} + 1/\sqrt{6.97 \times 10^{-6} + 8.37 \times 10^{-6}}$$
 ----- 46=_____

23Z-48. The hands of a clock measured 24.3 cm and 16.5 cm. At 3:00 o'clock, what is the distance between the tips of the hands?----- 48= ______ cm

23Z-49. RIGHT TRIANGLE 79.6 ? 46 23Z-49=



23Z-51.
$$\left[\frac{70.1 + 30.1 + \sqrt{7970 + 1760}}{252/291} \right]^{4} - \dots 51 = \dots 51 = \dots$$

23Z-52.
$$\frac{\sqrt{7.74 + \pi + 1.58}}{(24.1 - 80.7 + 67.4)^2}$$
 ------ 52=_____

23Z-53.
$$\left[\frac{2920 - 2430 + \sqrt{2.28 \times 10^8 / 1230}}{-4380 + 6540} \right]^5 ----- 53 = \underline{ }$$

23Z-54.
$$\sqrt{\frac{(6.03 \times 10^5)(24000)}{(56900)(63100)}} - 1.43 + 1.88 ------ 54=$$

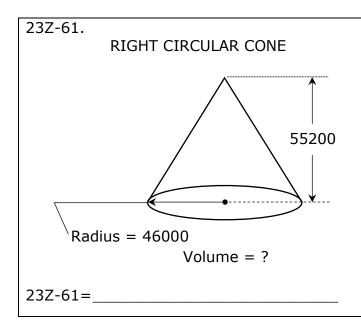
23Z-55.
$$(1630)(4.36x10^7)^{1/2} - [(6.46x10^{13})(3.72x10^{14})]^{1/4} --- 55=$$

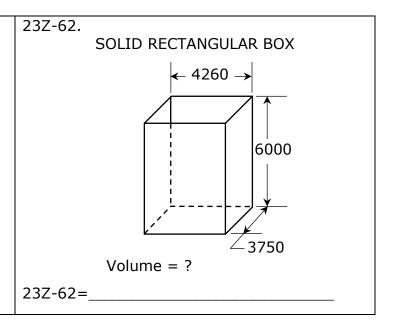
23Z-56.
$$34500 + \sqrt{(37200)(34200)} - (41100 + 6790)$$
 ----- 56=_____

23Z-57.
$$\sqrt{\frac{1/(101-33.7)}{(205)(18.6+39.5)^{-5}}}$$
 ------ 57=_____

23Z-58.
$$\sqrt{\frac{(22.8)(63.8)}{(13.3) + (22.4)}} + 1/(0.156)^{1}$$
 ------ 58=_____

23Z-59. On a particular day the money exchange rate for the Mexican Peso to the US Dollar was 20.4344 Pesos to 1 US Dollar, while the Australian Dollar (AUD) to Mexican Peso rate was 14.0515 Mexican Pesos to 1 Australian Dollar. If Mrs. Pena converted \$250 to Pesos and converted her Pesos in Sidney, Australia to Australian Dollars, how many Australian Dollars did she get to spend in Sidney for birthday gifts?---- 59= AUD

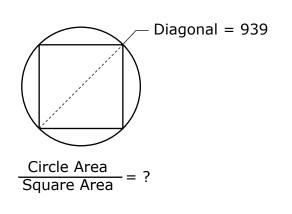




23Z-72. If a number squared minus two and a half times that same number is 5.3, what is that number if it is positive?----- 72=______

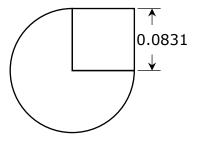
23Z-73.

CIRCUMSCRIBED SQUARE AND CIRCLE



23Z-74.

THREE-QUARTERS CIRCLE AND SQUARE



Total Area = ?

23Z-76.
$$Ln \left[\frac{69.8 + 69.5 + 36.4}{735 + 396 - 162} \right]$$
 ----- 76=_____

23Z-77.
$$(26800)10^{(0.631)(\pi)}$$
 ----- 77=____

23Z-78.
$$\frac{\text{Log}[578 + (135)(5.26)]}{2.77 + \text{Log}[7770 + 8060]}$$
 ----- 78=____

23Z-80.
$$(0.27) - \frac{(0.27)^2}{2} + \frac{(0.27)^3}{3} - \frac{(0.27)^4}{4} - \dots 80 = \dots$$

2022 – 2023 UIL MS Calculator Test C Answer Key

23Z-1	= -1040 = -1.04x10 ³	23Z-14	$= 2220$ $= 2.22 \times 10^{3}$	23Z-27	$= -776$ $= -7.76 \times 10^{2}$
23Z-2	= 44.0 = 4.40×10^{1}	23Z-15	$= -4.60 \times 10^{-5}$	23Z-28	$= 1.02 \times 10^{-10}$
23Z-3	$= 104$ $= 1.04 \times 10^{2}$	23Z-16	$= 0.0810$ $= 8.10 \times 10^{-2}$	23Z-29	$= 0.00572$ $= 5.72 \times 10^{-3}$
23Z-4	= 23.9 = 2.39×10^{1}	23Z-17	$= 0.401$ $= 4.01 \times 10^{-1}$	23Z-30	$= -0.0148$ $= -1.48 \times 10^{-2}$
23Z-5	= 1740 = 1.74×10 ³	23Z-18	$= 1.27$ $= 1.27 \times 10^{0}$	23Z-31	$= 8.99 \times 10^{-11}$
23Z-6	$= -453$ $= -4.53 \times 10^{2}$	23Z-19	= -11.3 = -1.13×10^{1}	23Z-32	$= 3.25$ $= 3.25 \times 10^{0}$
23Z-7	= -4.62	23Z-20	$= 0.000696$ $= 6.96 \times 10^{-4}$	23Z-33	$= 1.18$ $= 1.18 \times 10^{0}$
23Z-8	$= -4.62 \times 10^{0}$ $= -2.55$ $= -2.55 \times 10^{0}$	23Z-21	$= 0.0503$ $= 5.03 \times 10^{-2}$	23Z-34	= 41200 = 4.12×10^4
23Z-9	$= -2.53 \times 10^{6}$	23Z-22	$= 3.78$ $= 3.78 \times 10^{0}$	23Z-35	= 38 Integer Answer
23Z-10	= 8.14x10 ⁹	23Z-23	$= 5.71$ $= 5.71 \times 10^{0}$	23Z-36	= 4.09 = 4.09×10^0
23Z-11	= -6050 = -6.05×10^3	23Z-24	= 297.60 Dollar Answer	23Z-37	$= 4.35 \times 10^6$
23Z-12	= 9310.00 Dollar Answer	23Z-25	= 207 = 2.07×10^2	23Z-38	$= 6.87 \times 10^6$
23Z-13	$= 12.2$ $= 1.22 \times 10^{1}$	23Z-26	= 42.9 = 4.29×10^{1}		

2022 – 2023 UIL MS Calculator Test C Answer Key

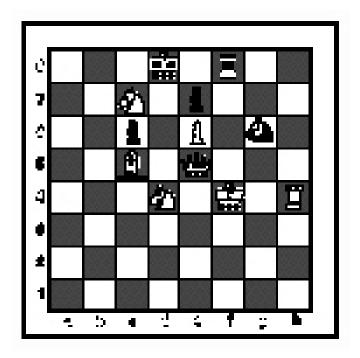
$= 9.00 \times 10^{10}$					23Z-73	= 1.57 $= 1.57 \times 10^{0}$
	23Z-52	$= 0.0303$ $= 3.03 \times 10^{-2}$	23Z-62	$= 9.59 \times 10^{10}$	23Z-74	= 0.0232
	23Z-53	= 0.0141	23Z-63	$= 1.57 \times 10^{-7}$		$= 2.32 \times 10^{-2}$
= 3.58		$= 1.41 \times 10^{-2}$	23Z-64		23Z-75	$= 0.270$ $= 2.70 \times 10^{-1}$
$= 3.58 \times 10^{0}$	23Z-54	_			23Z-76	= -1.71
= 17.9	227.55	_				$= -1.71 \times 10^{0}$
			232-66	= 2.46 = 2.46×10^0	23Z-77	$= 2.57 \times 10^6$
= 0.222 = 2.22×10^{-1}	232-30	= 22300 $= 2.23 \times 10^4$	23Z-67		23Z-78	= 0.446
= 1630	23Z-57	_		$= -1.21 \times 10^{0}$	227.70	$= 4.46 \times 10^{-1}$
			23Z-68	_	232-79	= 66600 $= 6.66 \times 10^4$
	23Z-58		23Z-69		23Z-80	
= 6.96				$= -3.34 \times 10^{0}$		$= 2.39 \times 10^{-1}$
$= 6.96 \times 10^{0}$	23Z-59	_	23Z-70	_		
= 29.4		310 1/12	227 71			
$= 2.94 \times 10$ = 65.0	23Z-60		232-71	= 29.6 = 2.96×10^{1}		
$= 6.50 \times 10^{1}$		- 4.JJX10	23Z-72	_		
$= 0.00444$ $= 4.44 \times 10^{-3}$				$= 3.87 \times 10^{U}$		
	$= 1.78 \times 10^{8}$ $= 95.8$ $= 9.58 \times 10^{1}$ $= 3.58$ $= 3.58 \times 10^{0}$ $= 17.9$ $= 1.79 \times 10^{1}$ $= 0.222$ $= 2.22 \times 10^{-1}$ $= 1630$ $= 1.63 \times 10^{3}$ $= 257$ $= 2.57 \times 10^{2}$ $= 6.96$ $= 6.96 \times 10^{0}$ $= 29.4$ $= 2.94 \times 10^{1}$ $= 65.0$ $= 6.50 \times 10^{1}$ $= 0.00444$	$= 1.78 \times 10^{8}$ $= 95.8$ $= 9.58 \times 10^{1}$ $= 3.58$ $= 3.58 \times 10^{0}$ $= 17.9$ $= 1.79 \times 10^{1}$ $= 0.222$ $= 2.22 \times 10^{-1}$ $= 1630$ $= 1.63 \times 10^{3}$ $= 257$ $= 2.57 \times 10^{2}$ $= 6.96$ $= 6.96 \times 10^{0}$ $= 29.4$ $= 2.94 \times 10^{1}$ $= 65.0$ $= 6.50 \times 10^{1}$ $= 0.00444$	$= 1.78 \times 10^{8}$ $= 95.8$ $= 9.58 \times 10^{1}$ $= 3.58$ $= 3.58 \times 10^{0}$ $= 17.9$ $= 1.79 \times 10^{1}$ $= 0.222$ $= 2.22 \times 10^{-1}$ $= 1630$ $= 163 \times 10^{3}$ $= 257$ $= 2.57 \times 10^{2}$ $= 6.96$ $= 6.96 \times 10^{0}$ $= 2.94$ $= 2.94 \times 10^{1}$ $= 65.0$ $= 6.50 \times 10^{1}$ $= 0.00444$ $= 232 - 52$ $= 0.0303$ $= 3.03 \times 10^{-2}$ $= 2.46 \times 10^{0}$ $= 2.46 \times 10^{0}$ $= 2.46 \times 10^{0}$ $= 2.46 \times 10^{0}$ $= 2.23 \times 10^{6}$ $= 2.23 \times 10^{4}$ $= 2.19 \times 10^{2}$ $= 3.64 \times 10^{2}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

						CON	TEST	ANT N	UMBE	R:	
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/Initials				University Interscholastic League							
Paper	s conte	ending to	place:		A		-				ver Sheet
	/	I	nitials								
Write your contestant number in the upper right corner, and circle your grade below.											
		Circ	le Gra	ide Level:	2	3	4	5	6	7	8
Test (circle only one answer for each question)											
1.	а	b	С	d		11.	а	b	С	d	
2.	a	b	С	d		12.	а	b	С	d	
3.	а	b	С	d		13.	а	b	С	d	
4.	а	b	С	d		14.	а	b	С	d	
5.	а	b	С	d		15.	а	b	С	d	
6.	а	b	С	d		16.	а	b	С	d	
7.	a	b	С	d		17.	а	b	С	d	
8.	а	b	С	d		18.	а	b	С	d	Questions #17- 20
9.	а	b	С	d		19.	а	b	С	d	only for Grades 4-8
10.	а	b	С	d		20.	а	b	С	d	
Tiebreaker (circle only one answer for each question)											
1.	а	b	С	d		5.	а	b	С	d	
2.	а	b	С	d		6.	а	b	С	d	
3.	а	b	С	d		7.	а	b	С	d	
4.	а	b	С	d		8.	а	b	С	d	

INVITATIONAL 2022-2023

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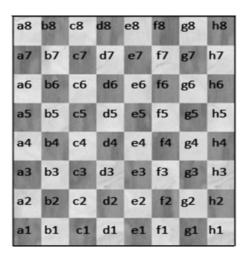
Chess Puzzle Solving

grades 6, 7, 8

DO NOT OPEN TEST UNTIL TOLD TO DO SO

How to read and answer questions on this test

- To answer the questions on this test, you'll need to know how to read chess moves. It's simple to do.
- Every square on the board has an "address" made up of a letter and a number.

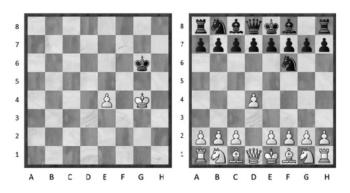


Piece Names	Each chessman car also be represented by a symbol, except for the pawn. (Figurine Notation)
King	
Queen	&
Rook	Ï
Bishop	A
Knight	2
Pawn	a-h (We write the file it's on.)

- To make them easy to read, the questions on this test use the figurine piece symbols on the right, above.
- When answering the puzzle questions, remember that white pawns move "up" the diagrams. Black pawns move "down" the diagrams.

At right are two sample moves.

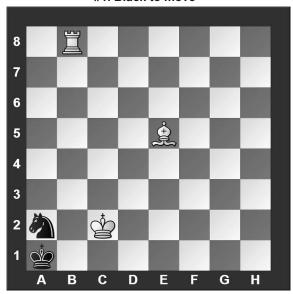
If you look closely at the diagrams in the questions below, you'll see that the frame around the diagram labels the ranks (1-8) and files (a-h) to help you.



White has just played **e4**.

Black has just played ... Nf6.

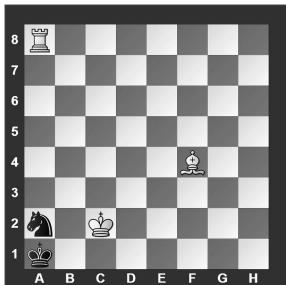
#1. Black to move



What term best describes this situation?

- a) Black is in checkmate.
- b) Black is in stalemate.
- c) Black is in check.
- d) None of the above.

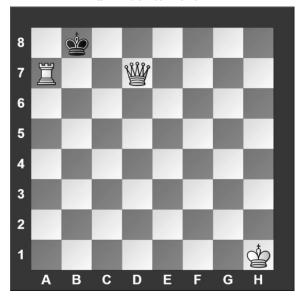
#3. Black to move



What term best describes this situation?

- a) Black is in checkmate.
- b) Black is in stalemate.
- c) Black is in check.
- d) None of the above.

#2. Black to move



What term best describes this situation?

- a) Black is in checkmate.
- b) Black is in stalemate.
- c) Black is in check.
- d) None of the above.

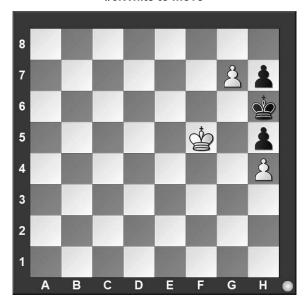
#4.



Black just played c7 to c5. Which pawn can be captured?

- a) Black's b-pawn
- b) Black's d-pawn
- c) Black's c-pawn
- d) All of the above

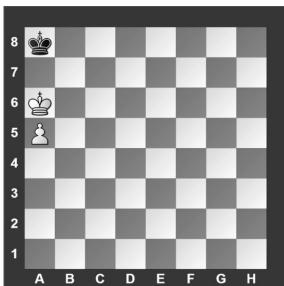
#5.White to move



What piece should White promote to?

- a) Queen
- b) Rook
- c) Bishop
- d) Knight

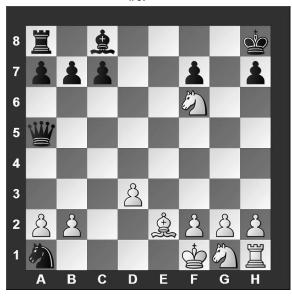
#7. White to move



What is the outcome of the game?

- a) White wins
- b) Black wins
- c) Draw
- d) Impossible to tell

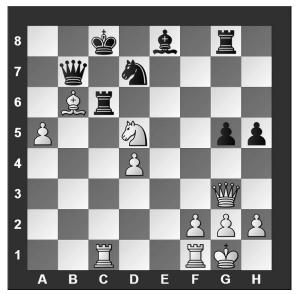
#6.



Which side has material advantage?

- a) White
- b) Black
- c) It's even.
- d) It's not possible to tell without knowing who is to move.

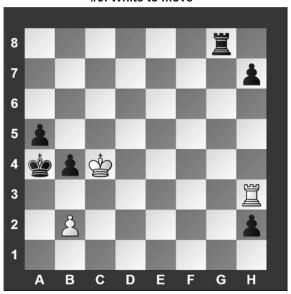
#8. White to move



What is White's best move?

- a) **₩c7**
- b) 買×c6
- c) 2 e7
- d) 🖐 b8

#9. White to move



White can checkmate Black in two moves, what's the *first* move?

- a) **b**3
- c) 🗒 a 3

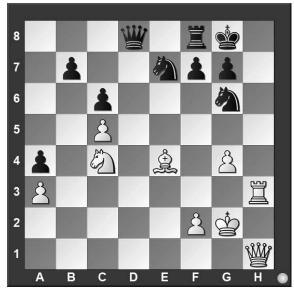
#11. White to move



What is White's best move?

- a) ②×e4
- b) 2 c4
- d) **公b3**

#10. White to move



If White can checkmate Black in two moves, what is the first move?

- a) **閏h8**
- b) 買d3
- c) 🚨 × g6
- d) **②e5**

#12. White to move



What is White's best move?

- a) **g1**
- b) 🗸 × d8
- c) 營×g4
- d) 🕸 g3

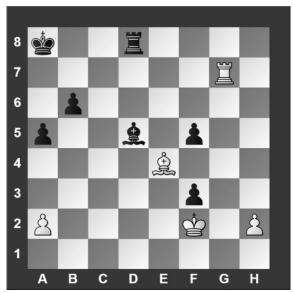
#13. White to move



What piece should White capture?

- a) Queen.
- b) Rook.
- c) Knight.
- d) Pawn.

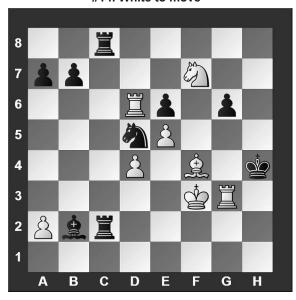
#15. White to move



What is White's best move?

- a) 🗸 × d5
- b) 🗸 × f5
- c) **罩g8**
- d) 🖺 × f3

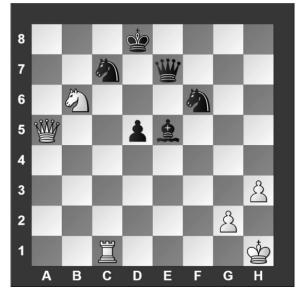
#14. White to move



If White can checkmate Black in two moves, what's the first move?

- a) 買h3
- b) **買g4**
- c) Ag5

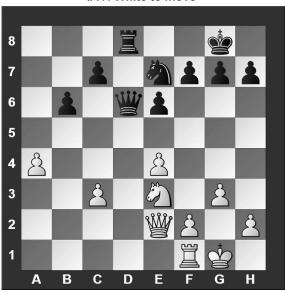
#16. White to move



White can checkmate Black in two moves, what is the *first* move?

- a) 公×d5
- b) **₩a8**
- d) **₩×d5**

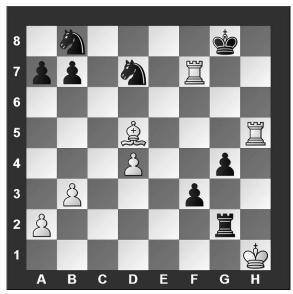
#17. White to move



What is White's best move?

- a) e5
- b) 2 c4
- c) 罩d1
- d) **g2**

#19. White to move



If White can checkmate Black in two moves, what's the first move?

- a) 買h8
- b) 買**f8**
- c) 買×d7
- d) 🖺 × f3

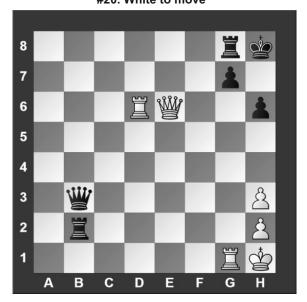
#18. White to move



How many moves does it take to checkmate Black?

- a) 1
- b) 2
- c) 3
- d) There is no checkmate

#20. White to move



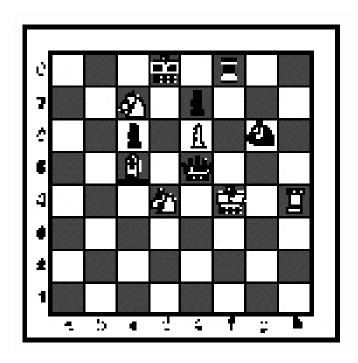
If White can checkmate Black in two moves, what's the *first* move?

- a) **≝**×**g8**
- c) **쌀×h6**
- d) **₩g6**

INVITATIONAL 2022-2023

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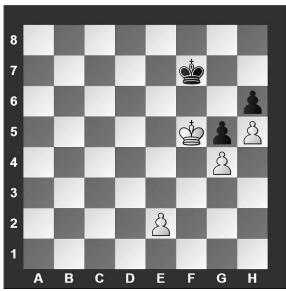




Chess Puzzle Solving TIEBREAKER - ALL GRADES

DO NOT OPEN TEST
UNTIL TOLD TO DO SO

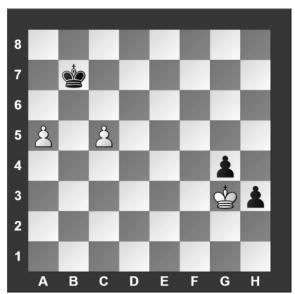
#1. White to move



What should be the outcome of the game?

- a) White wins.
- b) Black wins.
- c) Draw.
- d) It is not possible to tell.

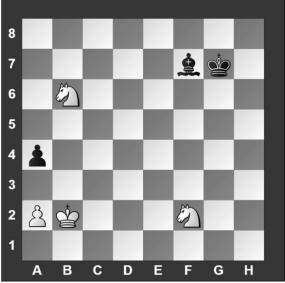
#3. White to move



With the best play, what is the outcome of the game?

- a) White wins.
- b) Black wins.
- c) Draw.
- d) It is not possible to tell.

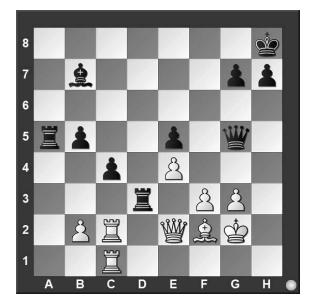
#2. White to move



What is White's best move?

- a) a3
- b) ②×a4
- c) 🕸 a 3
- d) 2 e4

#4. White to move



What is White's best move?

- a) 買**d1**
- b) \\dot{\psi} × d3
- c) **b4**
- d) **Ab6**

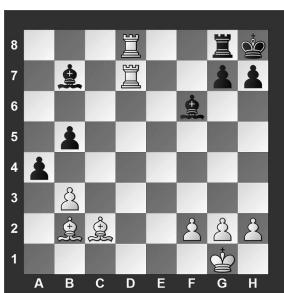
#5. White to move



What is White's best move?

- a) **23g**6
- b) **公d5**
- c) <u>A</u>×**b5**
- d) 公c6

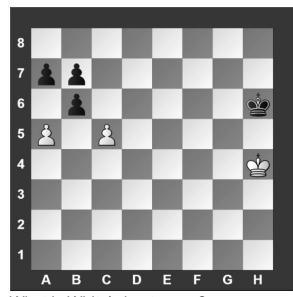
#7. White to move



If White can checkmate Black in two moves, what is White's first move?

- d) 🚨 × f6

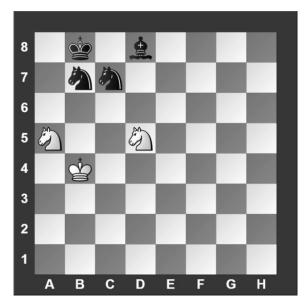
#6. White to move



What is White's best move?

- a) c6
- b) $c \times b6$
- c) a×b6
- d) a6

#8. White to move



With the best play, what is the outcome of the game?

- a) White wins.
- b) Black wins.
- c) Draw.
- d) It is not possible to tell.

UÎL

University Interscholastic League A+ Chess Puzzle Contest 2022-2023 Invitational — Grades 6, 7, and 8 ANSWER KEY

<u>Test</u>

1. C 11. B 2. B 12. C 3. B 13. A 4. C 14. C 5. D 15. C 6. B 16. B 7. C 17. C 8. C 18. A 9. C 19. C 10.A 20. C

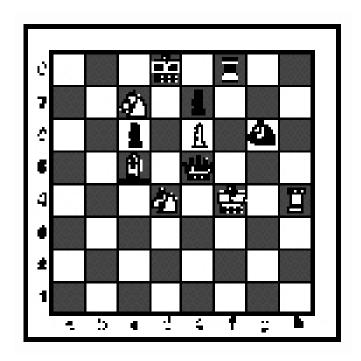
<u>Tiebreaker</u>

1. A	5. A
2. A	6. D
3. C	7. D
4. B	8. A

FALL/WINTER DISTRICT 2022-2023

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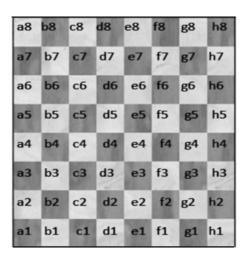
Chess Puzzle Solving

grades 6, 7, 8

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- Every square on the board has an "address" made up of a letter and a number.

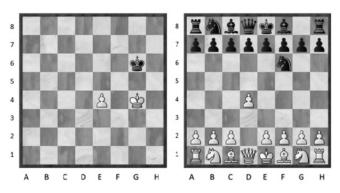


Piece Names	Each chessman car also be represented by a symbol, except for the pawn. (Figurine Notation)
King	
Queen	8
Rook	Ħ
Bishop	Q
Knight	4
Pawn	a-h (We write the file it's on.)

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At right are two sample moves.

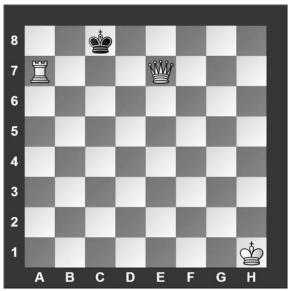
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White has just played **e4**.

Black has just played ... Nf6.

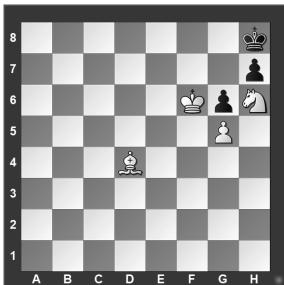
#1. Black to move



What term best describes this situation?

- a) Black is in checkmate.
- b) Black is in stalemate.
- c) Black is in check.
- d) None of the above.

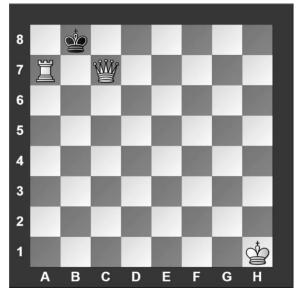
#3. Black to move



What term best describes this situation?

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- c) Black is in check.
- d) None of the above.

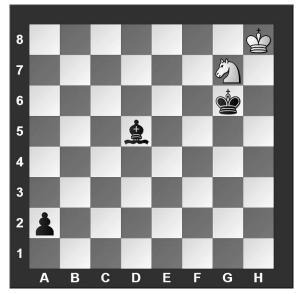
#2. Black to move



What term best describes this situation?

- a) Black is in checkmate.
- b) Black is in stalemate.
- c) Black is in check.
- d) None of the above.

#4. Black to move



What piece should Black promote to?

- a) Bishop.
- b) Queen.
- c) Knight.
- d) Rook.

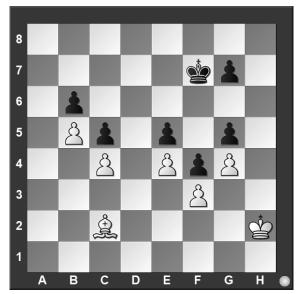
#5. White to move



Which side has material advantage?

- a) White.
- b) Black.
- c) It is even.
- d) It is not possible to tell.

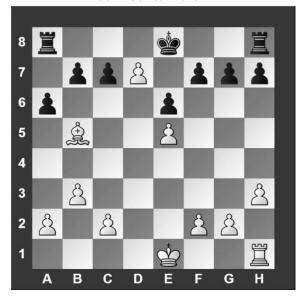
#7. White to move



What is the outcome of the game?

- a) White wins.
- b) Black wins.
- c) Draw.
- d) It is not possible to tell.

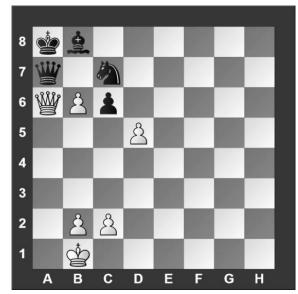
#6. Black to move



Which move is possible for Black?

- a) Short Castle.
- b) Long Castle.
- c) Both A and B.
- d) Neither A or B.

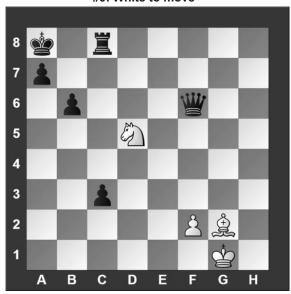
#8. White to move



What is White's best move?

- a) **b**×a7
- b) $b \times c7$
- c) "xa7
- d) **b**7

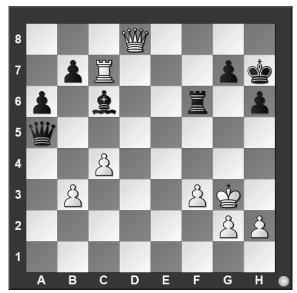
#9. White to move



White can checkmate Black in two moves, what is the *first* move?

- a) ②×f6
- b) 公×b6
- c) 2 c7
- d) **公b4**

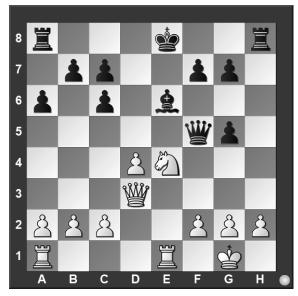
#11. White to move



What is White's best move?

- a) **₩e7**
- b) **₩×f6**
- d) 置c8

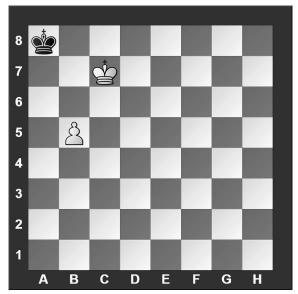
#10. White to move



What is White's best move?

- a) **公d6**
- b) **公f6**
- c) 🗳 g3
- d) **c4**

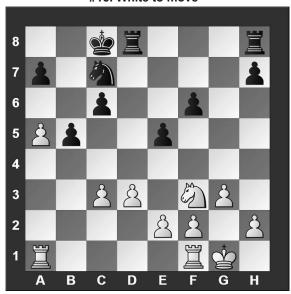
#12. White to move



What is White's best move?

- a) **\$b6**
- b) **b6**
- c) 🕸 d8
- d) 🕸 d7

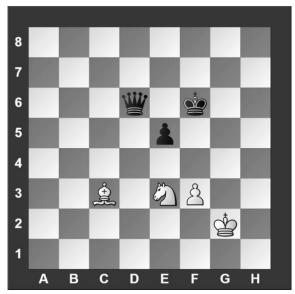
#13. White to move



Black just played b7 to b5. Which pawn can be captured?

- a) Black's a-pawn.
- b) Black's f-pawn.
- c) Black's h-pawn.
- d) Black's b-pawn.

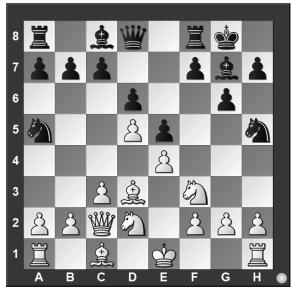
#15. White to move



What is White's best move?

- a) 2 g4
- b) **≜**×e5
- c) f4
- d) 2 c4

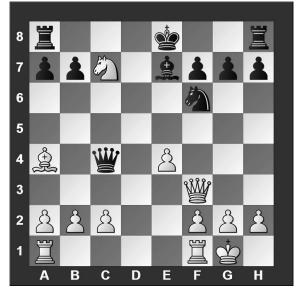
#14. White to move



What is White's best move?

- a) 0-0
- b) **g3**
- c) 2 c4
- d) **b4**

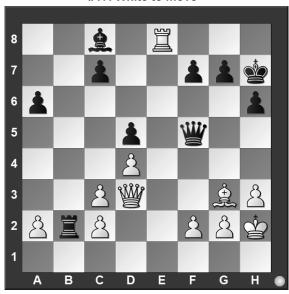
#16. Black to move



What move below is possible for Black?

- a) Short Castle.
- b) Long Castle.
- c) To capture the bishop.
- d) None of the above.

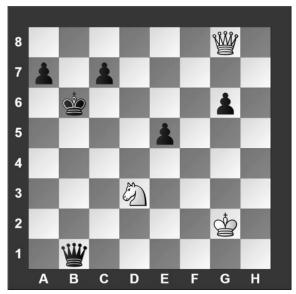
#17. White to move



What is White's best move?

- a) 買e7
- c) " ×f5
- d) a4

#19. White to move



What is White's best move?

- a) **₩b8**
- b) **₩e6**
- c) ∰×g6
- d) 公×e5

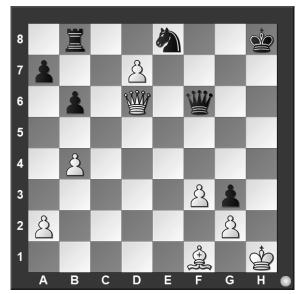
#18. White to move



What is White's best move?

- a) **\$f1**
- b) **₩×h6**
- c) **\$h2**
- d) **置bf1**

#20. White to move



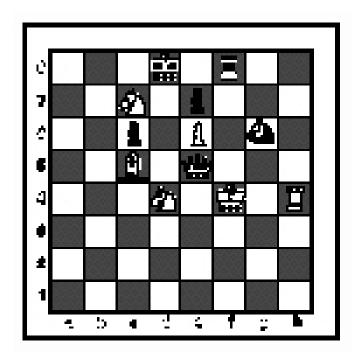
What piece should White capture?

- a) Queen
- b) Rook
- c) Knight
- d) pawn

FALL/WINTER DISTRICT 2022-2023

A+ ACADEMICS

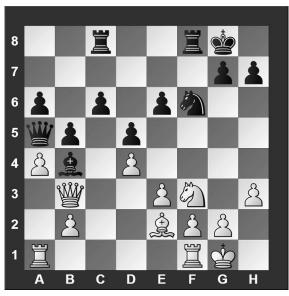




Chess Puzzle Solving TIEBREAKER - ALL GRADES

DO NOT OPEN TEST
UNTIL TOLD TO DO SO

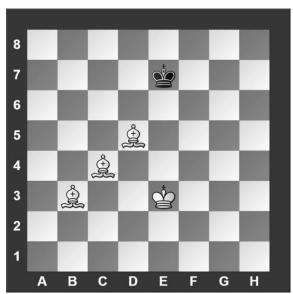
#1. White to move



What is White's best move?

- a) 🗸 × b5
- b) a×b5
- c) \\delta × d5
- d) **②e5**

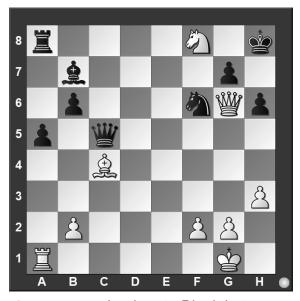
#3. White to move



What should be the outcome of the game?

- a) White wins.
- b) Black wins.
- c) Draw.
- d) It is not possible to tell.

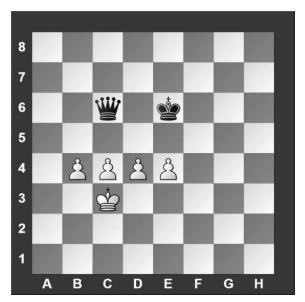
#2. White to move



If White can checkmate Black in two moves, what's the *first* move?

- a) 2 e6
- b) 쌀×**g**7
- c) **%h7**
- d) Ad3

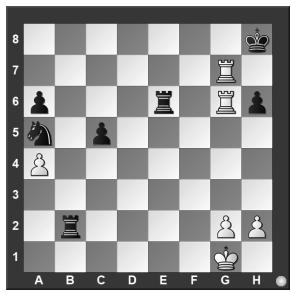
#4. White to move



What is White's best move?

- a) **b5**
- b) c5
- c) d5
- d) e5

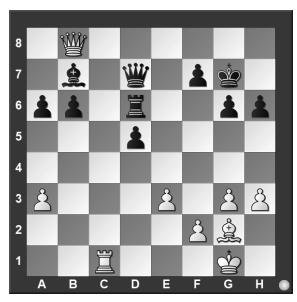
#5. White to move



How many moves does it take to checkmate Black?

- a) 1
- b) 2
- c) 3
- d) There is no checkmate

#7. White to move



What is White's best move?

- a) 置c7
- b) **h**4
- c) ₩c7
- d) Af3

#6. White to move



If White can force checkmate in three moves, what is the last move?

- a) **公f6**
- b) **公b6**
- d) 買a8

#8. White to move



If White can checkmate Black in two moves, what is White's second move?

- a) **₩**×**b**7

- d) **鼻×b7**

IJŤL

University Interscholastic League A+ Chess Puzzle Contest 2022-2023 Fall/Winter — Grades 6, 7, and 8 ANSWER KEY

<u>Test</u>

1. D 11. C 2. A 12. A 3. B 13. D 4. D 14. D 5. A 15. B 6. D 16. D 7. C 17. B 8. D 18. B 9. C 19. A

10. A

Tiebreaker

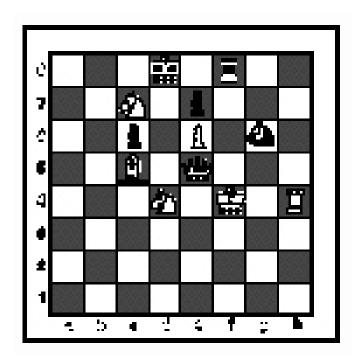
20. C

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SPRING DISTRICT 2022-2023

A+ ACADEMICS





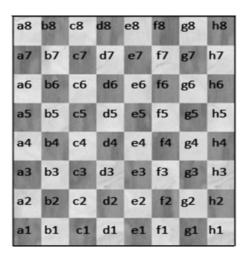
Chess Puzzle Solving

grades 6, 7, 8

DO NOT OPEN TEST UNTIL TOLD TO DO SO

How to read and answer questions on this test

- To answer the questions on this test, you'll need to know how to read chess moves. It's simple to do.
- Every square on the board has an "address" made up of a letter and a number.

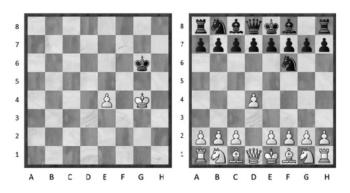


Piece Names	Each chessman can also be represented by a symbol, except for the pawn. (Figurine Notation)
King	
Queen	&
Rook	Ï
Bishop	Ä
Knight	2
Pawn	a-h (We write the file it's on.)

- To make them easy to read, the questions on this test use the figurine piece symbols on the right, above.
- When answering the puzzle questions, remember that white pawns move "up" the diagrams. Black pawns move "down" the diagrams.

At right are two sample moves.

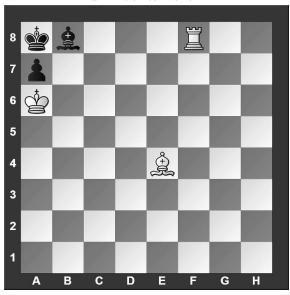
If you look closely at the diagrams in the questions below, you'll see that the frame around the diagram labels the ranks (1-8) and files (a-h) to help you.



White has just played **e4**.

Black has just played ... 4 f6

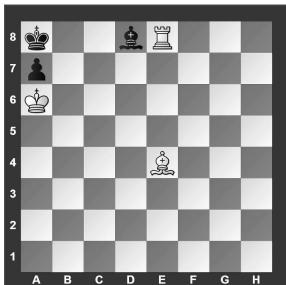
#1. Black to move



What term best describes this situation?

- a) Black is in checkmate.
- b) Black is in stalemate.
- c) Black is in check.
- d) None of the above.

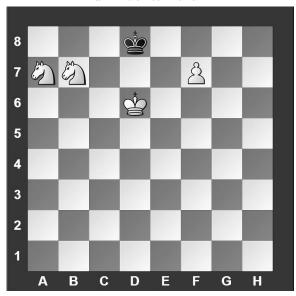
#3. Black to move



What term best describes this situation?

- a) Black is in checkmate.
- b) Black is in stalemate.
- c) Black is in check.
- d) None of the above.

#2. Black to move



What term best describes this situation?

- a) Black is in checkmate.
- b) Black is in stalemate.
- c) Black is in check.
- d) None of the above.

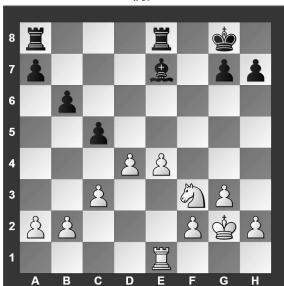
#4. White to move



Black just played e7 to e5. Which pawn can be captured?

- a) Black's b-pawn
- b) Black's d-pawn
- c) Black's c-pawn
- d) Black's e-pawn

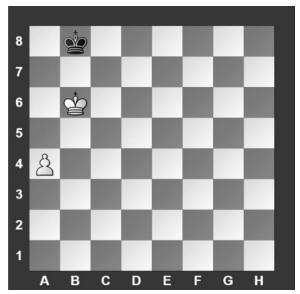
#5.



Which side has material advantage?

- a) White
- b) It is even.
- c) Black
- d) It is not possible to tell.

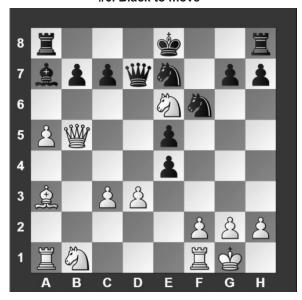
#7. White to move



With the best play, what is the outcome of the game?

- a) White wins
- b) Black wins
- c) Draw
- d) Impossible to tell

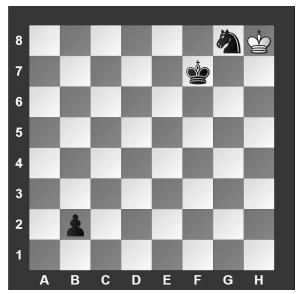
#6. Black to move



Which move is possible for Black?

- a) Short Castle.
- b) Long Castle.
- c) Take White's Queen
- d) Take White's Knight

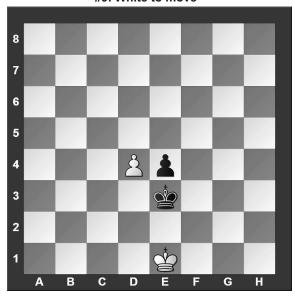
#8. Black to move



What is the best move?

- a) Promote to a Queen
- b) Promote to a Rook
- c) Promote to a Knight
- d) Promote to a Bishop

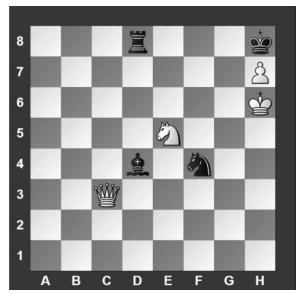
#9. White to move



What is the outcome of the game?

- a) Black wins.
- b) White wins.
- c) It is a draw.
- d) It is not possible to tell.

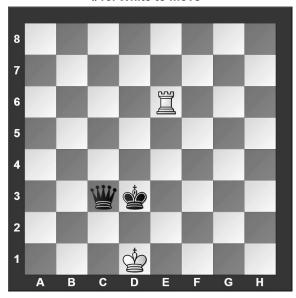
#11. White to move



What is White's best move?

- a) 🛭 g6
- b) **公f7**
- c) 🗳 g3
- d) **₩e3**

#10. White to move



What is White's best move?

- a) 罩d6
- b) 買e3
- c) 置c6
- d) **営e2**

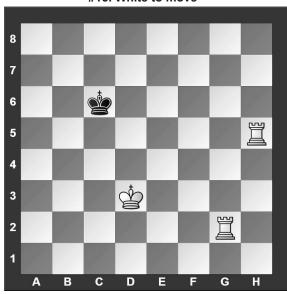
#12. White to move



What piece should White capture?

- a) Black's Knight
- b) Black's Queen
- c) Black's Bishop
- d) Black's Pawn

#13. White to move



How many moves should it take to checkmate Black in this position?

- a) One move.
- b) Two moves.
- c) Three moves.
- d) Four moves.

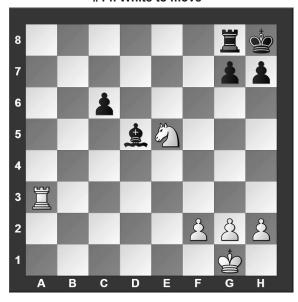
#15. White to move



What is White's best move?

- a) $f \times e7$
- b) 公×c7
- c) f7
- d) $g \times f4$

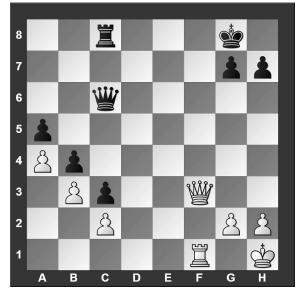
#14. White to move



What is White's best move?

- a) 🖸 g6
- b) 公×c6
- c) **閏h3**
- d) f4

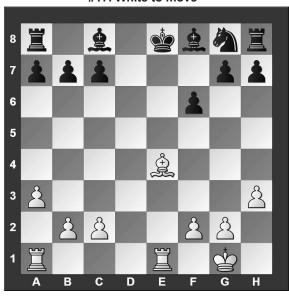
#16. White to move



If White can checkmate Black in three moves, what's the first move?

- a) ∰×c6
- b) 쌀×**c**3
- c) #f8
- d) **쌀f7**

#17. White to move



If White can checkmate Black in two moves, what's the first move?

- a) Ag6
- b) Ac6
- c) <u>@</u>×**h**7
- d) 🚨 × b7

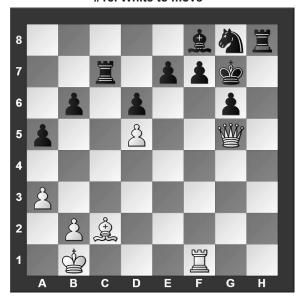
#19. White to move



What is White's best move?

- a) 2 e4
- b) c3
- c) **公h5**
- d) **f**5

#18. White to move



What is White's best move?

- a) 買×f7
- b) **₩**×**g**6
- c) 🗸 × g6
- d) 👸×e7

#20. White to move



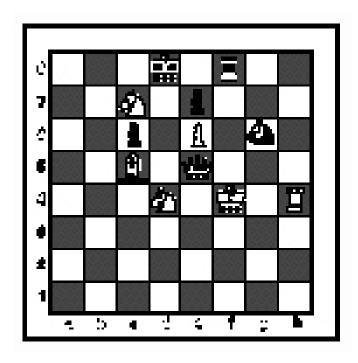
If White can checkmate Black in two moves, what's the *first* move?

- b) 買e7
- c) d7
- d) 🖺 × g4

SPRING DISTRICT 2022-2023

A+ ACADEMICS





Chess Puzzle Solving TIEBREAKER - ALL GRADES

DO NOT OPEN TEST
UNTIL TOLD TO DO SO

IMPORTANT INSTRUCTIONS:

This is the <u>tiebreaker</u> test for all grades for the Spring District UIL Chess Puzzle Solving Test.

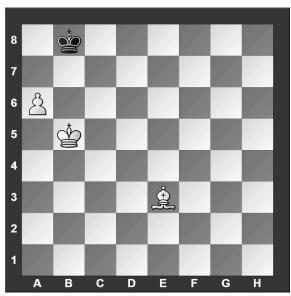
Use the separate answer sheet to write all your answers. You have five (5) minutes to take this part of the test. There are eight (8) questions. Some questions are very difficult.

As before, the symbols for check and checkmate commonly used after moves have been omitted because they would be hints.

Each correct answer earns you one point. There is no penalty for incorrect answers or unanswered questions.

These questions are hard, but the puzzles are interesting! Good luck and have fun!

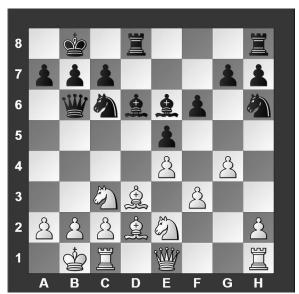
#1. White to move



What should be the outcome of the game?

- a) White wins.
- b) Black wins.
- c) Draw.
- d) It is not possible to tell.

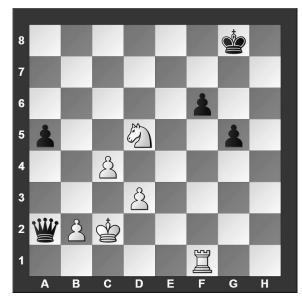
#3. White to move



What is White's best move

- a) **@e3**
- b) **g5**
- c) 2 a4
- d) **公b5**

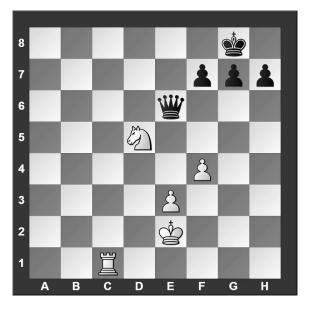
#2. White to move



What is White's best move?

- a) 公×f6
- b) **②e7**
- d) 2 c3

#4. White to move



What is White's best move?

- a) 2 e7
- b) **公f6**
- c) **罩c8**
- d) **f5**

#5. White to move



What is White's best move?

- a) 買f7
- c) 公×c5
- d) 買f4

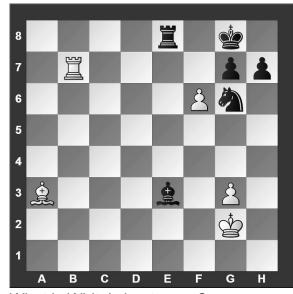
#7. White to move



If White can checkmate Black in two moves, what is White's second move?

- a) ∰×**g**7
- c) ∰×g6
- d) **Ah5**

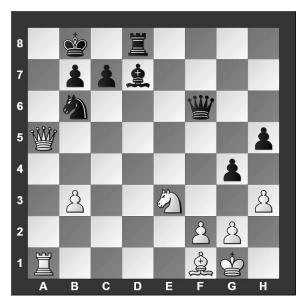
#6. White to move



What is White's best move?

- b) $f \times g7$
- c) f7
- d) 其e7

#8. White to move



If White can force checkmate in three moves, what is White's first move?

- a) **₩a8**
- b) **a7**
- c) ②×g4
- d) $h \times g4$

IJŤL

University Interscholastic League A+ Chess Puzzle Contest 2022-2023 Spring — Grades 6, 7, and 8 ANSWER KEY

<u>Test</u>

1. A 11. B 2. A 12. B 3. C 13. C 4. D 14. A 5. C 15. C 6. C 16. D 7. C 17. B 8. B 18. A 9. B 19. B 10. B 20. B

Tiebreaker

C
 D
 C
 C
 C
 B

CONTESTANT NUMBER:

FOR GRADER USE ONLY Score Test Below: ____out of 120. Initials____ out of 120. Initials___ Papers contending to place: ___out of 120. Initials___

University Interscholastic League A+ Dictionary Skills Contest • Answer Sheet

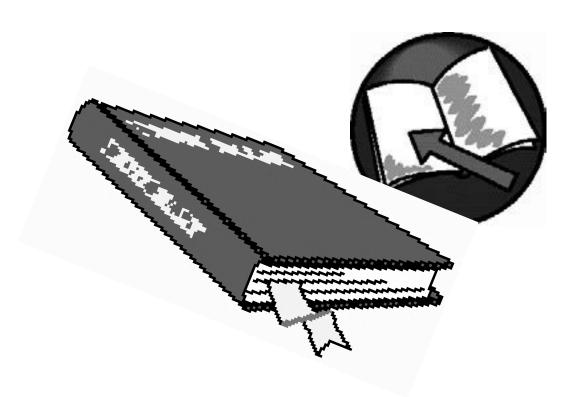
Write your contestant number in the upper right corner, and circle your grade below.

				Circle Grade Level:		5	6	7	8			
1.	A	В	C	D	21.	A	В	C	D			
2.	A	В	C	D	22.	A	В	C	D			
3.	A	В	C	D	23.	A	В	C	D			
4.	A	В	C	D	24.	A	В	C	D			
5.	A	В	C	D	25.	A	В	C	D			
6.	A	В	C	D	26.	A	В	C	D			
7.	A	В	C	D	27.	A	В	C	D			
8.	A	В	C	D	28.	A	В	C	D			
9.	A	В	C	D	29.	A	В	C	D			
10.	A	В	C	D	30.	A	В	C	D			
11.	A	В	C	D	31.	A	В	C	D			
12.	A	В	C	D	32.	A	В	C	D			
13.	A	В	C	D	33.	A	В	C D	E	F	G	Н
14.	A	В	C	D	34.	A	В	C D	E	F	G	Н
15.	A	В	C	D	35.	A	В	C D	E	F	G	Н
16.	A	В	C	D	36.	A	В	C D	E	F	G	Н
17.	A	В	C	D	37.	A	В	C D	E	F	G	Н
18.	A	В	C	D	38.	A	В	C D	E	F	G	Н
19.	A	В	C	D	39.	A	В	C D	E	F	G	Н
20.	A	В	C	D	40.	A	В	C D	E	F	G	Н

INVITATIONAL 2022-2023

A+ ACADEMICS





Dictionary Skills grades 7 & 8

DO NOT OPEN TEST UNTIL TOLD TO DO SO

University Interscholastic League 2022-23 Dictionary Skills Contest Invitational District Test — Grades 7 & 8

1.	One who is fecund is? A. Wealthy B. Fertile	C. Clever D. Vulgar
2.	The word quixotic is derived from the work A. Jane Austen B. Louis Sachar	cs of what author? C. Kurt Vonnegut D. Miguel de Cervantes
3.	A piece of candy could be described as what A. Saccharine B. Sumptuous	nich of the following adjectives? C. Somatic D. Seditious
4.	Katydids produce what kind of sound? A. Song-like B. High-pitched whistle	C. Low rumbling D. Loud and shrill
5.	In croquet, the ball must pass through what A. Hoop B. Arch	at kind of obstacle? C. Goal D. Wicket
6.	Where in the human body would you find to A. Respiratory system B. Circulatory system	the duodenum? C. Digestive system D. Lymphatic system
7.	Which of the following is a type of fruit? A. Zygote B. Kumquat	C. Postillion D. Googol
8.	What is the major difference between mor A. Mammals have fur B. Mammals are warm- blooded	otremes and mammals? C. Mammals give birth to live young D. Mammals have spines
9.	One who is lacking strength may also be of A. Lenient B. Metropolitan	lescribed as? C. Effete D. Gung ho

10. Akkadians lived in what ancient civilization?A. Ancient GreeceB. Mesopotamia	C. Ancient Egypt D. Aztec Empire
11. Which of the following phrases is a tautology? A. Jumbo shrimp B. Eggs in one basket	C. Prepay in advance D. Thin as a rail
12.A joule is a measurement of what? A. Speed B. Length	C. Mass D. Energy
13. Finish the statement: John loved to read; he wasA. VoraciousB. Vainglorious	s a reader. C. Vivacious D. Virulent
14. Jasper is a type of which mineral?A. DiamondB. Garnet	C. Quartz D. Sapphire
15. Which of the following is a synonym of opulence A. Affluence B. Illusory	e? C. Manacle D. Ovarian
16. Nephritis affects which organ in the human body A. Liver B. Appendix	/? C. Kidney D. Spleen
17. Another name for Vitamin B2 is? A. Biotin B. Riboflavin	C. Ascorbic acid D. Retinol
18. Which of the following does NOT mean incipient A. Blossoming B. Nascent	t? C. Growing D. Mature
19. What ancient writing system utilized ideograms?A. Egyptian hieroglyphicsB. Russian Cyrillic	C. Roman Latin D. Danish runes
20. Complete the sentence: The Vice President services Senate. A. Et cetera B. Habeas corpus	ves as president of the C. Ad hominem D. Ex officio

	vehicle to be considered a jalopy, it must be Expensive	<u>C</u> .	? Dilapidated
	Reliable		Modern
22. What A. B.		C. D.	B AB
A.	drine is a medication used to reduce symptor Fever Cough	C.	of? Nasal congestion Nausea
A.	sic, to play a piece fortissimo means to play i Slowly Quickly	C.	? Quietly Loudly
A.	of these is similar in meaning to bad luck? Jinx Junk		Jute Jerk
A.	color is malachite? Blue Red		Yellow Green
A.	does Rh factor affect? Height Blood type		Weight Eye color
A.	of the following is an ancient animal still see Giant sloth Sabre-tooth tiger	C.	oday? Woolly mammoth Coelacanth
A.	kind of location is a grange? Hospital School		Farm Park
A.	ho is a miser is very with their money Generous Frugal	C.	Stingy Reckless
A.	ıll round hill is also known as a? Knoll Inlet		Peninsula Cove

buildings to provide what I A. Wall texture B. Waterproofing	benefit?	C. FireproofingD. Window tinting
 _33. sallow	A. said to gain attention	n
 _34. slough	B. the lowest point	
 _35. behoove	C. to shed or cast off	
 _36. zwieback	D. a new word, usage,	or expression
 _37. oyez	E. being necessary, pro	oper, or advantageous
 _38. nadir	F. a grayish greenish y	ellow color
 _39. neologism	G. a reddish-brown bire	d
 _40. grouse	H. sweetened bread ba	aked then toasted until dry

32. Prior to being discovered as being carcinogenic, asbestos was used mainly in

University Interscholastic League 2022-23 Dictionary Skills Contest Invitational Test — Grades 7 & 8

Answer Key

1.	1.	В
----	----	---

2. D

3. A

4. D

5. D

6. C

7. B

8. C

9. C

10. B

11. C

12. D

13. A

14. C

15. A

16. C

17. B

18. D

19. A

20. D

21. C

22. D

23. C

24. D

25. A

26. D

27. B

28. D

29. C

30. C

31. A

32. C

33. F

34. C

35. E

36. H

37. A

38. B

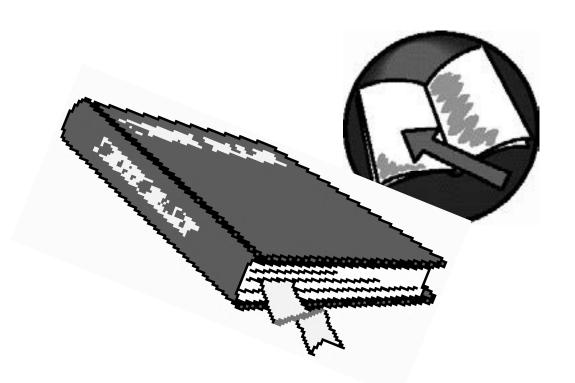
39. D

40. G

FALL/WINTER DISTRICT 2022-2023

A+ ACADEMICS





Dictionary Skills grades 7 & 8

DO NOT OPEN TEST UNTIL TOLD TO DO SO

University Interscholastic League 2022-23 Dictionary Skills Contest Fall/Winter District Test — Grades 7 & 8

1.	Which of the following occupations would be likely A. Teacher B. Journalist	C.	use jargon? Lawyer Secretary
2.	When illustrated on a map, isobars reflect changes A. Temperature B. Distance	C.	what measurement? Rainfall Barometric pressure
3.	An airplane reaches its zenith when it is? A. About to take off B. Coming in for landing		At its highest altitude Parked at the gate
4.	What color is oxblood? A. Red-brown B. Blue-green		Yellow-green Orange-red
5.	Which of the following is a synonym of panacea? A. All-encompassing B. Cover-all		Cure-all All over
6.	One who is taciturn is also? A. Angry B. Quiet		Sad Creative
7.	A Chimera is made up of which parts?A. Dragon's head, serpent's bodyB. Lion's body, bird's wings, woman's head		Lion's head, goat's body, serpent's tail Human's head, horse's body
8.	Which of the following is a synonym for maelstrom A. Wisecrack B. Whirlpool	C.	Wainscoting Wanton
9.	Who could be described as a huckster? A. A doctor B. A car salesman		A lawyer A dentist

10. Leprosy affects which parts of the body?A. Skin and nervesB. Stomach and intestines	C. Heart and lungs D. Brain and spinal cord
11. If an object were to ossify, what would it change i A. Metal B. Sand	into? C. Glass D. Bone
12. Which of the following words contains an umlaut? A. Façade B. Naïve	? C. Jalapeño D. Café
13. Ursa major is Latin for what phrase? A. Big star B. Great bear	C. Close sun D. Large asteroid
14. Which of the following causes mange?A. AllergiesB. Poison	C. Skin mites D. Infected wound
15. Armadillos can be found in what part of the worldA. Eastern Europe andMiddle EastB. Northern Asia and Russia	? C. Southern U.S. and South America D. Australia
16. The trachea is involved in which bodily system?A. Nervous systemB. Digestive system	C. Respiratory system D. Circulatory system
17. One who is scrupulous has strong? A. Morals B. Muscles	C. Mental faculties D. Management skills
18. Yorkshire pudding is comprised of meat drippings ingredients?	s and what additional
A. Flour, sugar, butter B. Eggs, cream, vanilla extract	C. Butter, milk, eggs D. Eggs, flour, milk
19. Which of the following situations features someonA. A woman reading a bookB. A teacher instructing her class	ne being obstreperous? C. A baby crying for its mother D. A man driving his car

	lyl peroxide is used in the treatment of what	con	dition?
	Dandruff		Acne
B.	Eczema	D.	Gingivitis
	of the following is NOT a synonym of kowto		Genuflect
	Pander		Challenge
	ole is a type of what animal?		
	Bird		Cat
В.	Dog	D.	Snake
	philia occurs mainly in which kind of people? Children		Eldorly
	Women		Elderly Men
٥.	Women	٥.	WOII
24. If one	is being implacable, then they are?		
	Being stubborn		Running away
B.	Asking questions	D.	Cleaning up
	ans were mercenaries that assisted the Britisution. What country were they from?	sh a	rmy during the American
A.	France	C.	Russia
B.	Spain	D.	Germany
	of the following gives guano its fertilizing po		
	Fruit and vegetable peels		Bat excrement
В.	Cow droppings	υ.	Plant clippings
27. Chloro	ofluorocarbons have been linked to what env	iror	mental problem?
	Ozone layer depletion		Acid rain
	Water pollution	D.	Greenhouse gas
			emissions
	natural land formation is most similar to a gro		
	Mountain		Cave
В.	Hill	D.	Canyon
	ewspaper, an editorial is different from regula?	ar n	ews coverage because it
	Features eyewitness	C.	Is sponsored by a
	interviews		business
B.	Offers opinions	D.	Contains pictures

30. People with diabetes must sugar levels?	t poke themselves with a	a to check their blood
A. Lancet B. Ligature		C. Loquat D. Labrum
31. lpecac is what kind of drug A. Anti-inflammatory B. Blood thinner	g?	C. Emetic D. Antihistamine
32.A paladin could be found i A. An airport B. On the beach	n which location?	C. On the battlefield D. In a forest
33. assiduous	A. to give up	
34. quell	B. a light purplish blue	
35. periwinkle	C. mischievous	
36. relinquish	D. showing careful atte	ntion
37. insolent	E. to quiet or pacify	
38. iliad	F. confusion or disorde	r
39. helter-skelter	G. being overbearing o	r contemptuous
40. impish	H. a series of epic ever	nts

University Interscholastic League 2022-23 Dictionary Skills Contest Fall/Winter Test — Grades 7 & 8

Answer Key

1.	С
	_

2. D

3. C

4. A

5. C

6. B

7. C

8. B

9. B

10. A

11. D

12. B

13. B

14. C

15. C

16. C

17. A

18. D

19. C

20. C

21. D

22. A

23. D

24. A

25. D

26. C

27. A

28. C

29. B

30. A

31. C

32. C

33. D

34. E

35. B

36. A

37. G

38. H

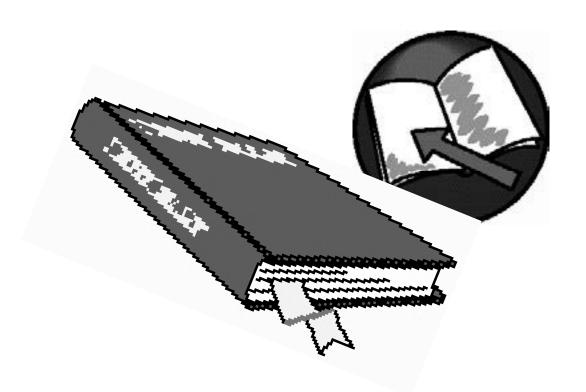
39. F

40. C

SPRING DISTRICT 2022-2023

A+ ACADEMICS





Dictionary Skills grades 7 & 8

DO NOT OPEN TEST UNTIL TOLD TO DO SO

University Interscholastic League 2022-23 Dictionary Skills Contest Spring District Test — Grades 7 & 8

1.	Jai alai is a type of what? A. Sport B. Plant		Gem Measurement
2.	Which of the following authors has a diaresis in the A. J.R.R. Tolkien B. Charlotte Brontë	C.	name? Gabriel Gárcia Márquez Jean-Paul Sartre
3.	To be lachrymose is to be? A. Cheerful B. Sickly		Irritable Tearful
4.	A fricassee is served with what kind of sauce? A. Brown gravy B. Barbecue sauce		White sauce Sour cream
5.	Which of the following is measured in roentgens? A. Carbon dioxide B. Radiation		Ozone Water salinity
6.	Someone who studies mycology studies what type A. Bacteria B. Parasites	C.	life? Fungi Viruses
7.	Where could you find a topiary? A. Hospital B. Classroom		Office Garden
8.	In Ancient Greek myths, the afterlife was known as A. Ecclesia B. Elysium	C.	? Edamame Elastane
9.	Galena is a type of ore used to make? A. Diamonds B. Aluminum		Lead Gold
10	.Quinine can be turned into what kind of drink? A. Tonic water B. Fruit juice		Cola Coffee

A.	animal order does the nutria belong to? Rodents Carnivores		Primates Amphibians
A.	eone commits larceny, they have committed Arson Theft	C.	? Fraud Vandalism
A.	e would an abalone be found? Ocean Forest		Tundra Desert
A.	eone has a periodontal disease, their Skin Hair	C.	affected? Tooth Fingernail
A.	of the following situations illustrates a quibb A mother giving birth to her child A man tending to a garden	C.	A couple having an argument A nurse assisting a patient
A.	of the following is NOT a synonym of bellwe Leader Trendsetter	C.	r? Follower Pioneer
A.	armonic is another way of saying? Ocarina Orchestra		Obtuse Occident
A.	natist writes what kind of literature? Stage plays Novels		Biographies Magazine articles
A.	ake involuntarily is to? Treble Tremble		Trespass Trellis
A.	does someone who is wan look like? Muscular Tall		Sickly Young
A.	t the kibosh on something is to it? Improve Stop		Decorate Clean

Α	nat event could you potentially hear a requiem . A wedding . A birthday	C.	A funeral A sporting event
Α	eone who works as a roustabout primarily doe Construction Education	C.	hat kind of work? Food service Scientific research
conc A	emistry, what is the process in which substan entration to a lower concentration? . Difference . Differential	C.	move from a higher Diffusion Diffluence
Α	ch of the following words contains a diphthong Man Out	C.	Car Pen
Α	ch of these businesses may use usury when d Banks . Restaurants	C.	ng with clients/guests? Doctor's offices Dry cleaners
Α	ngalow is a type of what kind of building? House . Office		Greenhouse Garage
Α	acillate between two options is to? Favor one strongly . Not be able to decide		Dislike both options Make a quick decision
Α	ch of the following foods could be considered possible. Apple . Beans	C.	gent? Cheese Doughnut
Α	t kind of shape is a rhombus? A parallelogram A circle		A cube A pyramid
Α	der to create wine, grapes must be? . Ferreted . Fermented		Fertilized Felted
Α	e following sentence, identify the direct object They Her	C.	ey built a house for her. Built House

 _ 33. mercurial	A. the office of a caliph
 _ 34. longitude	B. a tricky deceitful fellow
 _35. unctuous	C. harmless
 _ 36. innocuous	D. relating to tailored clothes
 _ 37. knave	E. smug, ingratiating
 _38. cerebral	F. intellectual
 _39. caliphate	G. characterized by unpredictable changes
40 sartorial	H measurement of the globe

University Interscholastic League 2022-23 Dictionary Skills Contest Spring District Test — Grades 7 & 8

Answer Key

- 1. A
- 2. B
- 3. D
- 4. C
- 5. B
- 6. C
- 7. D
- 8. B
- 9. C
- 10. A
- 11. A
- 12. B
- 13. A
- 14. C
- 15. C
- 16. C
- 17. B
- 18. A
- 19. B
- 20. C

- 21. B
- 22. C
- 23. A
- 24. C
- 25. B
- 26. A
- 27. A
- 28. B
- 29. C
- 30. A
- 31. B
- 32. D
- 33. G
- 34. H
- 35. E
- 36. C
- 37. B
- 38. F
- 39. A
- 40. D



Editorial Writing

contestant #

Evaluation Sheet

In order to make this a complete learning experience, judges are asked to complete the evaluation sheet for students.

1 0 1 /3 0	FAIR	GOOD	EXCELLEN'
The situation or problem is explained in the first two or three paragraphs.			
The writer takes an obvious stance in the first few paragraphs.			
The writer supports the stance through specific examples.			
The writer presents a logical solution or conclusion.		٠	
What were the strong points of the editorial?			
What were the weak points of the editorial?			
What suggestions do you have for improvement?			
Judge's Signature			



Editorial Writing

A+ Invitational • 2022-2023

You are a reporter for the Leaguetown Press, the student newspaper of Leaguetown Middle School. From the given information, write an editorial as you would for the middle school newspaper. Remember that as an editorial writer you should support or oppose policy or action; you should not sermonize.

You have 45 minutes.

Do not write your name or the name of your school on this sheet or entry. Put your number in the upper right corner of each page of your entry.

STATEMENT OF SITUATION

Leaguetown Middle School is located in Central Texas and has an enrollment of 455 students in grades 6, 7 and 8. A survey by the American Psychological Association found that nearly half of all teens — 45 percent — said they were stressed by school pressures. After attending a Department of Education "Stress-Free" seminar, guidance counselor Kristie Harris has proposed the creation of a "safe space" for students in an empty Art classroom near the front office.

This room would be staffed in rotation with Harris and school psychologist, Asha Garland. Over the summer, Harris and Garland traveled to Fresno, California to visit a school that created a safe space for students. The school has already seen a decrease in students' stress levels and an increase in classroom participation.

"Plenty of schools have created a social-emotional safe space on-campus for their students to go to if they are feeling stressed or overwhelmed," Kristie Harris said. "The classroom we want to use has been out of use since I started working here in 2016. I hope we can repurpose that space into something really special for our students."

Harris and Garland have already collected donations from teachers and parents in the district who donated items such as art supplies, calming sensory toys, board games, and books to furnish the space. Students will be able to receive counseling, unwind with activities, mediate issues with their peers, or mediate in this room.

"I already know the kids are going to take advantage of this program," math teacher Steven Seegel said. "I already have such limited time to teach these kids, and now students are going to use this room as an excuse to cut class. The space used to be an art classroom before budget cuts. Why don't we just reinstate art classes again?"

The safe space would be open for drop-ins before school and during lunch. Students can be referred to the room by teachers and administrators throughout the school day.

Harris and Garland will present their plan at a board meeting this Thursday. The board will either pass or reject this proposal.

You are writing an issue of The Press that will be distributed on the Tuesday before the scheduled meeting.

STANCES

Supporting:

The creation of an on-campus safe space would allow students to decompress, talk to an adult, or help solve issues with their peers. The program will cost the school next to nothing since most of the furnishings have been donated already. Students will only be able to go during the day if they are referred to by a teacher, so it won't be a major distraction throughout the day.

Opposing

The safe space will be a distraction in the classrooms as many students will ask their teachers to go throughout the day. It is unnecessary because both Harris and Garland already have offices that are open to students throughout the school day. The classroom was originally for art classes before budget cuts in 2015, so if the school has extra money to spare, it should go to reinstating art classes.

UIL Editorial Writing Contest • A+ Invitational • 2022-2023

(Distribute this sheet to judges prior to judging.)

JUDGING INSTRUCTIONS

In each contestant's editorial, please look for clarity of thought, and if the writer came to a clear conclusion. Remember that many of these writers have not been trained in proper editorial writing. Therefore key considerations should be that they have made a statement of the situation and formed a stance. They should back that stance with examples. Those examples do not have to come from the data sheet. The contestant then should come to a specific solution or recommendation.

Remember that for purposes of the contest these students go to Leaguetown Middle School. Contestants should not have to specify Leaguetown Middle School, because everyone reading the school paper knows where they go to school. Also, when they refer to the school board they do not have to say "Leaguetown School Board." Again, they know in what city they live.

Judging criteria has been developed to help you score the papers. The criteria are intended to help you evaluate the writing, not as a control

over your background in editorial writing or the writing process.

SAMPLE EDITORIAL

The school board will hear a proposal by guidance counselor Kristie Harris on Thursday for the repurposing of an old classroom into a social-emotional safe space for students.

The school board should reject the proposal and allocate funds elsewhere.

The proposed classroom for the safe space would be in an old art classroom. This classroom became obsolete in 2015 because of budget cuts, when the art program was cut. The school board should focus on funding the art program again so students can take art classes again.

The school psychologist and guidance counselor already have offices where students can come and talk to them. Moving them into a bigger space will not make that much of a difference.

Students may try to take advantage of the safe space and it can become irritating for teachers when students are constantly asking to leave class to go to the safe space. Since the safe space is only fully open before school and during lunch, it will probably get really crowded in there during those times.

The school board should not repurpose the classroom into a safe space. Instead, they should take the necessary steps to reinstating the art program.



Editorial Writing

You are a reporter for the Leaguetown Press, the student newspaper of Leaguetown Middle School. From the given information, write an editorial as you would for the middle school newspaper. Remember that as an editorial writer you should support or oppose policy or action; you should not sermonize.

You have 45 minutes.

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STATEMENT OF SITUATION

Leaguetown Middle School is located in Central Texas and has an enrollment of 2,700 students in grades 6, 7 and 8.

Two years ago, Leaguetown ISD began providing free lunches to all students through the National School Lunch Program, designed to help students whose families are affected by food insecurity. Approximately 2,000 students daily participate in the program, while the remainder of the student population brings lunch. The students who bring their own lunch do so for a variety of reasons, including food allergies and a preference for vegetarian and vegan meals.

On Thursday, the district announced via social media that five Leaguetown teachers had been terminated after a three-day investigation showed that they had been accepting free school lunches from students who did not plan to eat them since they had brought their own lunch. According to school superintendent Rodney Braxton, the investigation showed that the practice occurred throughout the school year and was captured on district security cameras.

"Our investigation showed that the theft of these meals was happening daily and has been happening for months," Braxton said. "When confronted, the teachers admitted they were eating lunches intended for their students."

The National School Lunch Program is intended to provide lunches for students of the district only and employees are not eligible. According to school administration, the district could be fined or even have their enrollment in the program terminated due to the misuse. The district also plans to pursue criminal charges.

"The act of receiving federal free lunches which one is not entitled to is fraudulent behavior, abuse of official capacity, and theft of federal funds, carrying with it criminal consequences," campus principal Samantha Hendrickson said. "We really have no choice."

The teachers, however, claim there is more to the story. They insist that they did not force or even ask the students to bring them their lunches, maintaining the students saw that the teachers were often too busy to take a lunch break and brought them their tray. The employees all contend that they did not know it was against federal regulations and assumed the lunches would just be tossed if they were not eaten.

"Why would we put our careers and our certificates on the line over a school lunch that would cost us \$3.00? That doesn't make sense," teacher Angela Velaro said. "It's really just a misunderstanding."

Many of the parents are siding with the teachers and are angry the district terminated employees who were valuable assets to the campus.

"It is absurd that these educators have lost their jobs and are being threatened with criminal charges," parent Bill Everston said. "My son is one of the students who brought his lunch to his teacher some days, and he says it was always his idea. He was just trying to be nice."

A group of parents has started a petition asking that the teachers be reinstated to their positions. They plan to attend the regularly-scheduled school board meeting this Wednesday to speak and present their signatures. You are writing for the issue of The Press to be distributed the Tuesday before the meeting.

STANCES

Supporting the decision to terminate the teachers

These educators all sign a form at the beginning of each school year that says they have read and promised to abide by the employee handbook. The cost of school lunches for employees is clearly stated in the handbook, as are the rules of the federal program. These employees knew what they were doing and that it was against the rules.

Supporting the petition to reinstate the teachers

Teachers have little time to eat meals during the school day, often spending their lunch periods tutoring students, grading papers, or completing other duties. The meals would have been thrown away if the students had not received them, and once the students got their tray, it really should not matter what they do with it or who eats it. So much of the food on student trays is thrown away, anyway. Why shouldn't someone eat it?

UIL Editorial Writing Contest • A+ Fall/Winter • 2022-2023

(Distribute this sheet to judges prior to judging.)

JUDGING INSTRUCTIONS

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Judging criteria has been developed to help you score the papers. The criteria are intended to help you evaluate the writing, not as a control over your background in editorial writing or the writing process.

SAMPLE EDITORIAL

A group of parents will argue at this week's school board meeting for the reinstatement of five teachers who were caught eating free school lunches, given to them by students who were not eating them.

The teachers were fired after a three-day investigation, where they caught them taking the food from students on security cameras. The school district is also pursuing criminal charges against the educators.

The educators should be reinstated because the food would have ultimately gone to waste if they had not eaten it.

Two years ago, when the school started offering free lunch for all students, many students still brought their own lunch. Students who brought their own lunch then began offering their school lunch to their teachers. The teachers were accepting a kind gesture from their students.

The teachers also had no malintention to steal or cheat the system. If they had known that accepting these lunches would get them fired, they wouldn't have done so. There is no reason to press charges on the teachers as it is an obvious mistake on their part.

The food that the teachers were eating would have probably been thrown away by students anyway, contributing to more trash and food waste. Feeding hard-working teachers seems like a better use for the food than rotting in a trash can.

The school board should reinstate these teachers and recognize this whole situation as a simple mistake, rather than a criminal plot against the school.



Editorial Writing

A+ Spring District • 2022-2023

You are a reporter for the Leaguetown Press, the student newspaper of Leaguetown Middle School. From the given information. write an editorial as you would for the middle school newspaper. Remember that as an editorial writer you should support or oppose policy or action; you should not sermonize.

You have 45 minutes.

Do not write your name or the name of your school on this sheet or entry. Put your number in the upper right corner of each page of your entry.

STATEMENT OF SITUATION

Leaguetown Middle School is located in West Texas and has an enrollment of 342 students in grades 6, 7 and 8.

Last week a teacher was accused of disciplining students in her classroom with a ringing noise generated by her cell phone. Students say the sound was very hard to listen to and that their teacher, Lydia Clayborn, kept playing it even after students begged her to stop.

"When Mrs. Clayborn put on the ringing noise, everyone was covering their ears," one student said. "It was torture. My friend started crying and two students left the room. Mrs. Clayborn finally turned it off, but then she played it again two more times that day."

Clayborn admitted she played the high-pitched frequency because she had been having trouble with her students talking when they should be working. She got the idea after reading an article about high-pitched frequencies kids can hear but some adults cannot. She searched online and found several samples of the frequency, which she downloaded and saved on her phone.

"All I wanted to do was persuade my students to work quietly," Clayborn said. "Ever since the pandemic, their behavior is just not the same as it used to be. I never had trouble with classroom management before, but this year the students have simply been out of control."

Parents of the students are upset and are asking superintendent Barry Leopold to suspend Clayborn or to discipline her in some way.

"It is ridiculous that someone who works with children every day and who is trained to handle students in the classroom would resort to such tactics just because the students are talking too much," parent Cindy Seawell said. "She needs to be removed from the classroom immediately. Our children could have had their hearing permanently damaged."

According to local physician Randall Harriman, high frequency sound causes two types of health effects: hearing loss from extended exposure and subjective effects which may already occur after a few minutes such as headache, tinnitus, fatigue, dizziness and nausea.

"These high-pitched frequencies can cause problems both in the short-term and the long-term," Harriman said. "Several of the students involved did complain later of headaches, but more concerning is the possible effect to their long-term hearing."

Leopold said that no plans have been made at this time to suspend or terminate Clayborn, but he has agreed to meet with the parents next Thursday to hear their concerns. You are writing for an issue of The Press that will be distributed on the Tuesday before the scheduled meeting.

STANCES

Supporting the decision to suspend the teacher

Teachers are expected to be in control of their classrooms and there are measures in place to deal with students who do not comply with the rules. If the teacher was having trouble with student behavior, she should have contacted her administrators for suggestions rather than taking such a drastic step. Several of these students are now afraid to be in her classroom and they may have hearing damage that will not be revealed for years.

Supporting the decision to allow the teacher to remain in the classroom

The teacher made a mistake but had no intent to harm the students. The article she read did not discuss any of the possible negative health effects, and students often use similar sounds to camouflage their use of cell phones in the classroom. Suspending or terminating the teacher is far too harsh of a consequence for an innocent mistake.

UIL Editorial Writing Contest • A+ Spring District • 2022-23 (Distribute this sheet to judges prior to judging.)

JUDGING INSTRUCTIONS

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SAMPLE EDITORIAL

Superintendent Barry Leopald will hear from concerned parents Thursday following an incident in which teacher Lydia Clayborn played a high-frequency ringing noise in her classroom on her phone, causing great discomfort for her students.

Superintendent Leopald should suspend Clayborn for putting children through emotional and physical distress.

Classroom management has been a struggle for teachers since going back to school after the pandemic, however, Clayborn could have reached out to her administrators or co-workers for help, before resorting to high-pitched noises. If Clayborn still wanted to use the noise in the classroom, she should have cleared it with her administrators first.

Students begged Clayborn to turn off the noise and very clearly expressed their discomfort through crying, covering their ears, or walking out of the classroom. This reaction created an even greater distraction from learning, rather than helping the situation. However, Clayborn still chose to play the sound again later that day.

Many students suffered from headaches after the incident, but the long-term effects of the sound on student's hearing is still unknown. Clayborn potentially put students in harm's way and they may suffer the consequences later on in life.

Children should feel safe in school and Clayborn's actions have left many children feeling reluctant to go back to her class. The superintendent should suspend Clayborn for her drastic actions that made a bad situation even worse.



INSTRUCTIONS

Contestants should be evaluated and ranked based on effectiveness of delivery, organization of ideas and the overall impression of the speech. Students draw three topics and have three minutes to prepare a speech. The maximum time limit for speaking is five minutes. There is no minimum time limit. Topics may be serious or humorous in nature. Note cards may not be used during the presentation. Please make your comments using language understandable to the contestant. Students and instructors appreciate constructive narrative comments. Please do not confer with other judges before ranking students. Judging decisions are an individual responsibility.

Speaker Number	Speaker Name	_
Section	Topic	_
CRITERIA		
Evaluate the contestant in each category. Do	NOT total these numbers to determine rank in the round. They are only	

Evaluate the contestant in each category. Do NOT total these numbers to determine rank in the round. They are only designed to give the contestant an indication of strengths and weaknesses.

QUESTION		NEEDS WORK	GOOD	SUF	SUPERIOR	
١.	Was the presentation organized clearly and effectively?	1	2 3	4	5	
2.	Was the speaker's delivery smooth and articulate?	1	2 3	4	5	
3.	Did the student have adequate eye contact?	1	2 3	4	5	
4.	Did the student have a creative approach to the topic?	1	2 3	4	5	
5.	Was the speaker poised and confident?	1	2 3	4	5	
6.	Did the speaker have vocal variety?	1	2 3	4	5	
7.	Was the speaker interested and enthusiastic?	1	2 3	4	5	
8.	Did the speaker communicate with the audience?	1	2 3	4	5	

WRITTEN EVALUATION

Comments should be constructive and supportive.

Judge's signature	8	



A+ IMPROMPTU SPEAKING TOPICS

2022-2023 Invitational PRELIMINARY ROUND

- 1. The best food I ever ate...
- 2. If I could pause time...
- 3. If I had a movie made about my life...
- 4. If I were on a deserted island...
- 5. If I woke up famous tomorrow...
- 6. The best field trip I ever went on...
- 7. My dream job is...
- 8. If I could turn into an animal...
- 9. The best kind of dessert is...
- 10. If I could live in a fictional universe...
- 11. If I were a cartoon character...
- 12. If I could go to space...
- 13. My outfit is never complete without...
- 14. My favorite sport to watch is...
- 15. If I could go to any country, I would go to...

A+ IMPROMPTU SPEAKING TOPICS

2021-2022 Invitational PRELIMINARY ROUND

CUT APART FOR TOPIC SELECTION

************* 2022-23 Invitational- Impromptu Prelims 1. The best food I ever ate... ************ 2022-23 Invitational-Impromptu Prelims 2. If I could pause time... ************ 2022-23 Invitational-Impromptu Prelims 3. If I had a movie made about my life... *********** 2022-23 Invitational- Impromptu Prelims 4. If I were on a deserted island... 2022-23 Invitational- Impromptu Prelims 5. If I woke up famous tomorrow... ***** 2022-23 Invitational- Impromptu Prelims 6. The best field trip I ever went on... ************

7. My dream job is...

2022-23 Invitational-Impromptu Prelims

8. If I could turn into an animal...

2022-23 Invitational- Impromptu Prelims

9. The best kind of dessert is...

2022-23 Invitational- Impromptu Prelims

10. If I could live in a fictional universe...

2022-23 Invitational- Impromptu Prelims

11. If I were a cartoon character...

2022-23 Invitational-Impromptu Prelims

12. If I could go to space...

2022-23 Invitational-Impromptu Prelims

13. My outfit is never complete without...

2022-23 Invitational- Impromptu Prelims

14. My favorite sport to watch is...

2022-23 Invitational-Impromptu Prelims

15. If I could go to any country, I would go to...



A+ IMPROMPTU SPEAKING TOPICS

2022-2023 Invitational FINAL ROUND

- 1. If I could learn another language...
- 2. One thing I wish I had an unlimited supply of ...
- 3. Social media...
- 4. If I ran my own business...
- 5. If I could make a documentary...
- 6. When it comes to kids my age, my teacher should know...
- 7. If cars were never invented...
- 8. I wish everyone knew about...
- 9. Making books into movies is good and bad because...
- 10. The scariest thing that ever happened to me...
- 11. Responsibility means...
- 12. Creativity means...
- 13. If I could paint a mural...
- 14. One thing that worries me about the future...
- 15. If kids could vote...

A+ IMPROMPTU SPEAKING TOPICS 2022-2023 Invitational FINAL ROUND

CUT APART FOR TOPIC SELECTION

	% % % % %		
1. If I could bear another language	2022-23 Invitational— Impromptu Finals		
1. If I could learn another language			
**********	****		
2. One thing I wish I had an unlimited supply	2022-23 Invitational—Impromptu Finals of		

3. Social media	2022-23 Invitational– Impromptu Finals		
	* * * * *		
4. If I ran my own business	2022-23 Invitational—Impromptu Finals		
+. If I fall fifty Own ousiness			
	2022-23 Invitational– Impromptu Finals		
5. If I could make a documentary			
* * * * * * * * * * * * *			
	2022-23 Invitational– Impromptu Finals		
6. When it comes to kids my age, my teacher should know			

7. If cars were never invented...

2022-23 Invitational- Impromptu Finals

8. I wish everyone knew about...

2022-23 Invitational-Impromptu Finals

9. Making books into movies is good and bad because...

2022-23 Invitational- Impromptu Finals

10. The scariest thing that ever happened to me...

2022-23 Invitational- Impromptu Finals

11. Responsibility means...

2022-23 Invitational- Impromptu Finals

12. Creativity means...

2022-23 Invitational-Impromptu Finals

13. If I could paint a mural...

2022-23 Invitational-Impromptu Finals

14. One thing that worries me about the future...

2022-23 Invitational-Impromptu Finals

15. If kids could vote...



A+ IMPROMPTU SPEAKING TOPICS 2022-2023 Fall/Winter District

PRELIMINARY ROUND

- 1. Something I could talk about for hours is...
- 2. If I could have dinner with anybody...
- 3. If animals could talk...
- 4. When I'm older, I want to live in...
- 5. If I could control the weather...
- 6. If I could keep any animal as a pet...
- 7. If I could write a song...
- 8. The best Halloween I ever had...
- 9. Sometimes I daydream about...
- 10. The time I laughed the hardest was...
- 11. When I go to a restaurant, I always order...
- 12. My favorite video game is...
- 13. If I wrote a book...
- 14. If I had super strength...
- 15. My earliest memory is...

A+ IMPROMPTU SPEAKING TOPICS 2022-2023 Fall/Winter District PRELIMINARY ROUND

CUT APART FOR TOPIC SELECTION

2022-23 Fall/Winter– Impromptu Prelim
1. Something I could talk about for hours is

2022-23 Fall/Winter– Impromptu Prelim
2. If I could have dinner with anybody
3. If animals could talk
2022-23 Fall/Winter– Impromptu Prelim 4. When I'm older, I want to live in
+. When I in older, I want to live in
2022-23 Fall/Winter– Impromptu Prelim
5. If I could control the weather
2022-23 Fall/Winter– Impromptu Prelim
6. If I could keep any animal as a pet

7. If I could write a song...

2022-23 Fall/Winter-Impromptu Prelims

8. The best halloween I ever had...

2022-23 Fall/Winter-Impromptu Prelims

9. Sometimes I daydream about...

2022-23 Fall/Winter-Impromptu Prelims

10. The time I laughed the hardest was...

2022-23 Fall/Winter-Impromptu Prelims

11. When I go to a restaurant, I always order...

2022-23 Fall/Winter-Impromptu Prelims

12. My favorite video game is...

2022-23 Fall/Winter-Impromptu Prelims

13. If I wrote a book...

2022-23 Fall/Winter-Impromptu Prelims

14. If I had super strength...

2022-23 Fall/Winter-Impromptu Prelims

15. My earliest memory is...



A+ IMPROMPTU SPEAKING TOPICS 2022-2023 Fall/Winter District FINAL ROUND

- 1. If I were a billionaire...
- 2. The hardest part about being a kid...
- 3. If I could change one thing about my school...
- 4. When I go to college, I want to major in...
- 5. If I won an award, it would be for...
- 6. If I was the principal of my school...
- 7. Leadership means...
- 8. I hope high school is...
- 9. The most tired I've ever been...
- 10. Advice I have for kids starting middle school...
- 11. The most interesting person I know...
- 12. The nicest thing someone ever did for me was...
- 13. The animal I know the most about is...
- 14. When I get my driver's license...
- 15. I wish I could be more like...

A+ IMPROMPTU SPEAKING TOPICS 2022-2023 Fall/Winter District FINAL ROUND

CUT APART FOR TOPIC SELECTION

2022-23 Fall/Winter– Impromptu Fina
1. If I were a billionaire
2022-23 Fall/Winter– Impromptu Fina
2. The hardest part about being a kid

2022-23 Fall/Winter– Impromptu Fina
3. If I could change one thing about my school
2022 22 E 110V. 4 . 1 4 . E.
4. When I go to college, I want to major in
5. If I won an award, it would be for
2022-23 Fall/Winter– Impromptu Fina
6. If I was the principal of my school

7. Leadership means...

2022-23 Fall/Winter-Impromptu Finals

8. I hope high school is...

2022-23 Fall/Winter-Impromptu Finals

9. The most tired I've ever been...

2022-23 Fall/Winter-Impromptu Finals

10. Advice I have for kids starting middle school...

2022-23 Fall/Winter-Impromptu Finals

11. The most interesting person I know...

2022-23 Fall/Winter-Impromptu Finals

12. The nicest thing someone ever did for me was...

2022-23 Fall/Winter-Impromptu Finals

13. The animal I know the most about is...

2022-23 Fall/Winter-Impromptu Finals

14. When I get my driver's license...

2022-23 Fall/Winter-Impromptu Finals

15. I wish I could be more like...



A+ IMPROMPTU SPEAKING TOPICS

2022-2023 Spring District PRELIMINARY ROUND

- 1. The best game to play with friends is...
- 2. My favorite month of the year...
- 3. The snack I always must have...
- 4. If I could make a new Olympic sport...
- 5. If I met George Washington...
- 6. If I ran a restaurant...
- 7. The perfect birthday would be...
- 8. My favorite outfit...
- 9. If my parents let me do the grocery shopping...
- 10. If I had to give up one of my five senses...
- 11. If I met a werewolf...
- 12. If I could go back in time...
- 13. Something that makes me sad is...
- 14. If my dog could use the internet...
- 15. My favorite vegetable...

A+ IMPROMPTU SPEAKING TOPICS

2022-2023 Spring District PRELIMINARY ROUND

CUT APART FOR TOPIC SELECTION

2022-23 Spring– Impromptu Prelims 1. The best game to play with friends is
2022-23 Spring- Impromptu Prelims
2. My favorite month of the year
2022-23 Spring- Impromptu Prelims
3. The snack I always must have
2022-23 Spring- Impromptu Prelims
4. If I could make a new Olympic sport
2022-23 Spring-Impromptu Prelims
5. If I met George Washington
2022-23 Spring- Impromptu Prelims
6. If I ran a restaurant
7. The perfect birthday would be

8. My favorite outfit...

2022-23 Spring-Impromptu Prelims

9. If my parents let me do the grocery shopping...

2022-23 Spring-Impromptu Prelims

10. If I had to give up one of my five senses...

2022-23 Spring-Impromptu Prelims

11. If I met a werewolf...

2022-23 Spring-Impromptu Prelims

12. If I could go back in time...

2022-23 Spring-Impromptu Prelims

13. Something that makes me sad is...

2022-23 Spring-Impromptu Prelims

14. If my dog could use the internet...

2022-23 Spring-Impromptu Prelims

15. My favorite vegetable...



A+ IMPROMPTU SPEAKING TOPICS

2022-2023 Spring District FINAL ROUND

- 1. If I was an airplane pilot...
- 2. Honesty means...
- 3. My favorite summer memory...
- 4. In the future, school will be...
- 5. The thing I miss most about being a kid...
- 6. If I never had to sleep...
- 7. The best teacher I ever had...
- 8. If there were life on Mars...
- 9. If I could pass one law...
- 10. One thing I'll never forget...
- 11. One way I like to serve my community...
- 12. I wish my teacher would teach me about...
- 13. I'll always regret...
- 14. If I could be an expert about one subject...
- 15. When my parents were my age...

A+ IMPROMPTU SPEAKING TOPICS

2022-2023 Spring District FINAL ROUND

CUT APART FOR TOPIC SELECTION

2022-23 Spring– Impromptu Finals 1. If I was an airplane pilot
2022-23 Spring-Impromptu Finals
2. Honesty means

3. My favorite summer memory
2022-23 Spring–Impromptu Finals 4. In the future, school will be
The factor of will be
5. The thing I miss most about being a kid
2022-23 Spring– Impromptu Finals
6. If I never had to sleep
2022-23 Spring– Impromptu Finals

7. The best teacher I ever had...

8. If there were life on Mars...

2022-23 Spring-Impromptu Finals

9. If I could pass one law...

2022-23 Spring-Impromptu Finals

10. One thing I'll never forget...

2022-23 Spring-Impromptu Finals

11. One way I like to serve my community...

2022-23 Spring-Impromptu Finals

12. I wish my teacher would teach me about...

2022-23 Spring-Impromptu Finals

13. I'll always regret...

2022-23 Spring-Impromptu Finals

14. If I could be an expert about one subject...

2022-23 Spring-Impromptu Finals

15. When my parents were my age...

CONTESTANT NUMBER:

D

D

D

D

D

FOR GRADER USE ONLY Score Test Below: out of 75. Initials out of 75. Initials	SiL
Papers contending to place:	University Interscholastic League A+ Listening Contest • Answer Sheet
out of 75. Initials	

Write your contestant number in the upper right corner, and circle your grade below.

Circle Grade Level: 5 6 7 8

1. A	В	C	D	14. A	В	C
2. A	В	C	D	15. A	В	C
3. A	В	C	D	16. A	В	C
4. A	В	C	D	17. A	В	C
5. A	В	C	D	18. A	В	C
6. A	В	\mathbf{C}	D	19. T	F	
7. A	В	C	D	20. T	\mathbf{F}	
8. A	В	\mathbf{C}	D	21. T	\mathbf{F}	
9. A	В	\mathbf{C}	D	22. T	\mathbf{F}	
10. A	В	\mathbf{C}	D	23. T	F	
11. A	В	\mathbf{C}	D	24. T	F	
12. A	В	C	D	25. T	F	
13. A	В	C	D			

UIL LISTENING CONTEST - GRADES 7 & 8 INVITATIONAL MEET 2022-2023

Contest Script - "The History of Play-Doh"

Everyone has childhood memories of favorite playthings. Some are unique to situations and families. However, chances are, if you mention the words Play-Doh, your friend will know exactly what you mean. Think about it. My guess is that right now you have a mental image of a small yellow can with a colorful lid. You might even have vague memories of the colors, textures and even smells associated with it. How did this modeling compound become such a popular children's product? Let's find out the history of Play-Doh.

Before Play-Doh became Play-Doh, it was actually marketed and sold for a completely different purpose. In the late 1920s, Cleo McVicker began working for the Kutol Products soap company based in Cincinnati, Ohio. Although it had been founded in 1912, it was still a small company, and it began having financial difficulties. The company was close to going out of business when, in 1933, Cleo negotiated a contract with the Kroger company to manufacture wallpaper cleaner to be marketed and sold in their grocery stores. Although Kutol Products had never made wallpaper cleaner before Cleo and his brother Noah developed a winning formula. Their new, clay-like compound was made from water, salt, and flour. It was non-toxic and easy to use. This new product was sold successfully for the next 20 years. Eventually, however, as lifestyles and homes began to change, there was less need for a product to remove soot from wallpaper. By the early 1950s, sales of Kutol Products wallpaper cleaner began to plummet. After World War II, coal-based home furnaces began to be replaced by oil and gas ones. This reduced the amount of soot in the air and on the walls of their home. It was great for the lungs and the environment, but bad for Kutol. The company began to flounder again.

2:00

1:00

After Cleo died in 1949, his wife Ima hired their son Joseph McVicker and son-in-law Bill Rodenbaugh to run the business. In 1955, Kay Zufall, a schoolteacher who was McVicker's sister-in-law convinced him to reimagine their product as something children could play with. She gave the wallpaper cleaner to her students who were happy to use

the pliable material for creating and modeling. After seeing the smiles on the children's faces, Joseph returned to headquarters to make plans to repurpose their product.

In 1956, Joseph and his uncle Noah McVicker established the Rainbow Crafts Company. Upon the suggestion of Kay Zufall, Rainbow Crafts renamed the product Play-Doh and marketed it to elementary schools in the greater Cincinnati, Ohio, area. The Woodward & Lothrop Department Store in Washington DC discovered the product and began selling it in 1956. Noah and Joseph McVicker applied for a patent for Play-Doh in 1958.

Originally, Play-Doh came in boxes that weighed 1½ pounds and was an off-white color. However, by 1957, the company offered red, yellow, and blue Play-Doh in gallon cans. This proved to be far too large, and soon the Rainbow Crafts Company began selling in eleven-ounce packages. Kutol Products continued to manufacture soap and other cleaners, but Rainbow Crafts Company, Inc., became the sole manufacturer of Play-Doh. At this point, Joseph wanted to market his product to a larger audience than just schools and daycares, but he did not have a large enough advertising budget. He had to think outside of the box. He introduced Play-Doh to Bob Keeshan, otherwise known to the television world as Captain Kangaroo. Captain Kangaroo was an American children's television series that aired weekday mornings on CBS from 1955 to 1984.

It was the longest running nationally broadcast children's television program of that era. Bob Keeshan played the part of Captain Kangaroo and based the show on the warm relationship that exists between grandparent figures and young children. Bob Keeshan loved Play-Doh and made a commitment with McVicker to use Play-Doh at least once a week on his show, and Rainbow Crafts would give him 3% of the overall sales. This brought Play-Doh nationwide attention. Of course, sales shot through the roof. Rainbow Crafts struggled to keep up with the overwhelming demand. In 1960, Rainbow Crafts decided to add accessories as part of the Play-Doh line. McVicker hired two engineers to design a product that would enhance the use of Play-Doh in multiple ways.

The result was the Fun Factory. When children (or adults) used the items in the Fun Factory, they were able to explore their imaginations. To use the fun factory, the user simply loaded Play-Doh into the plastic box, selected a shape from one of the two rails, and then press the lever to squeeze out a long stream of silly and fun shapes. The Fun

4:00

Factory was so popular that it is still sold today. Since 1960, the Fun Factory along with dozens of other accessories and playsets such as Animal Ark, Make a Meal Sub Shop and Dr. Drill & Fill were developed and sold. There was even a hair salon called Play-Doh Buzz and Cut. Newer sets include Play-Doh Crazy Cut Stylist, Play-Doh Ice Cream Truck, and Play-Doh Stamp and Cut though none of them are as successful as the original Fun Factory. By 1964, Rainbow Crafts was shipping more than one million cans of Play-Doh per year.

5:00

Finally, on January 26, 1965, the US Patent Office officially patented Play-Doh. That same year, General Mills purchased the Rainbow Crafts Company and all rights to Play-Doh. Six years later, Rainbow Crafts and Kenner Products, both owned by General Mills were merged. General Mills continued to manufacture Play-Doh until 1987 when Tonka Corporation purchased both Kenner and Rainbow Crafts. In 1991, the current producer of Play-Doh, Hasbro, purchased all rights to Play-Doh. According to *Fortune* magazine, Play-Doh has sold more than 3 billion cans since its debut in 1956. That's more than 700 million pounds! In fact, Hasbro wrote on the Play-Doh site that "Urban legend has it that if you took all of the Play-Doh compound created since 1956 and put it through the Play-Doh Fun Factory playset, you could make a snake that would wrap around the world 300 times."

6:00

Play-Doh was originally packaged with illustrations of children mainly because it was introduced as a children's toy. Packages also briefly contained the Play-Doh Pixie which was a tiny elf. However, in 1960 the elf was replaced by Play-Doh Pete. Play-Doh Pete was a cartoon boy who wore a smock and a beret. By 1992, Play-Doh Pete's beret was a signature blue, and his eyes were more human than cartoon. In 2000, his beret was replaced with a baseball cap. In 2003, Play-Doh Pete was retired after lasting for 42 years.

As a result of its huge popularity, Play-Doh was inducted into the Strong's National Toy Hall of Fame in 1998. The National Toy Hall of Fame at the Strong was established in 1998 and recognizes toys that have inspired creative play and enjoyed popularity over a sustained period. Play-Doh has definitely done that. Each year, the Toy Hall of Fame inducts new honorees and showcases both the new and historic versions of classic toys loved by generations of children. The Strong's Brian Sutton-Smith Library and Archives

of Play has approximately 40 trade catalogs and print advertisements ranging from 1964 through the present which represent Rainbow Crafts, Kenner, and Hasbro. In addition, there are more than 40 Play-Doh related articles found in their collection.

7:00 We know that even today, Play-Doh is a very popular creative outlet for children's imaginations. Although accidentally invented, it has grown into a worldwide franchise and influenced children for over 60 years. Although it was originally sold in the basic colors of blue, yellow, red, and white, it is now sold in many colors including Rose Red, Purple Paradise, Garden Green, and Blue Lagoon. There are also tints that include metallic and glittery elements. The recipe has gone through minor modifications over time. At one point, the amount of salt was reduced to prevent it from drying out as quickly. Play-Doh's manufacturer, Hasbro, says that the clay is primarily a mixture of water, salt and flour. A patent issued in 2004 by the US Patent office indicates that it is composed of water, starch, salt, a petroleum additive used as a lubricant, fragrance, color, several preservatives, a hardener, and a retrogradation inhibitor. Borax is also added to prevent mold from developing. Although it contains ingredients that are edible, because of the other ingredients, it is not intended to be eaten.

8:00 To celebrate the 50th anniversary of its use as a toy, in 2006, Hasbro created a Play-Doh perfume. Demeter Fragrance company created a fresh-out of the can aroma. It did not sell well but was marketed as a limited-edition fragrance inspired by Play-Doh's distinctive odor for "highly-creative people, who seek a whimsical scent reminiscent of their childhood. To preserve its proprietary pungency, Hasbro filed for trademark protection in 2017, claiming the product had "a unique scent formed through the combination of a sweet, slightly musky, vanilla-like fragrance, with slight overtones of cherry, and the natural smell of a salted, wheat-based dough." The company received the trademark on May 18, 2018.

In 2003, The Toy Industry Association placed Play-Doh into its "Century of Toys List" which contains the 100 most memorable and creative toys of the 20th century. What a remarkable journey from wallpaper cleaner to one of history's most iconic toys.

INVITATIONAL 2022-2023

A+ ACADEMICS





Listening grades 7 & 8

DO NOT OPEN TEST UNTIL TOLD TO DO SO

UIL LISTENING CONTEST - GRADES 7/8 INVITATIONAL MEET 2022-2023

TEST

"The History of Play-Doh"

1. Who came up with the name "Play-Doh"?

	A. Cleo McVicker C. Kay Zufall		Bill Rosenbaugh Ima McVicker
2.	What was the original name of the of A. Kutol Products C. Rainbow Crafts	В.	pany that first invented Play-Doh? Hasbro Tonka
3.	In what year did Joseph and Noah N A. 1955 C. 1961	В.	icker apply for a patent for Play-Doh? 1958 1964
4.	Which Play-Doh accessory was the r A. Fun Factory C. Ice Cream Truck	В.	t successful? Dr. Fill & Drill Buzz & Cut
5.	Which of the following colors were r A. blue C. red	В.	part of the original set of 4? yellow green
6.	B. People began to replace their c C. Wallpaper had gone out of fad	epre oal due	aner to plummet after World War I? ession leaving people with little extra cash burning stoves with gas and oil ones. e to greater availability of colorful paints. war by replacing wallpaper instead of
7.	In what year was The National Toy A. 1967 C. 2003	В.	of Fame at the Strong established? 1998 1964

8.	Why is Borax added to Play-Doh? A. to give it a unique aroma C. to keep it from drying out	B. to keep it soft and pliableD. to prevent mold from growing				
9.	To celebrate the 50th anniversary of its use as a toy what new item was created? A. the Sock & Bop Living in the 50s Ice Cream Shop B. a new color swirl container of 3 different colors C. a perfume that smelled like a new container of Play-Doh D. an accessory for the Fun Factory that created the number 50					
10.	In what year did Rainbow Crafts f A. 1960 C. 1965	inally receive their patent? B. 1970 D. 1975				
11.	How large was the 1957 Play-Doh A. one gallon C. 1 cup	container? B. 11 ounces D. 32 ounces				
12.	thinking outside of the box for cre A. He invented a new use for an	old product. s product with only a small budget. Ite accessories for his product.				
13.	Who was Noah McVicker? A. Joseph's father C. Joseph's uncle	B. Joseph's brother D. Joseph's cousin				
14.	 The National Toy Hall of Fame inducts toys that A. contain old and new versions that are loved by children B. have been sold children for more than 20 years C. have inspired creative play and been popular for a sustained period D. generated more than a million dollars throughout their lifetime 					
15.	Which of the following is not part of A. water C. starch	of the patented recipe for Play-Doh? B. wheat flour C. Jubricant				

16. What percentage of sales did Bob Keeshan get from Rainbow Crafts? A. 0%

B. 1%

C. 2%

D. 3%

17. Who placed Play-Doh into its "Century of Toys List" which contains the 100 most memorable and creative toys of the 20th century in 2003?

A. The Toy Industry Association B. Strong's Brian Sutton-Smith Library

C. The National Archives of Play D. The Toy Hall of Fame

18. How many years did Captain Kangaroo air on CBS?

A. 15

B. 26

C. 8

D. 29

True/False

- 19. After inventing Play-Doh, the original manufacturer halted work on soap and other cleaners and focused solely on the manufacturing of Play-Doh.
- 20. By 1964, Rainbow Crafts was shipping more than one million cans of Play-Doh per year.
- 21. After extensive research, Hasbro scientists determined that if you took all the Play-Doh compound created since 1956 and put it through the Play-Doh Fun Factory playset, you could make a snake that would wrap around the world 300 times.
- 22. Since its debut in 1956 more than 700 million pounds of Play-Doh have been created and sold.
- 23. Hasbro was granted a trademark on the scent of Play-Doh on May 18, 2018 due to competing companies using slightly musky, vanilla-like fragrance, with slight overtones of cherry, and the natural smell of a salted dough.
- 24. According to *Fortune* magazine, Play-Doh has sold more than 3 billion cans since its debut in 1956 which is more than 700 million pounds.
- 25. In 1933, Cleo negotiated a contract with the Kroger company to manufacture wallpaper cleaner to be marketed and sold in their grocery stores even though his company didn't have a wallpaper cleaner as one of their products.

UIL LISTENING CONTEST - GRADES 7/8 INVITATIONAL MEET 2022-2023

ANSWER KEY

"The History of Play-Doh"

- 1. C
- 2. A
- 3. B
- 4. A
- 5. D
- 6. B
- 7. B
- 8. D
- 9. C
- 10. C
- 11. A
- 12. B
- 13. C

- 14. C
- 15. B
- 16. D
- 17. A
- 18. D
- 19. False
- 20. True
- 21. False
- 22. True
- 23. False
- 24. True
- 25. True

UIL LISTENING CONTEST - GRADES 7 & 8 FALL/WINTER DISTRICT 2022-2023

Contest Script – "Canton Trade Days"

Texas is a pretty big state. Actually, it's a very big state covering 268,596 square miles. So, knowing that, it makes sense that Texas would have really big events. Ever heard the saying, "Everything's bigger in Texas"? Well, it's not always true, but there is one thing that is definitely huge. The city of Canton holds the record for having the nation's largest trade days event. It is called First Monday Trade Days, and it is quite an experience. Let's find out what it's all about.

Canton, Texas, was surveyed in the 1840s by a company of men under Dr. W.P. King. No settlement was made until 1850, when the town was laid out. Settlers moving in from Old Canton in Smith County named the town. The first district courthouse in Canton opened in 1850 along with a post office, the fourth one in the county. Property for the town's first school, the Canton Academy, was acquired in 1853. The *Canton Weekly Times*, owned by Sid S. Johnson, began publication as the county's first newspaper in 1860. By 1890, Canton had a population of 421. By 1892, brick buildings were being built, and a new brick courthouse was completed in 1894. That's a lot of growth for a small town in Texas. But it was just the beginning.

First Monday began in the 1850s. It was common in those days for the circuit judge to make his rounds to his assigned towns on specific days to hold court sessions. People from all over the area would find their way to Canton would make a point of coming to town to conduct business, stock their pantries, watch court proceedings, and even watch a "hanging" or two. There was one incident where a man was hung for stealing his partner's wagon of goods he was bringing into Canton for trading. He is actually buried facing south in Hillcrest Cemetery near the First Monday Trades Day grounds. During those days, Canton's designated day was the first Monday of each month. Canton is located in Van Zandt County. Most of the county was open range at that time. In the

1:00

2:00

Western United States and Canada open range is rangeland where cattle roam freely regardless of land ownership. Where there were open range laws, if someone wanted to keep animals off their property, they had to build a fence to keep the animals out. Many wild horses roamed the land as well as cattle. The law in Van Zandt county required that all stray horses should be brought into Canton where they would be auctioned off to the highest bidder. These auctions were conducted on the same Monday as the arrival of the circuit judge. This Monday became known as "Horse Monday". In fact, the crowds began to become even larger when word spread that First Monday Canton was a good place to buy and sell horses. Horse traders from out of state even began to attend. Soon people began to bring their own horses to sell or trade, and as the years passed, they began to bring their excess crops, such as fresh produce, grain, and sugar cane syrup. As a result, the name began to change from "Horse Monday" to First Monday Trades Day. The trading took place just off the west side of the courthouse square.

During this time, communication between neighbors and family members who didn't live together could be difficult. There were no telephones, and mail was not delivered door to door. Often people would wait until First Monday to go to Canton to see their relatives and friends, take care of personal business, and catch up on the local news. Politicians would be sure to take advantage of First Monday by campaigning when there were lots of people to listen to their speeches. As time passed, the population of Canton increased, and the attendance for First Monday increased along with it. Vendors began to set up trading operations on the streets. People would walk up and down the streets trading, visiting and conducting business. This might not sound like much, but the townspeople began to be disturbed by the event. After each First Monday, they had to clean up the filth and confusion that cluttered their streets. Finally, a city ordinance was passed prohibiting trade in the streets. Although the townspeople hoped that this would dissuade the crowds, this did not happen. The crowds would descend every month like clockwork. This continued through the turn of the century and into the 1930s.

4:00

3:00

It wasn't until the 1940s that the crowds began to decline. Farmers began using tractors instead of horses to plow their fields. Horse trading began to decline. But, it wasn't long before another type of trading began to take place - hogs. Local pig farmers gained the reputation of having the cleanest and finest pigs sold anywhere. This became known as "Hog Monday". Because the hogs sold were cholera free, buyers came from all over Texas, Oklahoma, and Arkansas to purchase them. Cholera is an acute diarrheal illness caused by infection of the intestine with Vibrio cholerae bacteria. People can get sick when they swallow food or water contaminated with cholera bacteria. The infection is often mild or without symptoms but can sometimes be severe and life-threatening. If a person throws up repeatedly or has severe diarrhea, they can become so dehydrated that they become severely ill or even die. Cholera has been nicknamed the "blue death" because a person's skin may turn bluish-gray from extreme loss of fluids.

By the 1950s crowds had become so large that space became a problem. One woman who owned a large lot of land near the courthouse square began patrolling her property with a broom to keep people off. When a trader offered to rent space from her, she decided to take advantage of it. Soon she was making \$100 every First Monday. One widow was offered 25 cents for the use of her bathroom, and soon she was making money on First Monday as well. Because space was limited, traders began arriving on Sunday to try to get the best space. Soon churches began to complain about all of the crowds and noise. Sanitation and lodging became a huge concern because there were not enough hotels and adequate bathroom facilities. A city police force was needed to control order and keep crime down. First Monday was definitely becoming a problem for the city of Canton.

Besides pigs, dogs were also a commodity. Although it began with farmers bringing in strays, hunters started bringing in hound dogs to trade. Soon dogs were selling for as much as \$500! First Monday gained a new name for dog people all over the Southwest as it began to be called "Dog Monday". A person wanting to find a dog could purchase anything from a Russian Setter to specialized squirrel dogs to plain old hunting dogs. A

problem developed, however, because after the event, many of the dogs that did not sell were simply released. Canton found itself flooded with stray dogs. This caused the city to have to hire a dog catcher. In the early 1960s, a man was bitten by a dog and died of rabies. Rabies is a deadly virus which is spread to people from the saliva of infected animals. Rabies is usually spread through an animal bite. Animals most likely to spread rabies include dogs, bats, coyotes, foxes, skunks, and raccoons. Symptoms include fever, headache, excess salivation, muscle spasms, paralysis, and mental confusion. As a result, a city ordinance was passed prohibiting the sale or trade of dogs. The townspeople thought this might shut down the trade days altogether. It didn't. Instead, an individual purchased 3 acres of land and held the dog trade on his private property. The city required that all dogs be vaccinated and kept leashed or penned.

7:00

By 1965, First Monday had outgrown the town square. The City of Canton decided to stop fighting it and take action. Rules and regulations had to be enacted, a location for the trades day had to be secured, and some kind of order had to be established. The City did not have the funds to move the trading area, so Angus Travis and Joe Hackney partnered and purchased six and a half acres of land north of the square and designated it as a trading area. The City leased the land from H & T Parking and the area was divided into spaces. Each space was rented for a nominal fee, depending upon the type of merchandise offered for sale or trade. This was a new beginning for an old tradition, with a plan for the future. In a short time, this area became filled to overflowing. As more land could be secured by the City, adjoining the original site, it was bought and developed for use.

8:00 Now, nearly 70 years later, First Monday Trade Days is still going strong. Every month between 200,000 and 400,000 tourists, visitors, and vendors roll into town and get together to create a shopping experience as big as Texas. The Trade Days area consists of over 450 acres of shopping, 4 miles of which is covered. Food trucks and small popup restaurants provide great festival food. Craftsmen and resale merchants provide a wide variety of items for sale, and the animal trade is still going strong. In April of 2020,

due to Covid-19 shut downs, Canton trade days had to shut down for two months. This was the first time since 1853 that Canton had not held a trades day. It reopened for the June First Monday and is still going strong.

9:00 Over time, First Monday has gained national recognition. Feature stories appeared in Life Magazine, Look Magazine, and the Saturday Evening Post. Texas newspapers periodically ran stories about its appeal and uniqueness. Originally, First Monday only occurred on the first Monday of each month. However, if you look at the calendar of events for the City of Canton now, you will see that it no longer happens on Monday. Instead it is scheduled for the Thursday - Sunday before the first Monday of the month. That allows even more visitors to attend and explore the thousands of vendor sites. Even though the event goes from Thursday – Sunday, the name is now and will forever be known as First Monday Trade Days.

FALL/WINTER DISTRICT 2022-2023

A+ ACADEMICS





Listening grades 7 & 8

DO NOT OPEN TEST UNTIL TOLD TO DO SO

UIL LISTENING CONTEST - GRADES 7/8 FALL/WINTER DISTRICT 2022-2023 TEST

"CANTON TRADE DAYS"

1.	A.	decade did First Monday Trade 1840s 1860s	B.	ys begin? 1850s 1870s
2.	В. С.	In death, the fingernails turn	e co es a blue	ploring due to lack of fluids. a person's bodily fluids a blue tint.
3.	Α.	a city ordinance was passed proportions poor sanitation conditions lack of animal control	B.	biting the sale or trade of dogs? inability to contain fleas an outbreak of rabies
4.	except A.	day Trade Days has been featu <i>Life Magazine Time Magazine</i>	В.	in all of the following magazines Look Magazine The Saturday Evening Post
5.	A.	y square miles is the State of 7 264,856 284,986	B.	as? 268,596 396,684
6.		ar First Monday	Trad	de Days had outgrown the city
		1965 1975		1967 1980
7.	the Month A. B. C.		trac n oi	n that day. first Monday.

A B C		eded horses for farming.
day supp	plies buried?	stealing his partners wagon full of trade
	a. on the Trade Days grounds C. Hillcrest Cemetery	B. Van Zandt county cemeteryD. under the hanging tree
A B C	aused the decline of horse tradir a. Texans began to move to the b. Hog trading became more pop c. The city of Canton passed an b. Farmers began to use tractors	city from rural areas. oular. ordinance against animal trading.
Α	onday Trade days has been know Dog Days Produce Days	wn by all of the following except B. Horse Days D. Hog Days
	Covid 19, April 2020 was the fire	st time Trade Days had been closed since
	a. 1951 C. 1953	B. 1952 D. 1956
A B C	did trading originally take place a. across from the horse barns b. just off the west side of the co c. on the same plot of land that b. about three miles from the or	ourthouse square Trade Days still occurs
acres, ci A	gh the original parcel of land pur urrently, Trade days consists of a. 350 a. 400	chased for Trade Days was only 6.5 acres. B. 375 D. 450
А	as the original owner of <i>The Car</i> a. W.P. King c. Sid S. Johnson	nton Weekly Times? B. Angus Travis D. Joe Hackney
Α	brick courthouse was built in Car a. 1894 C. 1862	nton during B. 1876 D. 1904

- 17. What happened to the dogs that were not purchased during Trade Days?
 - A. They were sold cheaply at auction.
 - B. Some were taken back to their homes while others were killed.
 - C. Vendors took surplus dogs to different flea markets throughout Texas.
 - D. Unsold dogs were released to roam freely and fend for themselves.
- 18. How many miles of covered walkways does Canton Trade Days currently have?

A. 12

B. 4

C. 6

D. 8

True/False

- 19. One Canton man who owned a large lot of land near the courthouse square began patrolling his property with a broom to keep people off but eventually accepted \$300 to sell the land to a vendor.
- 20. When the City of Canton did not have the funds to move the trading area to a larger location, Angus Travis and Joe Hackney partnered and purchased six and a half acres of land north of the square and designated it as a trading area.
- 21. Due to the popularity of horse trading and the large crowds it attracted, people soon began to bring their excess crops, such as fresh produce, grain and sugar cane prompting people to begin calling the first Monday of the month Trade Days.
- 22. During the early years of Canton Trade Days, the term open range meant that livestock could roam freely across the land unless the land owner fenced off his land.
- 23. When an outbreak of cholera occurred during the Hog Monday days, the city of Canton passed a law against selling hogs in an effort to shut down trade days altogether.
- 24. Although the land for Canton, Texas was surveyed in the 1840s, no settlement was made until 1950 when the town was laid out and named by settlers moving in from Old Canton in Smith County.
- 25. Because space was limited, during the early days, traders began arriving on Sunday to try to get the best space causing church attendance to spike.

UIL LISTENING CONTEST - GRADES 7/8 FALL/WINTER DISTRICT 2022-2023

ANSWER KEY

"CANTON TRADE DAYS"

1	В

2. A

3. D

4. C

5. B

6. A

7. B

8. A

9. C

10. D

11. C

12. C

13. B

14. D

15. C

16. A

17. D

18. B

19. F

20. T

21. T

22. T

23. F

24. T

25. F

UIL LISTENING CONTEST - GRADES 7 & 8 SPRING DISTRICT 2022-2023

Contest Script – "Nellie Bly: America's First Investigative Journalist"

In today's world, most women reporters are treated very similar to their male counterparts. They travel all over the world to investigate and report on a wide range of crimes and situations. However, this hasn't always been the case. Nellie Bly was a journalist in the 1800s. Writing and editing real news was considered a man's job. Nellie Bly shattered that idea and became America's first woman to be an investigative journalist.

Nellie Bly was born Elizabeth Jane Cochran on May 5, 1864, to Michael and Mary Jane Cochran. The marriage was the second one for both Michael and Bly's mother, Mary Jane, who wed after the deaths of their first spouses. Michael had 10 children with his first wife and five more with Mary Jane, who had no prior children. In fact, Elizabeth was daughter number 13 for Michael. Elizabeth's family owned a mill in Cochran, Pennsylvania. The town was named after her father, Michael Cochran. They were considered wealthy, as her father was a landowner, businessman, and judge. At the age of six in 1870, Elizabeth lost her father. Her father's death presented a grave financial situation to his family, as he left them without a will. At this time, women could not own property, so her mother had no legal claim to his estate. Instead, the estate was divided equally among his 15 children and his wife. In effect, Mary Jane was left with only a small part of what had once been considered significant wealth. As a young girl, Elizabeth took on the nickname "Pinky" because it was her favorite color. However, as a teen, she dropped the nickname in an effort to make herself seem more sophisticated. When Elizabeth was a teenager, the family moved to Pittsburgh. Her mother rented out rooms in their home to help pay the bills. Elizabeth wanted to be a teacher, but there was little money for her training. Although she began attending Indiana Teacher's College, she was unable to finish her

1:00

2:00

education because she didn't have the money for tuition. No longer in school, Elizabeth focused on helping her mother run the boardinghouse.

One day, in 1885, when she was 21, Elizabeth read an article in the *Pittsburgh Dispatch* that made her angry. In the piece, writer Erasmus Wilson declared that girls were good for marriage but not for education or a career. His article was entitled "What Girls Are Good For." This upset her so much that Elizabeth decided to write an open letter to the editor of the *Pittsburgh Dispatch*. She anonymously signed the letter "Lonely Orphan Girl." In the letter, she blasted the newspaper for its negative representation of women. The editor, George Madden, not only read Bly's response, he printed it, and posted a request for the "Lonely Orphan Girl" to stop by his newspaper to meet him. When she did, he offered her a job as columnist at a rate of \$5 per week.

At this time, journalism wasn't thought of as acceptable work for women, so most women journalists used pen names to disguise their identity. As a newspaper writer, Elizabeth took the pen name Nellie Bly. Nelly Bly was the title of a popular folk song of the day written by Stephen Foster. Bly's first article for the *Pittsburgh Dispatch* was "The Girl Puzzle" which discussed the need for reform of divorce laws which unfairly favored men. She went on to write about factory work which included unsafe working conditions, poor wages, and long hours. This honest reporting attracted negative attention from local factory owners. Because he did not want to anger Pittsburgh's wealthy elite, Madden quickly reassigned Bly to write women's news.

This limited arena of writing frustrated Bly, so in 1886, she convinced the editor to send her to Mexico to write a travel piece. She spent part of her time writing about her experiences as a tourist, however, she also wrote reports about the poverty and political corruption she witnessed in the country. She also wrote about a Mexican journalist who was sent to prison for criticizing the government. Eventually, she was forced to leave Mexico to avoid being arrested. Her stories were published in a book called *Six Months in Mexico* in 1888.

4:00

3:00

Because she wanted to write pieces that addressed both men and women, Bly began looking for a paper that would allow her to write more serious work. In 1886, she moved to New York City. Again, due to being a woman journalist, Bly found it extremely hard for her to find work. Finally, she got a job reporting for New York World by agreeing to work on an undercover assignment. Posing as a mental patient, she spent several days on Blackwell's Island, a mental institution. In the 1800s, people with mental illness were often mistreated. In an effort to accurately expose the conditions at the asylum, she lived undercover as a mental patient for 10 days. Bly's exposé, published in the World soon after her return to reality, was a massive success. She wrote about the filthy conditions, rotten food, beatings, and ice-cold baths.

5:00

6:00

The *New York World* published Bly's articles about her time in the insane asylum on Blackwell's Island in a six-part series. *Ten Days in a Mad-House* quickly made Bly one of the most famous journalists in the United States. The piece ultimately spurred a large-scale investigation of the institution. Led by New York Assistant District Attorney Vernon M. Davis, with Bly assisting, the asylum investigation resulted in significant changes in New York City's Department of Public Charities and Corrections. These changes included a more money being provided for the care of mentally ill patients, stronger supervision of nurses and other healthcare workers, and regulations to prevent overcrowding and fire hazards at the city's medical facilities.

Active investigative journalists were commonly known as muckrakers. Muckrakers brought attention to inequalities or hazardous practices and motivated society to take action. Bly followed her Blackwell investigations by uncovering the abuse of women by male police officers, identifying an employment agency that was stealing from immigrants, and exposing corrupt politicians. She also interviewed controversial figures including Lizzie Halliday in 1893. Lizzie Halliday was an Irish-American serial killer responsible for the deaths of four people in upstate New York during the 1890s. In 1894, she became the first woman to be sentenced to death by the electric chair. Halliday's sentence was commuted, and she spent the rest of her life in a mental institution. In

1894, Bly interviewed John P. Haines, the president of the American Society for the Prevention of Cruelty to Animals (ASPCA). He was investigating the conditions at the Central Park Zoo. He found that the hippo pool was filthy and there were not enough shelters to protect the animals during bad weather.

By 1888, Bly began to feel restless. After reading the popular book *Around the World in* 80 Days by Jules Vern, she decided to travel around the world alone to attempt to break the record of Phileas Fogg, the fictional main character of the novel. She set out on November 14, 1889 in Hoboken, New Jersey traveling first by ship and later by horse, rickshaw, sampan, and many other vehicles. Her journey took her to England, France, Egypt, Singapore, Hong Kong, and Japan. As she traveled, she wrote articles and sent them to the newspaper using telegram and mail. People in the United States were very interested in her travels. The *New York World* built up the story by running daily articles and a guessing contest in which whoever came nearest to guessing her time in circling the globe would win a trip to Europe. There were nearly one million entries in the contest. After reaching California, Bly took a very fast train, *The Queen*, on the Southern Pacific Railroad to hurry back to New York. She completed the trip in 72 days, 6 hours, 11 minutes and 14 seconds—setting a real-world record, despite her fictional inspiration for the undertaking. Her record was beaten in 1890 by George Francis Train, who finished the trip in 67 days. Because of the continuous coverage in the *New York World*, Bly earned international stardom. Nellie Bly's Book, Around the World in Seventy-two Days, published in 1890 was a great popular success, and the name Nellie Bly became a synonym for a female star reporter.

In 1895, Nellie married millionaire Robert Seaman and retired from journalism at the age of 31. Her husband Robert was 40 years older than her and died in 1903. In his will, he left her in control of his massive manufacturing company. The company, Iron Clad Manufacturing Company, manufactured the first 55-gallon steel oil drum. This is the same standard type of steel oil drum used today. While she was in charge of the company, she added fitness gyms, libraries and healthcare for her workers. This was

8:00

7:00

unheard of during this time. Eventually, the cost of these benefits would drain her finances. She began writing again for the *New York Evening Journal* in 1920 and reported on many events including the women's suffrage movement and World War I. While she was still working as a writer, she died in New York City from pneumonia on January 27, 1922. She was 57 years old. After her death, the *New York Evening Journal* declared her to be "The Best Reporter in America."

In 1998, Bly was inducted into the National Women's Hall of Fame. She was one of four journalists honored with a US postage stamp in a "Women in Journalism" set released in 2002. In 2015, director Timothy Hines released a movie titled *10 Days in a Madhouse,* which depicted Nellie's experience in the mental asylum, and, in 2019, Lifetime movies released a thriller also based on this experience. The role of Nellie Bly was played by Cristina Ricci, and Judith Light played the role of the head nurse.

Nellie Bly was a reporter for the underdog. She spoke out for people who had no money, no power, and no voice. She was a courageous reporter who never took no for an answer.

9:00

SPRING DISTRICT 2022-2023

A+ ACADEMICS





Listening grades 7 & 8

DO NOT OPEN TEST UNTIL TOLD TO DO SO

UIL LISTENING CONTEST - GRADES 7/8 SPRING DISTRICT 2022-2023

TEST

"Nellie Bly: America's First Investigative Journalist"

- 1. What was Nellie Bly's actual name?
 - A. Elizabeth Martha Seaman
 - C. Elizabeth Jane Cochran
- B. Martha Jane Cochran
- D. Mary Elizabeth Hines
- 2. Who gave Nellie Bly her first job as a journalist?
 - A. Robert Hines

B. Stephen Foster

C. Vernon Davis

- D. George Madden
- 3. How many children did Bly's father have?
 - A. 15

B. 20

C. 25

D. 30

- 4. Where did Nellie attend college?
 - A. Indiana Teacher's College
- B. Pittsburg School of Journalism
- C. New York State University
- D. Pennsylvania College
- 5. What book did Bly have published in 1888?
 - A. Ten Days in a Mad House
- B. Around the World in 80 Days
- C. Six Months in Mexico
- D. The Queen
- 6. Why was Bly frustrated with her first job as a journalist?
 - A. Her editor expected her to go undercover, and she had no experience.
 - B. She was unable to make enough money to pay her rent and live comfortably.
 - C. Her assignments were only typical women's pieces and weren't fulfilling.
 - D. The job required too much time away from helping her mother.
- 7. What was Nellie's nickname as a young child?
 - A. Nellie because she loved the song Nellie Bly
 - B. Pinky because it was her favorite color
 - C. Noodle because she liked to doodle in a journal
 - D. Trece because she was her father's 13th daughter

	A. 18 C. 20	B. 19 D. 21
9. I	How long did Nellie Bly spend travellir A. 3 months C. 6 months	ng in Mexico? B. 5 months D. 8 months
10.	In 2015, who released a movie titled depicted Nellie's experience in the material A. Christina Ricci C. Timothy Hines	•
11.	What company did Nellie take over a A. Iron Clad Manufacturing C. Seaman Steel	ofter the death of her husband? B. Solid Steel Drum Company D. Elite Manufacturing
12.	Who was Nellie Bly working for wher A. <i>New York World</i> C. <i>New York Evening Post</i>	n she died? B. <i>New York Times</i> D. <i>New York Evening Journal</i>
13.	What was the name of the first articl A. Lonely Orphan Girl C. Women in Factories	e Nellie Bly had published? B. What Girls are For D. The Girl Puzzle
14.	Why did Nellie Bly have to leave Mex A. She fell in with the wrong peop B. Her editor decided to give her a C. She wrote articles that angered D. It was too dangerous or her to	ole and made them mad. an undercover assignment. I the Mexican government.
15.	After her death, the <i>New York Even</i> . A. a woman ahead of her time. B. the best reporter in America. C. a muckraker that can never be	

D. a reporter with true grit.

8. How old was Nellie Bly when she took her first newspaper job?

- 16. What was the result of Bly's undercover work on Blackwell's Island?
 - A. Factory owners were enraged but began to allow workers to take breaks.
 - B. Investors funded improvements to the hippo pool and enclosure.
 - C. New laws were passed to improve the care of mental patients.
 - D. The police department was overhauled to reduce misbehavior of officers.
- 17. In 1894, Lizzie Halliday became the first woman to
 - A. be sentenced to death by the electric chair.
 - B. be convicted as a serial killer in the United States.
 - C. have a serial murder conviction overturned.
 - D. receive a commutation of a death sentence.
- 18. Who's record did Nellie attempt to beat as she traveled around the world?
 - A. Jules Vern

B. George Francis Tran

C. Filleas Fogg

D. John P. Haines

True/False

- 19. When Elizabeth was a teenager, her family moved to Pittsburgh, Pennsylvania where her father worked as a judge and her mother ran a boarding house.
- 20. An article in the *Pittsburgh Dispatch* made Nellie angry because the writer, Erasmus Wilson, declared that girls were good for marriage or working in factories or schools but not for business or newspaper reporting.
- 21. Because she wanted to write pieces that would address more serious issues, Bly moved to New York City in 1886.
- 22. While she was in charge of the company she gained during her divorce, she added co-ed fitness gyms, libraries and healthcare for her workers which was unheard of during this era in history.
- 23. In 1895, Nellie married and retired from journalism at the age of 31. Her husband Robert was 40 years older than her and died in 1903.
- 24. Nellie Bly's Book, *Around the World in Seventy-two Days*, which was published in in 1897 chronicled her record, which was eventually broken by John Haines in 1905 and made Nellie Bly synonymous for a female star reporter.
- 25. In 1998, Bly was inducted into the National Women's Hall of Fame and was one of four journalists honored with a US postage stamp in a "Women in Journalism".

UIL LISTENING CONTEST - GRADES 7/8 SPRING DISTRICT 2022-2023

ANSWER KEY

"Nellie Bly: America's First Female Investigative Journalist"

1.	C	

2. D

3. A

4. A

5. C

6. C

7. B

8. D

9. C

10. C

11. A

12. D

13. D

14. C

15. B

16. C

17. A

18. C

19. F

20. F

21. T

22. F

23. T

24. F

25. F

CONTESTANT NUMBER:

FOR GRADER USE ONLY					
Score Test Below:					
Initials					
Initials					
Papers contending to place:					

Initials



University Interscholastic League A+ Maps/Graphs/Charts Contest • Answer Sheet

Write your contestant number in the upper right corner, and circle your grade below.

Circle Grade Level: 5 6 7 8

1. A	В	C	D	26. T	\mathbf{F}			51. A	В	C	D
2. A	В	C	D	27. T	F			52. A	В	\mathbf{C}	D
3. A	В	\mathbf{C}	D	28. T	\mathbf{F}			53. A	В	\mathbf{C}	D
4. A	В	C	D	29. T	\mathbf{F}			54. A	В	C	D
5. A	В	C	D	30. T	\mathbf{F}			55. A	В	C	D
6. A	В	C	D	31. A	В	C	D	56. T	F		
7. A	В	C	D	32. A	В	C	D	57. T	F		
8. A	В	C	D	33. A	В	C	D	58. T	F		
9. A	В	C	D	34. A	В	C	D	59. T	F		
10. A	В	C	D	35. A	В	C	D	60. T	F		
11. A	В	C	D	36. A	В	C	D	61. A	В	C	D
12. A	В	C	D	37. A	В	C	D	62. A	В	C	D
13. A	В	C	D	38. A	В	C	D	63. A	В	C	D
14. A	В	C	D	39. A	В	C	D	64. A	В	C	D
15. A	В	C	D	40. A	В	C	D	65. A	В	C	D
16. A	В	C	D	41. T	F			66. A	В	C	D
17. A	В	C	D	42. T	F			67. A	В	C	D
18. A	В	C	D	43. T	F			68. A	В	\mathbf{C}	D
19. A	В	C	D	44. T	F			69. A	В	C	D
20. A	В	C	D	45. T	\mathbf{F}			70. A	В	C	D
21. A	В	C	D	46. A	В	C	D	71. T	\mathbf{F}		
22. A	В	C	D	47. A	В	C	D	72. T	\mathbf{F}		
23. A	В	C	D	48. A	В	C	D	73. T	\mathbf{F}		
24. A	В	C	D	49. A	В	C	D	74. T	\mathbf{F}		
25. A	В	C	D	50. A	В	C	D	75. T	\mathbf{F}		

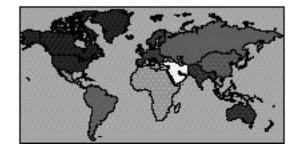
INVITATIONAL 2022-2023

A+ ACADEMICS









Maps, Graphs & Charts

grades 7 & 8

DO NOT OPEN TEST UNTIL TOLD TO DO SO

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Australia

- 1. The longest river in Australia runs through what part of the country?
 - a. Southeast
 - b. Southwest
 - c. Northwest
 - d. Northeast
- 2. What is the territorial capital of French Polynesia?
 - a. Canberra
 - b. Tarawa
 - c. Papeete
 - d. Manila
- 3. What's the largest city on Australia's west coast?
 - a. Brisbane
 - b. Adelaide
 - c. Perth
 - d. Bunbury
- 4. What is the precipitation level of Sydney?
 - a. Under 10 inches per year
 - b. Between 10 and 20 inches per year
 - c. Between 20 and 40 inches per year
 - d. Over 40 inches per year
- 5. What is the primary land cover type of Indonesia?
 - a. Cropland
 - b. Tropical rain forest
 - c. Grassland
 - d. None of the above
- 6. What body of water lies between Semarang, Indonesia and Borneo?
 - a. Java Sea
 - b. South China Sea
 - c. Celebes Sea
 - d. Molucca Sea
- 7. The Outback covers how much of Australia?
 - a. Ten percent
 - b. Twenty percent
 - c. Forty percent
 - d. Eighty percent
- 8. What is the climate of Australia's northern coast?
 - a. Steppe
 - b. Desert
 - c. Savanna
 - d. Marine

- 9. What is the most densely populated country in Australia and Oceania?
 - a. Australia
 - b. Nauru
 - c. Palau
 - d. New Zealand
- 10. Which of the following countries is transcontinental?
 - a. Indonesia
 - b. Thailand
 - c. Vanuatu
 - d. Cambodia
- 11. On the land cover map, what does the pink line running through New Guinea indicate?
 - a. Land cover type change
 - b. Elevation change
 - c. Continental boundary
 - d. International boundary
- 12. Which of the following resources is not found in New Zealand?
 - a. Gold
 - b. Iron
 - c. Tin
 - d. Silver
- 13. How far is it from Merredin, Australia to Albany, Australia?
 - a. About 100 miles
 - b. About 250 miles
 - c. About 400 miles
 - d. About 500 miles
- 14. Mainland Australia is divided into how many states?
 - a. 4
 - b. 6
 - c. 10
 - d. 12
- 15. Which is the world's oldest continuous culture?
 - a. Polynesian
 - b. Micronesian
 - c. Melanesian
 - d. Aborigine

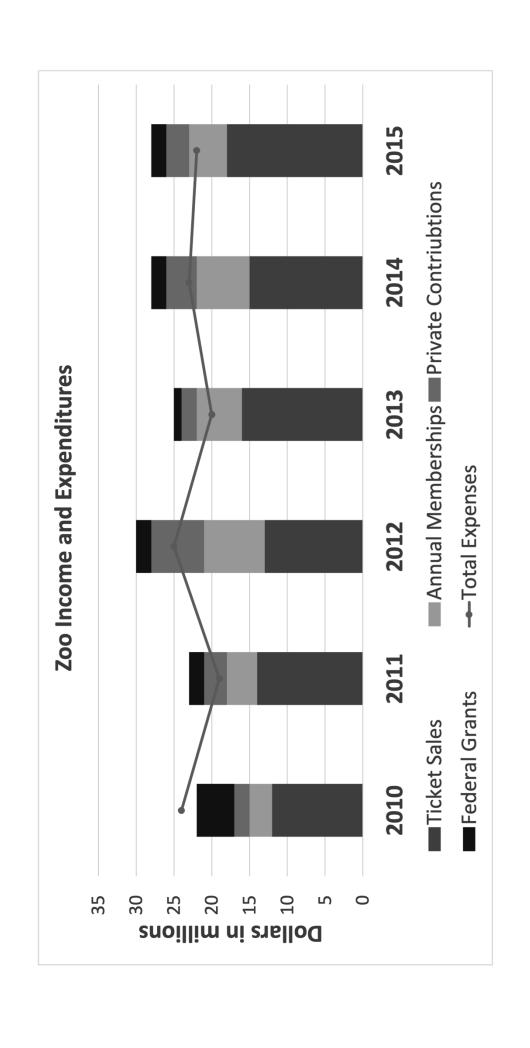
County Zoo	Tigers	Elephant Show Rangaroos Rangaroo	Main Building Entrance	History Museum Art Museum Life Science Museum
6th St. (one way)	State	Film History Museum and Theatre	Global Theatre	5th St. (one way)
7	Spot St.			

County Zoo Map

- 16. Which of the following streets is one way only?
 - a. Spot St.
 - b. Twine St.
 - c. 6th St.
 - d. None of the above
- 17. The nearest gift shop to the Flamingo Exhibit is in what direction?
 - a. Northwest
 - b. Southwest
 - c. Northeast
 - d. Southeast
- 18. The zoo opens at what time on Thursdays?
 - a. 9:00 a.m.
 - b. 10:00 a.m.
 - c. 7:00 p.m.
 - d. 8:00 p.m.
- 19. How is public parking accessed?
 - a. By heading west on 5th Street
 - b. By heading south on 6th Street
 - c. By heading north on 5th Street
 - d. By heading east on 6th Street
- 20. How many first aid stations are indicated on the map?
 - a. 0
 - b. 1
 - c. 2
 - d. 3
- 21. Which of the following is located directly north of the main building?
 - a. Playground
 - b. ATM machine
 - c. Gift shop
 - d. Picnic area

- 22. How far is it from the corner of 5th and Twine to the main entrance?
 - a. About 300 feet
 - b. About 600 feet
 - c. About 1,200 feet
 - d. Scale not indicated on the map
- 23. Which of the following is not located on south side of Twine Street?
 - a. State Aquarium
 - b. Art Museum
 - c. Global Theatre
 - d. All of the above
- 24. How many hours is the zoo open on Saturdays?
 - a. 8
 - b. 9
 - c. 10
 - d. 12
- 25. How many gift shops are located in the zoo?
 - a. 0
 - b. 1
 - c. 2
 - d. 4

- 26. Parking is located at the south end of the zoo.
- 27. The zoo opens and closes earlier on weekends.
- 28. There are more concessions than picnic areas.
- 29. 6th street only runs north to south.
- 30. The Petting Zoo is the attraction furthest south.



Zoo Income and Expenditures

- 31. What does the horizontal line going across the columns represent?
 - a. The year
 - b. Source of income
 - c. Expenses
 - d. The amount of income
- 32. How much did the zoo receive from federal grants in 2010?
 - a. \$50,000
 - b. \$60,000
 - c. \$40,000
 - d. None of the above
- 33. What item is represented by the lightest column?
 - a. Ticket sales
 - b. Annual memberships
 - c. Federal Grants
 - d. Total expenses
- 34. What time span is covered by the graph?
 - a. Twelve months
 - b. Six months
 - c. Six years
 - d. Twelve months
- 35. What year did the zoo take in the most income overall?
 - a. 2010
 - b. 2011
 - c. 2012
 - d. 2013
- 36. How many times was revenue from private contributions higher than from federal grants?
 - a. 0
 - b. 1
 - c. 3
 - d. 5

- 37. Which source of income generated the most revenue over the time covered by the chart?
 - a. Ticket sales
 - b. Annual memberships
 - c. Private contributions
 - d. Federal Grants
- 38. In how many years did expenses outpace income?
 - a. 0
 - b. 1
 - c. 2
 - d. 4
- 39. Which year had the highest difference between revenue and expenses?
 - a. 2010
 - b. 2012
 - c. 2014
 - d. 2015
- 40. In how many years did the zoo generate more than 5 million in income?
 - a. 0
 - b. 1
 - c. 4
 - d. 6

- 41. Ticket sales increased every year.
- 42. The highest amount of income occurred in the same year as the highest amount of expense.
- 43. Ticket sales were at least double the amount of every other income source combined every year.
- 44. The strongest year for ticket sales occurred in 2015.
- 45. The numbers on the left side of the chart represent expense and revenue in millions of dollars.

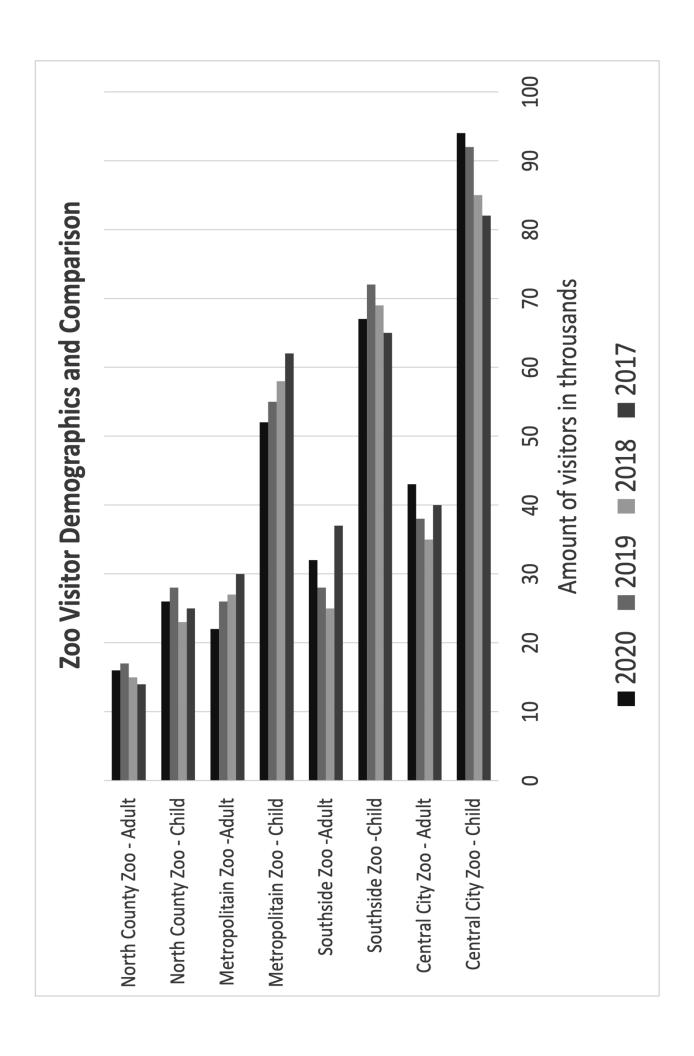
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North America

- 46. What is the longest river in Canada?
 - a. Mississippi River
 - b. Saskatchewan River
 - c. Mackenzie River
 - d. St. Lawrence River
- 47. Marine climate can be found in what area of the United States?
 - a. Southwest
 - b. Northwest
 - c. Southeast
 - d. Northeast
- 48. What Canadian city is located on the shore off James Bay?
 - a. Alma
 - b. Eastmain
 - c. Parent
 - d. Waterloo
- 49. What is the third most spoken language in Canada?
 - a. English
 - b. French
 - c. Chinese
 - d. Dutch
- 50. The southern area of Arizona has what type of land cover?
 - a. Semi-desert and desert
 - b. Cropland
 - c. Grassland
 - d. Broadleaf forest
- 51. Which of the following states is not in Tornado Alley?
 - a. Texas
 - b. Arkansas
 - c. Kansas
 - d. Nebraska

- 52. What is the main land use type in Iowa?
 - a. Ranching
 - b. Forestry
 - c. Commercial farming
 - d. No widespread use
- 53. On the United States Political Relief Map, what is the scale of the Hawaii insert?
 - a. One inch equals 151 miles
 - b. One inch equals 251 miles
 - c. One inch equals 351 miles
 - d. One inch equals 451 miles
- 54. Which of the following Canadian cities has the largest population?
 - a. Labrador City
 - b. Quesnel
 - c. Twin Falls
 - d. Mississauga
- 55. What percentage of Canada is covered by forest?
 - a. Twenty percent
 - b. Forty percent
 - c. Sixty percent
 - d. 80 percent

- 56. The world's longest highway is located in Canada.
- 57. The population of Greenland are citizens of Denmark.
- 58. Most of the east coast of the United States gets over 80 inches of rain per year.
- 59. Turks and Caicos Islands are a territory of Canada.
- 60. Mexico is part of the North American Free Trade Agreement.



Zoo Visitor Demographics and Comparison

- 61. What does the x axis represent?
 - a. The year
 - b. The specific zoo
 - c. Number of visitors
 - d. None of the above
- 62. What does the darkest column represent?
 - a. 2017
 - b. 2020
 - c. Central City Zoo
 - d. South Side
- 63. What year did Southside Zoo have the highest adult attendance?
 - a. 2017
 - b. 2018
 - c. 2019
 - d. 2020
- 64. Which zoo had the highest child attendance over the entire time covered by the graph?
 - a. Central City Zoo
 - b. Southside Zoo
 - c. Metropolitan Zoo
 - d. North County Zoo
- 65. In what year did overall attendance increase the most at North County Zoo compared to the previous year?
 - a. 2017
 - b. 2018
 - c. 2019
 - d. 2020
- 66. How many different zoos are included in the data?
 - a. 4
 - b. 6
 - c. 8
 - d. 16

- 67. Which zoo had the highest adult attendance in 2018?
 - a. Central City Zoo
 - b. Southside Zoo
 - c. Metropolitan Zoo
 - d. North County Zoo
- 68. In how many years was adult attendance higher at Metropolitan Zoo than Southside Zoo?
 - a. 0
 - b. 1
 - c. 2
 - d. 4
- 69. In how many years did Central City Zoo adult attendance exceed four thousand?
 - a. 0
 - b. 1
 - c. 2
 - d. 4
- 70. Which zoo had the smallest difference between adult and child attendance in 2017?
 - a. Central City Zoo
 - b. Southside Zoo
 - c. Metropolitan Zoo
 - d. North County Zoo

- 71. Central City Zoo had the highest attendance in both categories every year.
- 72. Child attendance was at least double adult attendance every year at Central City Zoo.
- 73. Total attendance at Metropolitan Zoo never exceeded 100,000 in a single year.
- 74. Adult attendance at Southside Zoo peaked in 2018.
- 75. The chart covers data from eight different zoos over four years.



University Interscholastic League

A+ Maps/Graphs/Charts Contest • 2022-2023 7/8 Invitational **Answer Key**

51. B

2. C	27. F	52. C
3. C	28. T	53. B
4. D	29. T	54. D
5. B	30. T	55. B
6. A	31. C	56. T
7. D	32. D	57. T
8. C	33. B	58. F
9. B	34. C	59. F
10. A	35. C	60. T
11. D	36. D	61. C
12. C	37. A	62. B
13. B	38. B	63. A
14. B	39. D	64. A
15. D	40. D	65. C
16. C	41. F	66. A
17. D	42. T	67. A
18. A	43. F	68. B
19. C	44. T	69. D
20. B	45. T	70. D
21. A	46. C	71. T
22. C	47. B	72. T
23. B	48. B	73. T
24. D	49. C	74. F
25. C	50. A	75. F

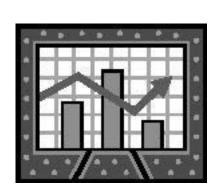
26. F

1. A

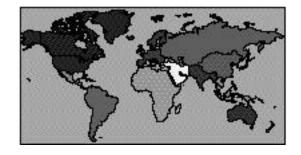
FALL/WINTER DISTRICT 2022-2023

A+ ACADEMICS









Maps, Graphs & Charts

grades 7 & 8

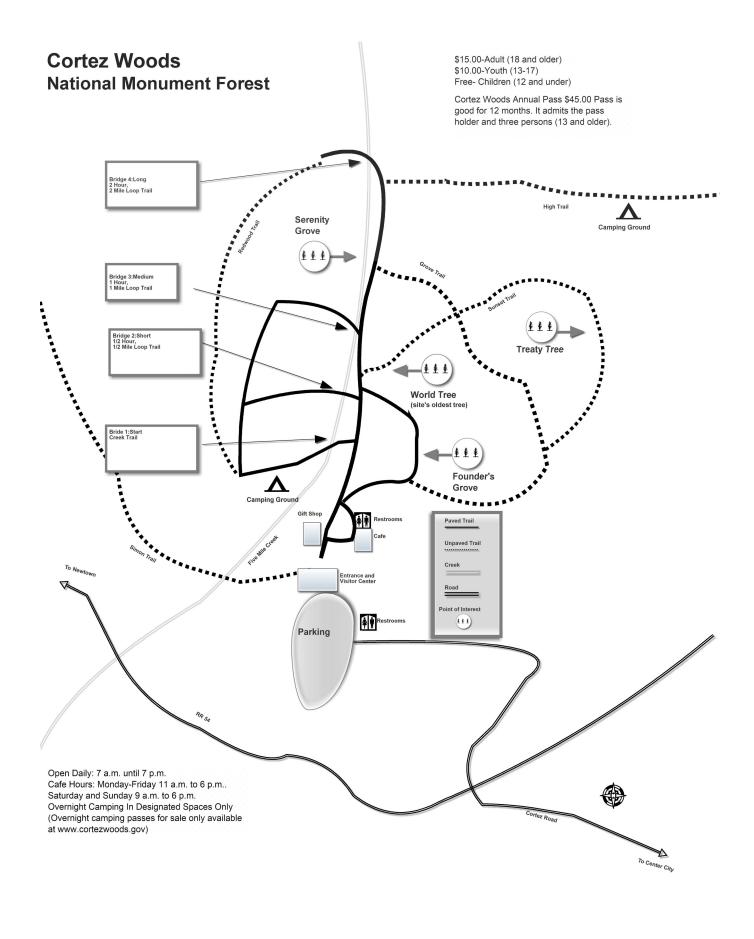
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Africa

- 1. How far is it from Bardai, Chad to Al Jawf, Libya?
 - a. About 350 kilometers
 - b. About 550 kilometers
 - c. About 750 kilometers
 - d. About 950 kilometers
- 2. Which nation has the highest population growth?
 - a. Ethiopia
 - b. Niger
 - c. South Africa
 - d. The World
- 3. Wetlands can be found in what country?
 - a. Algeria
 - b. Madagascar
 - c. Uganda
 - d. Tanzania
- 4. What city with a population of over one million is on the shores of the Indian Ocean?
 - a. Beira, Mozambique
 - b. Durban, South Africa
 - c. Port Elizabeth, South Africa
 - d. None of the above
- 5. The Atlas Mountains form the border between Algeria and what other country?
 - a. Libya
 - b. Mali
 - c. Morocco
 - d. Niger
- 6. Mount Tahat is located in what country?
 - a. Algeria
 - b. South Africa
 - c. Ethiopia
 - d. None of the above
- 7. Which of the following cities in Nigeria has the largest population?
 - a. Bauchi
 - b. Enugu
 - c. Ibadan
 - d. Iwo

- 8. How long is the Great Rift Valley?
 - a. About 1,500 miles
 - b. About 2,500 miles
 - c. About 4,500 miles
 - d. About 6,5000 miles
- 9. The Niger River connects with what other river in central Nigeria?
 - a. Bani
 - b. Benue
 - c. Gambia
 - d. Nile
- 10. What is the elevation level of Luanda, Angola?
 - a. Below sea level
 - b. 0-500 feet
 - c. 150-300 feet
 - d. 300 to 600 feet
- 11. The largest urban area is in what part of the continent?
 - a. North
 - b. South
 - c. East
 - d. West
- 12. What city is located at 9.14° N, 18.36° E?
 - a. Bangui, Central African Republic
 - b. Garoua, Cameroon
 - c. Sarh, Chad
 - d. None of the above
- 13. Which city gets the most precipitation?
 - a. Buchanan, Liberia
 - b. Luxor, Egypt
 - c. Oran, Algeria
 - d. Port Elizabeth, South Africa
- 14. Areas of urban land use can be found in what area of Algeria?
 - a. North
 - b. South
 - c. East
 - d. West
- 15. Which country has the lowest incidence of AIDS?
 - a. Congo
 - b. Egypt
 - c. Mali
 - d. Namibia

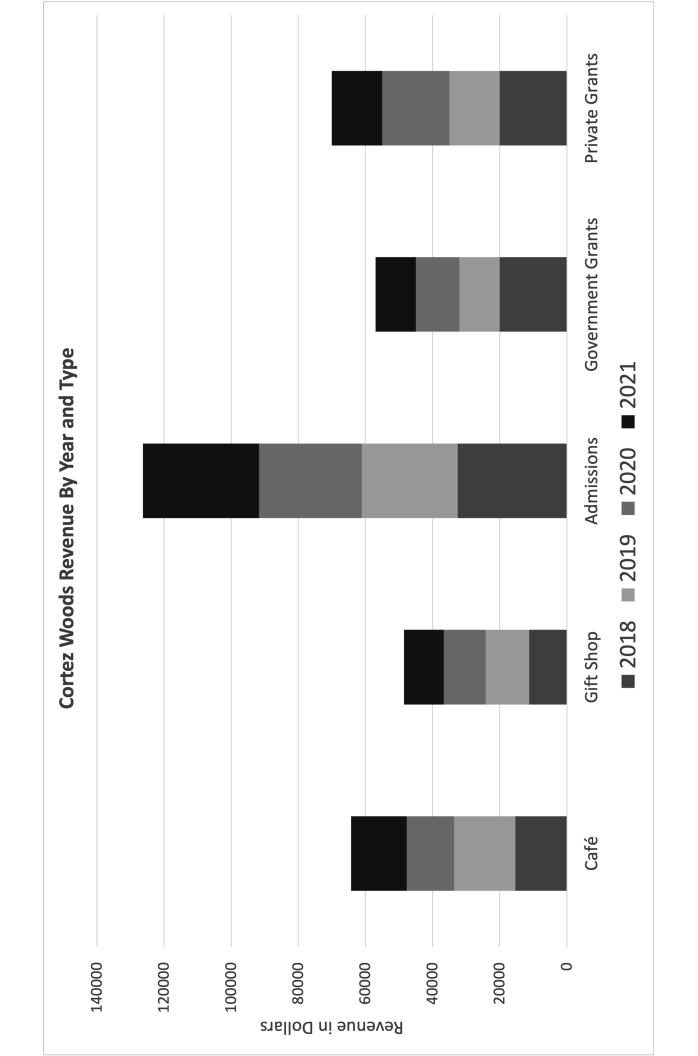


Cortez Woods

- 16. What does the light grey double line represent?
 - a. Paved trail
 - b. Unpaved trail
 - c. Creek
 - d. Road
- 17. What time does the café close on weekends?
 - a. 5 p.m.
 - b. 6 p.m.
 - c. 7 p.m.
 - d. Not indicated on map
- 18. Which trail runs mainly east and west?
 - a. Simon Trail
 - b. RR 54
 - c. Redwood Trail
 - d. None of the above
- 19. How do visitors driving in reach the parking area?
 - a. By heading southwest on RR 54
 - b. By heading northwest on RR 54
 - c. By heading southwest on Cortez Road
 - d. By heading northwest on Cortez Road
- 20. How many camping grounds are located west of the creek?
 - a. 0
 - b. 1
 - c. 2
 - d. 3
- 21. Which point of interest is located closest to the entrance?
 - a. Serenity Grove
 - b. World Tree
 - c. Treaty Tree
 - d. Founder's Grove

- 22. Which road leads to Newtown?
 - a. Cortez Road
 - b. RR 54
 - c. Simon Trail
 - d. None of the above
- 23. Which bridge takes visitors on the longest paved trail loop?
 - a. Bridge 2
 - b. Bridge 3
 - c. Bridge 4
 - d. Bridge 5
- 24. How many people over the age of twelve can enter daily on a single annual pass?
 - a. 1
 - b. 2
 - c. 3
 - d. 4
- 25. How many unpaved trails cross the creek?
 - a. 0
 - b. 1
 - c. 2
 - d. 4

- 26. The northern camping ground is accessible from a paved path.
- 27. Adult tickets cost twice as much as tickets for eighteen year olds.
- 28. The Cafe closes at 6 p.m. on Sundays.
- 29. Only three of the unpaved trails cross one another.
- 30. The Gift Shop is located directly across the creek from the café.



Cortez Woods Revenue

- 31. What does each differently shaded portion of a column represent?
 - a. The year
 - b. Source of income
 - c. The amount of income
 - d. None of the above
- 32. In what year did government grants generate the most revenue?
 - a. 2018
 - b. 2019
 - c. 2020
 - d. 2021
- 33. How many different sources of income are tracked on the graph?
 - a. 0
 - b. 3
 - c. 4
 - d. 5
- 34. In what year did the gift shop generate the least amount of revenue?
 - a. 2018
 - b. 2019
 - c. 2020
 - d. 2021
- 35. What single source of revenue generated the most money in 2019?
 - a. Cafe
 - b. Gift Shop
 - c. Government Grants
 - d. Private Grants
- 36. In how many years was revenue from admissions at least twice the amount of every other single source?
 - a. 0
 - b. 1
 - c. 3
 - d. 4

- 37. Which source of income generated the least amount of revenue over the time covered by the chart?
 - a. Cafe
 - b. Gift Shop
 - c. Government Grants
 - d. Private Grants
- 38. What year is represented on the bottom section of each column?
 - a. 2018
 - b. 2019
 - c. 2020
 - d. 2021
- 39. In how many years did the café generate more income than the gift shop?
 - a. 0
 - b. 1
 - c. 3
 - d. 4
- 40. Which source of income had the highest drop from 2020 to 2021?
 - a. Cafe
 - b. Gift Shop
 - c. Government Grants
 - d. Private Grants

- 41. Government grants peaked in 2018.
- 42. Admissions pulled in the most revenue every year.
- 43. Private grants never fell below the level of government grants.
- 44. The gift shop is the only source of income that fell below \$10,000 in a single year.
- 45. Total revenue for all sources combined exceeded \$50,000 every year.

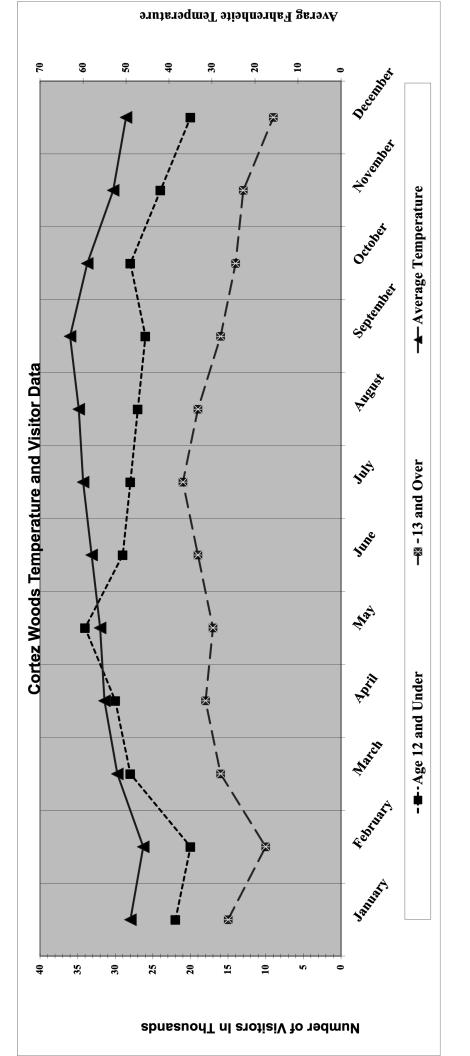
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South America

- 46. What is the main land cover type of the Amazon Basin?
 - a. Cropland
 - b. Grassland
 - c. Broadleaf forest
 - d. Tropical rain forest
- 47. Which of the following crops is grown at the lowest elevation?
 - a. Cacao
 - b. Coffee
 - c. Wheat
 - d. Barley
- 48. Which of the following countries has the highest percentage of indigenous South Americans?
 - a. Brazil
 - b. Bolivia
 - c. Peru
 - d. Venezuela
- 49. What Brazilian city of over one million is located on the shores of the Amazon River?
 - a. Fortaleza
 - b. Manaus
 - c. Porto Alegre
 - d. Santarem
- 50. San Ambrosio Island is a territory of what country?
 - a. Brazil
 - b. Chile
 - c. Guyana
 - d. Uruguay
- 51. Which of the following country capitals is nearest the equator?
 - a. Brazil
 - b. Colombia
 - c. Argentina
 - d. Ecuador

- 52. Tundra can be found in what country?
 - a. Argentina
 - b. Bolivia
 - c. Chile
 - d. All of the above
- 53. Which of the following resources can be found in Guyana?
 - a. Bauxite
 - b. Coal
 - c. Silver
 - d. Zinc
- 54. What is the population level of Cochabamba, Bolivia?
 - a. Under 100.000
 - b. 100,00 to 500,000
 - c. 500,000 to 1,000,000
 - d. Over 1,000,000
- 55. How many species of plants, animals and insects disappear every day due to deforestation?
 - a. Between 25 and 50
 - b. Between 50 and 100
 - c. Between 100 to 140
 - d. Over 200

- 56. Dry conditions in the Atacama Desert are caused by the warm Atlantic current.
- 57. Argentina is the largest country on the continent.
- 58. The Drake Passage is off the south coast of the continent.
- 59. Chile sends most of its exports to Japan.
- 60. The highest mountain peak on the continent is in Argentina.



Cortez Woods Temperature and Visitor Data

- 61. What does the line with the triangle represent?
 - a. The year
 - b. Visitors 12 and under
 - c. Visitors 13 and over
 - d. Average temperature
- 62. What month is the coldest in Cortez Woods?
 - a. January
 - b. February
 - c. October
 - d. November
- 63. What do the numbers on the left side of the y axis indicate?
 - a. The year
 - b. The month
 - c. The amount of visitors in thousands
 - d. The temperature
- 64. What year does the data represent?
 - a. 2018
 - b. 2019
 - c. 2020
 - d. Not indicated
- 65. In how many months were there more visitors thirteen and over than those twelve and under?
 - a. 0
 - b. 1
 - c. 2
 - d. 4
- 66. What month had the highest combined visitors?
 - a. March
 - b. May
 - c. August
 - d. October

- 67. Which month had the smallest difference between the two categories of visitors?
 - a. January
 - b. April
 - c. September
 - d. December
- 68. How many months had increases in both sets of visitors compared to the previous month?
 - a. 0
 - b. 1
 - c. 2
 - d. 4
- 69. In how many months did attendance for the twelve and under group fall below 2,500?
 - a. 0
 - b. 1
 - c. 2
 - d. 4
- 70. What is the range between the highest and lowest average temperature?
 - a. 12 degrees
 - b. 17 degrees
 - c. 22 degrees
 - d. 27 degrees

- 71. The highest temperature in a single day would have been 63 degrees.
- 72. Total attendance for the year for visitors twelve and under was above 300,000.
- 73. The month with the highest average temperature had the most visitors.
- 74. December was the month with the lowest attendance for 13 and over visitors.
- 75. Average temperatures fell every month after August.



University Interscholastic League

A+ Maps/Graphs/Charts Contest • 2022-2023 7/8 Fall/Winter District Answer Key

51. D

2. B	27. F	52. D
3. C	28. T	53. A
4. B	29. F	54. C
5. C	30. F	55. C
6. A	31. A	56. F
7. C	32. A	57. F
8. C	33. D	58. T
9. B	34. A	59. F
10. B	35. A	60. T
11. A	36. B	61. D
12. C	37. B	62. B
13. A	38. A	63. C
14. A	39. D	64. D
15. B	40. D	65. A
16. C	41. T	66. B
17. B	42. T	67. A
18. D	43. T	68. C
19. D	44. F	69. A
20. B	45. T	70. B
21. D	46. D	71. F
22. B	47. A	72. T
23. B	48. B	73. F
24. D	49. B	74. T
25. B	50. B	75. F

26. F

1. C

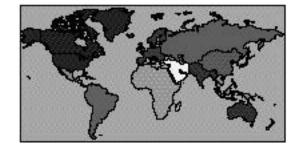
SPRING DISTRICT 2022-2023

A+ ACADEMICS









Maps, Graphs & Charts

grades 7 & 8

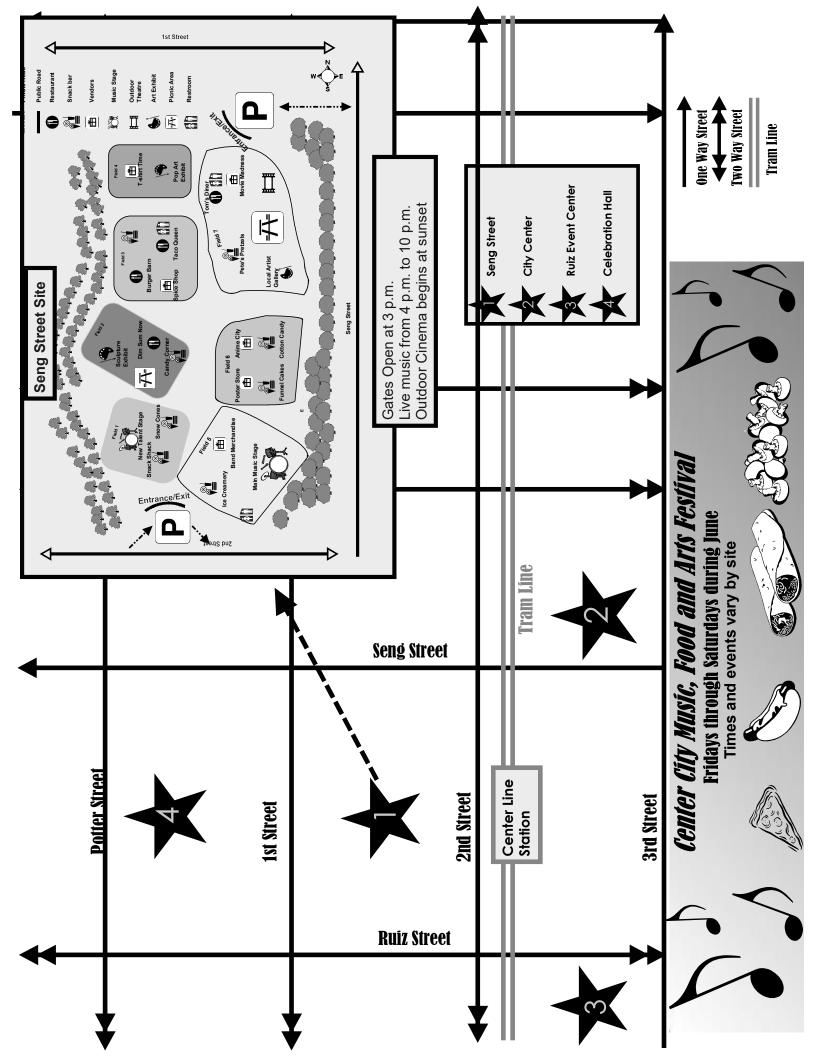
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Asia

- 1. What is the population of Kobe, Japan?
 - a. Over 3,000,000
 - b. 1,000,000 to 3,000,000
 - c. Under 1,000,000
 - d. Under 100,000
- 2. What is the predominant religion in Thailand?
 - a. Christianity
 - b. Islam
 - c. Buddhism
 - d. Hinduism
- 3. Which of the following countries has the highest population density?
 - a. Oman
 - b. Kazakhstan
 - c. India
 - d. Turkey
- 4. The Dzungarian Basin is located in what country?
 - a. China
 - b. Kazakhstan
 - c. Iran
 - d. Pakistan
- 5. Where is the lowest land on earth located?
 - a. Israel
 - b. China
 - c. Russia
 - d. Turkey
- 6. How far is it from the capital of North Korea to the capital of South Korea?
 - a. About 200 miles
 - b. About 400 miles
 - c. About 200 kilometers
 - d. About 600 kilometers
- 7. What is the land cover type of Oman?
 - a. Cropland
 - b. Grassland
 - c. Tundra
 - d. Desert and semi-desert

- 8. Which country produces the most oil?
 - a. Norway
 - b. Nigeria
 - c. Kuwait
 - d. Russia
- 9. China has a disputed border with which of the following countries?
 - a. Japan
 - b. Laos
 - c. Tajikistan
 - d. India
- 10. What is the largest (by population) city in China?
 - a. Harbin
 - b. Shanghai
 - c. Fuzhou
 - d. Urumqi
- 11. What is the elevation of Mount Everest?
 - a. 5,000 to 10,000 feet
 - b. 10,000 to 20,000 feet
 - c. 20,000 to 30,000 feet
 - d. Over 30,000 feet
- 12. The capital of what country is located on the Tropic of Capricorn?
 - a. Oman
 - b. China
 - c. Iraq
 - d. None of the above
- 13. What body of water lies between Asia and Africa?
 - a. Caspian Sea
 - b. Sea of Okhotsk
 - c. Red Sea
 - d. All of the above
- 14. Nicobar Island is a territory of what nation?
 - a. China
 - b. Indonesia
 - c. India
 - d. Pakistan
- 15. What river marks the continental divide within two transnational countries?
 - a. Syr Darya River
 - b. Krishna River
 - c. Ural River
 - d. None of the above

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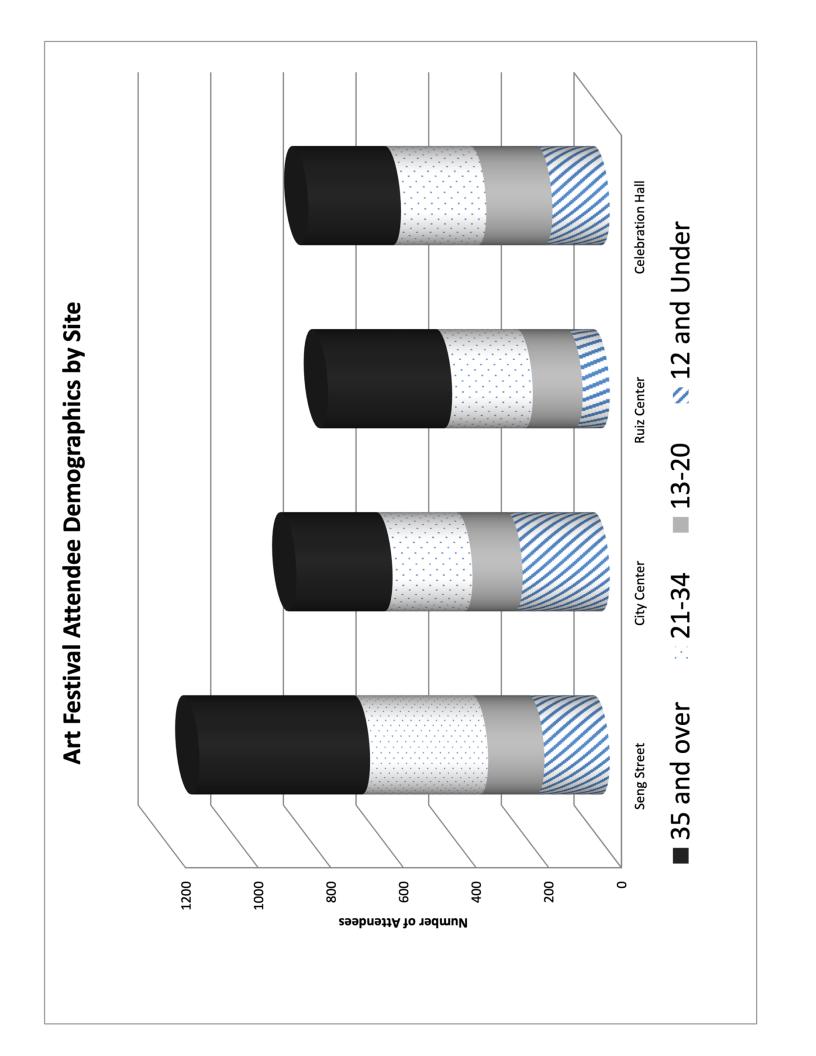


Center City Music, Food and Arts Festival

- 16. How many public one ways streets are indicated on the map?
 - a. 0
 - b. 1
 - c. 2
 - d. 3
- 17. How many festival sites are indicated on the map?
 - a. 1
 - b. 3
 - c. 4
 - d. 6
- 18. What direction does Seng Street run?
 - a. North and South
 - b. North only
 - c. South only
 - d. Not indicated on the map
- 19. How many restaurants are at the Seng Street site?
 - a. 0
 - b. 1
 - c. 2
 - d. 4
- 20. Over what amount of time will the festival be held?
 - a. Three days
 - b. One month
 - c. One week
 - d. One year
- 21. Which site is the furthest west?
 - a. Seng Street
 - b. City Center
 - c. Ruiz Event Center
 - d. Celebration Hall

- 22. From what street do visitors access the south parking lot at the Seng Street Site?
 - a. 1st Street
 - b. 2nd Street
 - c. Seng Street
 - d. Potter Street
- 23. What time do gates open and close at the Ruiz Event Center?
 - a. 3 p.m.
 - b. 4 p.m.
 - c. 5 p.m.
 - d. Not indicated on the map
- 24. How many music stages are at the Seng Street Site?
 - a. 1
 - b. 2
 - c. 3
 - d. 4
- 25. Which of the following can be found at every field at the Seng Street Site?
 - a. Snacks
 - b. Restaurants
 - c. Vendors
 - d. None of the above

- 26. The Central Line Station is located within one block of three of the festival sites.
- 27. Field 3 has the most restaurants.
- 28. There is a picnic area next to every restaurant at the Seng Street Site.
- 29. Movie Madness is the vendor that is located furthest south on the map.
- 30. The parking lots at the Seng Street site are accessed through public roads.



Art Festival Attendee Demographics by Site

- 31. What does each column represent?
 - a. The year
 - b. The specific site
 - c. The specific weekend
 - d. A particular age group
- 32. Which site had the highest number of total attendees?
 - a. Seng Street
 - b. City Center
 - c. Ruiz Center
 - d. Celebration Hall
- 33. What amount of time does the chart cover?
 - a. One week
 - b. One weekend
 - c. One year
 - d. Not indicated
- 34. Which age group had the highest amount of attendance at City Center?
 - a. 12 and under
 - b. 13-20
 - c. 21-34
 - d. 35 and over
- 35. Which age group had the highest attendance for all sites combined?
 - a. 12 and under
 - b. 13-20
 - c. 21-34
 - d. 35 and over
- 36. At how many sites did the 12 and under age group have the lowest attendance?
 - a. 0
 - b. 1
 - c. 2
 - d. 3

- 37. How many age groups at City Center had attendance above 200?
 - a. 0
 - b. 1
 - c. 2
 - d. 3
- 38. What does the top portion of each column represent?
 - a. 12 and under age group
 - b. 13-20 age group
 - c. 21-34 age group
 - d. None of the above
- 39. How many age groups had the highest level of attendance at Seng Street?
 - a. 0
 - b. 1
 - c. 2
 - d. 3
- 40. Which specified group had the highest attendance?
 - a. 12 and under at City Center
 - b. 13-20 at City Center
 - c. 21-34 at Ruiz Center
 - d. 35 and over at Ruiz Center

TRUE/FALSE

- 41. All sites drew in at least 800 attendees.
- 42. City Center was the most popular site for the 12 and under age group.
- 43. No age group ever fell below 100 attendees at any site.
- 44. Seng Street had more than twice the number of attendees in the 35 and over group than Celebration Hall.
- 45. At Ruiz Center, the number of attendees increased with each older age group.

Europe

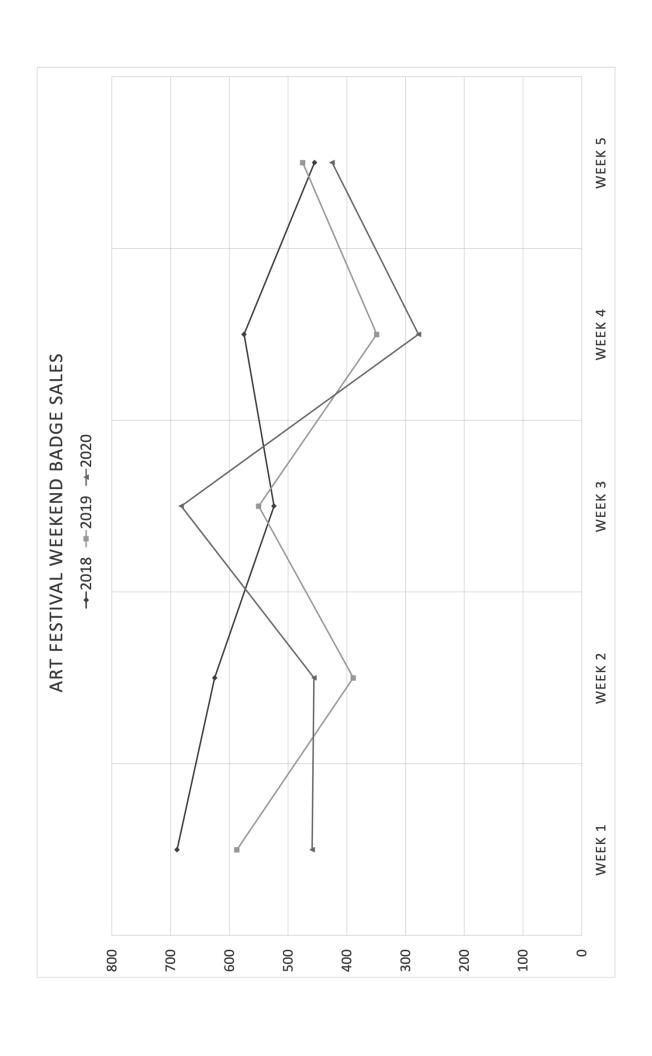
- 46. What amount of precipitation does Latvia receive?
 - a. 10 to 20 inches per year
 - b. 20 to 40 inches per year
 - c. 40 to 80 inches per year
 - d. Over 80 inches per year
- 47. What body of water lies between Ireland and the United Kingdom?
 - a. English Channel
 - b. Strait of Dover
 - c. St. George's Channel
 - d. North Sea
- 48. Which city in the United Kingdom has the largest population?
 - a. Exeter
 - b. Sheffield
 - c. Plymouth
 - d. Portsmouth
- 49. The Cantabrian Mountains are located in what country?
 - a. Russia
 - b. Norway
 - c. Spain
 - d. Italy
- 50. Which of the following countries is a candidate country for the European Union?
 - a. France
 - b. Turkey
 - c. Finland
 - d. Belarus
- 51. What country's capital is located at 42°N, 45°E?
 - a. Russia
 - b. Georgia
 - c. Iran
 - d. Armenia

- 52. Which of the following has the highest birth rate?
 - a. Albania
 - b. France
 - c. Russia
 - d. The World
- 53. The Northern European Plain is located in what country?
 - a. Ireland
 - b. Poland
 - c. Greece
 - d. Sweden
- 54. Which country gets the highest percentage of its energy from nuclear power?
 - a. France
 - b. Finland
 - c. Germany
 - d. Norway
- 55. What do the solid purple lines on the Land Cover Map indicate?
 - a. Changes in land cover type
 - b. International boundaries
 - c. Continental boundaries
 - d. Disputed or undefined boundaries

TRUE/FALSE

- 56. Southern Ireland is part of the United Kingdom
- 57. Reykjavik is the easternmost capital in Europe.
- 58. The second longest river in Europe flows through Slovakia.
- 59. The European Union gets most of its imports from the United States.
- 60. Bulgaria has a mostly marine climate

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Arts Festival Weekend Badge Sales

- 61. What amount of time does this graph cover?
 - a. One weekend
 - b. Five weeks
 - c. One year
 - d. Three years
- 62. What does the darkest line (with a diamond marker) represent?
 - a. Weekend 1
 - b. Weekend 2
 - c. 2018
 - d. 2019
- 63. What week did badge sales peak in 2018?
 - a. Week 1
 - b. Week 2
 - c. Week 3
 - d. Week 4
- 64. In how many years did Week 1 see more badge sales than Week 5?
 - a. 0
 - b. 1
 - c. 2
 - d. 3
- 65. Which year had the most badge sales?
 - a. 2018
 - b. 2019
 - c. 2021
 - d. Not indicated
- 66. Which year generated the most revenue?
 - a. 2018
 - b. 2019
 - c. 2021
 - d. Not indicated

- 67. In 2019, badge sales rose above 500 how many times?
 - a. 0
 - b. 1
 - c. 2
 - d. 3
- 68. Over the time covered by the graph, what weekend had the least amount of badge sales?
 - a. Week 1
 - b. Week 2
 - c. Week 3
 - d. Week 4
- 69. When did badge sales fall to their lowest point?
 - a. Week 1 2019
 - b. Week 4 2020
 - c. Week 3 2018
 - d. Week 1 2019
- 70. What weekend had the least variation from year to year?
 - a. Week 1
 - b. Week 2
 - c. Week 4
 - d. Week 5

TRUE/FALSE

- 71. Total sales in a year never fell below 2,000.
- 72. Week 1 badge sales fell every year.
- 73. Compared to other years, 2020 had the highest badge sales in only one weekend.
- 74. For all years combined, Week 3 had the most badge sales.
- 75. The x axis represents the year's data.



University Interscholastic League A+ Maps/Graphs/Charts Contest • 2022-2023 7/8 Spring Answer Key

1. B	26. T	51. B
2. C	27. T	52. D
3. C	28. F	53. B
4. A	29. F	54. A
5. A	30. F	55. B
6. C	31. B	56. F
7. D	32. A	57. F
8. D	33. D	58. T
9. D	34. D	59. F
10. B	35. D	60. F
11. C	36. C	61. D
12. D	37. D	62. C
13. C	38. D	63. A
14. C	39. C	64. D
15. C	40. D	65. A
16. D	41. F	66. D
17. C	42. T	67. C
18. B	43. F	68. D
19. D	44. F	69. B
20. B	45. T	70. D
21. D	46. B	71. T
22. B	47. C	72. T
23. D	48. B	73. T
24. B	49. C	74. T
25. D	50. B	75. F

CONTESTANT NUMBER:

FOR GRADER USE ONLY Score Test Below: ____out of 250. Initials____ __out of 250. Initials____ Papers contending to place: ___out of 250. Initials___ Out of 250. Initials____ out of 250. Initials____ out of 250. Initials____ Out of 250. Initials____ Out of 250. Initials_____ Out of 250. Initials_____ Out of 250. Initials_____ Out of 250. Initials_____ Out of 250. Initials______ Out of 250. Initials______ Out of 250. Initials______ Out of 250. Initials______ Out of 250. Initials_______ Out of 250. Initials_______ Out of 250. Initials_______ Out of 250. Initials________ Out of 250. Initials________

Write your contestant number in the upper right corner, and circle your grade below.

				Circ	le Gr	ade Level:		6	7		8	
1.	Α	В	С	D	Е		26.	Α	В	С	D	Е
2.	Α	В	С	D	Ε		27.	Α	В	С	D	Ε
3.	Α	В	С	D	Ε		28.	Α	В	С	D	Ε
4.	Α	В	С	D	Е		29.	Α	В	С	D	Ε
5.	Α	В	С	D	Е		30.	Α	В	С	D	Ε
6.	Α	В	С	D	Ε		31.	Α	В	С	D	Ε
7.	Α	В	С	D	Ε		32.	Α	В	С	D	Ε
8.	Α	В	С	D	Ε		33.	Α	В	С	D	Ε
9.	Α	В	С	D	Е		34.	Α	В	С	D	Ε
10.	Α	В	С	D	Е		35.	Α	В	С	D	Ε
11.	Α	В	С	D	Е		36.	Α	В	С	D	Ε
12.	Α	В	С	D	Е		37.	Α	В	С	D	Ε
13.	Α	В	С	D	Е		38.	Α	В	С	D	Ε
14.	Α	В	С	D	Е		39.	Α	В	С	D	Ε
15.	Α	В	С	D	Е		40.	Α	В	С	D	Е
16.	Α	В	С	D	Е		41.	Α	В	С	D	Ε
17.	Α	В	С	D	Е		42.	Α	В	С	D	Ε
18.	Α	В	С	D	Е		43.	Α	В	С	D	Ε
19.	Α	В	С	D	Е		44.	Α	В	С	D	Е
20.	Α	В	С	D	Е		45.	Α	В	С	D	Е
21.	Α	В	С	D	Е		46.	Α	В	С	D	Ε
22.	Α	В	С	D	Е		47.	Α	В	С	D	Е
23.	Α	В	С	D	Е		48.	Α	В	С	D	Е
24.	Α	В	С	D	Ε		49.	Α	В	С	D	Ε
25.	Α	В	С	D	Ε		50.	Α	В	С	D	Ε

INVITATIONAL 2022-2023

A+ ACADEMICS





Mathematics

DO NOT OPEN TEST UNTIL TOLD TO DO SO

2022 – 2023 University Interscholastic League JH/MS Mathematics Contest A

Evaluate: $36^{-0.5} - \frac{1}{4} + 2 \div 3$. (1)

A) $\frac{7}{12}$ B) $\frac{5}{6}$

C) $\frac{23}{36}$ D) $-5\frac{7}{12}$ E) $1\frac{2}{3}$

(2) 1 - 2 + 3 - 4 + 5 - 6 + 7 - 8 + 9 - 10 =

B) -5

C) 5

D) 30

E) None of these

Beth has $\frac{3}{4}$ pound of blueberries to make smoothies. She made the first batch with $\frac{1}{8}$ pound of the (3) blueberries. How many pounds of blueberries were left?

A) $\frac{3}{32}$

D) $\frac{7}{8}$ E) $\frac{1}{2}$

If the equation below is true, which of the following must also be true? (4)

A - B = C

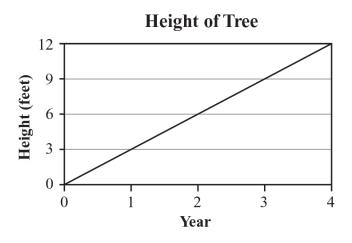
A) A - C = B

B) $\mathbf{C} + \mathbf{A} = \mathbf{B}$

C) $\mathbf{B} - \mathbf{A} = \mathbf{C}$

D) $\mathbf{A} + \mathbf{C} = \mathbf{B}$ E) $\mathbf{C} - \mathbf{B} = \mathbf{A}$

Genny planted a tree in her yard 4 years ago. She has recorded the height each year, which is shown in the (5) line graph below. Based on the graph, how tall will the tree be in the 6th year?



A) 13 feet

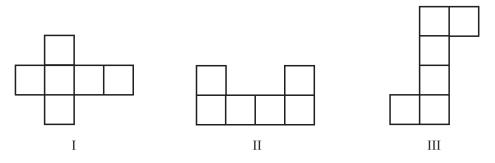
B) 15 feet

C) 16 feet

D) 18 feet

E) 20 feet

Which of these nets below, when folded, can produce a cube with no overlapping sides? (6)



A) I only

B) II only

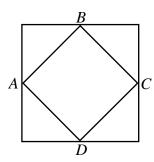
C) I and III

D) II and III

E) All of them

- (7) Four tenths plus two hundredths plus six thousandths equals what decimal?
 - A) 0.012
- B) 0.066
- C) 0.12
- D) 0.24
- E) 0.426

- $\frac{3}{2} \times \frac{4}{3} \times \frac{5}{4} \times \frac{6}{5} \dots \times \frac{2022}{2021} = ?$ (8)
- B) 1010
- C) 1011
- D) 2021
- E) 2022
- (9) Points A, B, C and D are midpoints of the sides of the larger square shown below. If the larger square has area 60, what is the area of the smaller square?



- A) 15
- B) 20
- C) 24
- D) 30
- E) 40

- (10) $\frac{1}{10} + \frac{2}{10} + \frac{3}{10} + \ldots + 1 = ?$
 - A) $4\frac{3}{5}$ B) $5\frac{1}{2}$
- C) $5\frac{3}{4}$
- D) 6
- E) 10

- $12^4 \div 5$ has a remainder of (11)
 - A) 0
- B) 1
- C) 2
- D) 3
- E) 4

- 29 % of what is equal to $7\frac{1}{4} \times 16\%$? (12)
 - A) 16
- B) 8
- C) 4
- D) 2
- E) 1
- How many two-digit numbers less than 50 have digits whose sum is a perfect square? (13)
 - A) 12
- B) 11
- C) 10
- D) 9
- E) 8
- If two numbers differ by 4 and their sum is 14, what is the product of the two numbers? (14)
 - A) 9
- B) 45
- C) 36
- D) 56
- E) 70

- The mean of 13, 25, 30, and 36 is (15)
 - A) 24
- B) 25
- C) 26
- D) $26\frac{1}{4}$
- E) 27

- What is the sum of the prime integers between 11 and 20? (16)
 - A) 32
- B) 39
- C) 42
- D) 47
- E) 49

- If x y = 3 and x + y = 12, then $x^2 y^2 =$ (17)
- B) 9
- C) 81
- D) 36
- E) 72

Page 3 – JH/MS Mathematics Test A $98^2 - 4 =$ (18)A) 9600 B) 1960 C) 9984 D) 9216 E) None of these What is the slope of the straight line $\frac{2}{3}x - 4y = 1$? (19)D) $\frac{1}{2}$ E) $\frac{1}{12}$ B) $\frac{1}{3}$ 4 gallons + 12 pints = ____quarts. (20)A) 18 B) 20 D) 24 C) 22 E) 30 (21)If one dozen peaches cost \$12.84, then 4 peaches would cost C) \$4.18 D) \$4.24 E) None of these A) \$3.76 B) \$3.88 11101 (base 2) = _____(base 8). A) 15 B) 40 (22)A) 15 C) 31 D) 35 E) 41 (23)What is the largest number that will divide evenly (no remainder) into the three numbers: 24, 40 and 64? A) 2 B) 4 C) 8 D) 12 E) 16 267419 divided by 11 has a remainder of (24)A) 2 B) 5 D) 10 E) None of these C) 6 When a fair six-sided die is tossed on a tabletop, the bottom face cannot be seen. What is the probability (25)that the product of the numbers on the five faces that can be seen is divisible by 6? A) $\frac{1}{3}$ D) $\frac{5}{6}$ E) 1 (26)If 20% of a number is 12, what is 30% of the same number? E) 30 A) 15 B) 18 C) 20 D) 24 What is the greatest common factor (GCF) of the two terms below? (27) $3x^2y$ and $12xy^2$ A) $3x^2y^2$ D) $12x^2y^2$ C) 12xy E) $12x^3y^3$ B) 3xy (28)Find the smallest positive integral value for k such that 374k is divisible by 6. A) 0 B) 1 C) 2 D) 3 E) 4 What is the unit's digits for 13^7 ? (29)B) 7 A) 3 C) 9 D) 5 E) 1 MDII + CX = _____ Arabic Numeral. (30)A) 1,216 B) 1,521 C) 1,110 D) 1,612 E) 1,608

(31) If 2x + 9 = 7 + 4x, then 4x - 1 =A) 3
B) 5
C) 2
D) 4
E) None of these

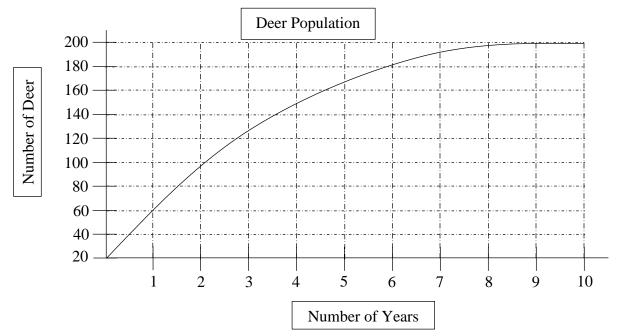
(32) $(2.6)^2 \div (1.3)^2 \times (2.5)^2 =$

(32) $(2.0) \div (1.3) \times (2.3) =$ A) 5 B) 10 C) 12.5 D) 15 E) 25

Page 4 – JH/MS Mathematics Test A

- 1.181818 . . . = _____(common fraction) (33)
- B) $\frac{2}{13}$
- C) $\frac{2}{11}$ D) $\frac{6}{5}$

Twenty deer of both sexes were relocated to a high-fenced 100-acre property that contained enough forage to support 200 deer. Dan kept track of the number of deer and created a graph of the total deer population over a 10-year period. Answer questions 34 – 38 based on this graph.



- During what year did the population of deer grow the least? (34)
 - A) year 10
- B) year 1
- C) year 3
- D) year 9
- E) year 2
- During the first year, by what percentage did the population of deer grow? (35)
 - A) 40%
- B) 60%
- C) 200%
- D) 300%
- E) 600%
- The deer population grew approximately by how many during the 5th year? (36)
 - A) 10 deer
- B) 20 deer
- C) 30 deer
- D) 170 deer
- E) 180 deer

- (37)What is the slope of the graph during the first year?
 - A) 60
- C) 40
- D) $\frac{1}{40}$
- How many more deer were there at the end of the 9th year than there were at the end of the 1st year? (38)
 - A) 200
- B) 180
- C) 160
- D) 140
- E) 120

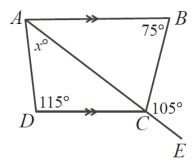
- (39) $345 \text{ (base 6)} - 154 \text{ (base 6)} = ____(\text{base 6)}.$
 - A) 151
- B) 251
- C) 161
- D) 261
- E) 211

- (40)What is the twelfth triangular number?
 - A) 144
- B) 78
- C) 12
- D) 156
- E) None of these

- (41) 0.41666...-0.1666...=
 - A) $\frac{1}{4}$
- B) $\frac{2}{3}$
- C) $\frac{1}{3}$
- D) $\frac{1}{6}$
- E) $\frac{7}{12}$
- (42) Distinct points are placed on a circle. Each pair of points is joined with a line segment. An example with 4 points and six line segments is shown below. If 8 distinct points are placed on a circle, how many line segments would there be?



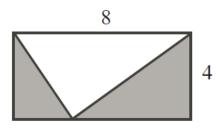
- A) 21
- B) 27
- C) 28
- D) 36
- E) 56
- (43) In the diagram below, AB is parallel to DC and ACE is a straight line. What is the value of x?



- A) 30°
- B) 35°
- C) 40°
- D) 45°
- E) 50°
- (44) A bicycle travels at a constant speed of 15 km/h. A bus starts 195 km behind the bicycle and catches up to the bicycle in 3 hours. What is the average speed of the bus in km/h?
 - A) 50 km/h
- $B)\ 60\ km/h$
- C) 65 km/h
- D) 70 km/h
- E) 80 km/h
- (45) Mackenzie lists the numbers 3, 4, 5, 6, 7, 8, and 9. In her list, what is the ratio of the number of prime numbers to the number of composite numbers?
 - A) 3:4
- B) 5:2
- C) 2:5
- D) 3:7
- E) 1:6
- (46) The mean (average) of a set of six numbers is 10. If the number 25 is removed from the set, what is the mean of the remaining numbers?
 - A) 6
- B) 7
- C) 8
- D) 9
- E) 10
- (47) Two 5-digit positive integers are formed using each of the digits from 0 through 9 once. What is the smallest possible positive difference between the two integers?
 - A) 229
- B) 247
- C) 249
- D) 269
- E) 469
- (48) If a pyramid has a square base, how many edges does the pyramid have?
 - A) 3
- B) 5
- C) 6
- D) 8
- E) 12

Page 6 – JH/MS Mathematics Test A

(49) The rectangle shown below has side lengths of 8 and 4. What is the area of the shaded part?



- A) 4
- B) 12
- C) 16
- D) 32
- E) 64
- (50) A pizza parlor prepared 39 pizzas to deliver. The first person delivered 7 pizzas and placed the rest of the pizza boxes on 4 shelves equally. Which equation could be used to find *n*, the total number of pizza boxes she put onto each shelf?

A)
$$n = (39 + 7) \div 3$$

B)
$$n = 39 - 7 \div 4$$

C)
$$n = 39 + (7 \times 4)$$

D)
$$n = (39 - 7) \div 4$$

E)
$$n = -39 - (7 \times 4)$$

2022 – 2023 University Interscholastic League JH/MS Mathematics Contest A – Key

- (1) A
- (2) B
- (3) B
- (4) A
- (5) D
- (6) C
- (7) E
- (8) C
- (9) D
- (10) B
- (11) B
- (12) C
- (13) D
- (14) B
- (15) C
- (16) E
- (17) D
- (18) A
- (19) C
- (20) C
- (21) E (\$4.28)
- (22) D
- (23) C
- (24) E (9)
- (25) E

- (26) B
- (27) B
- (28) E
- (29) B
- (30) D
- (31) A
- (32) E
- (33) A
- (34) A
- (35) C
- (36) B
- (37) C
- (38) D
- (39) A
- (40) B
- (41) A
- (42) C
- (43) B
- (44) E
- (45) A
- (46) B
- (47) B
- (48) D
- (49) C
- (50) D

FALL/WINTER DISTRICT 2022-2023

A+ ACADEMICS





Mathematics

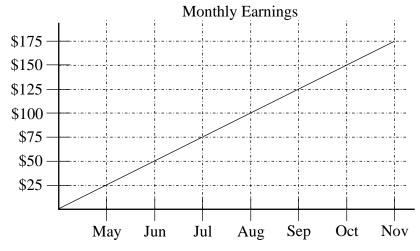
DO NOT OPEN TEST
UNTIL TOLD TO DO SO

2022 - 2023 University Interscholastic League JH/MS Mathematics Contest B

- (1) Evaluate: $12 \times (0.5)^{-1} \div 4$.
 - A) 24
- B) $1\frac{1}{2}$
- C) $1\frac{1}{4}$
- D) -6
- E) 6

- (2) $\frac{1}{2} \times \frac{2}{3} \times \frac{3}{4} \times \frac{4}{5} =$
 - A) $\frac{1}{10}$
- B) 1
- C) $\frac{1}{5}$
- D) $\frac{1}{4}$
- E) 5

- (3) 0.25% = (common fraction)
 - A) $\frac{1}{250}$
- B) $\frac{1}{25}$
- C) $\frac{1}{4}$
- D) $\frac{1}{400}$
- E) $\frac{1}{40}$
- (4) Which of the statements below is an example of the associative property?
 - A) X + Y = Y + X
 - B) 2(X + Y) = 2X + 2Y
 - C) $X^{-1} = \frac{1}{X}$
 - D) X + (Y + Z) = (X + Y) + Z
 - E) $X \times \frac{1}{X} = 1$
- (5) Each month Noah saved the money he earned for doing different jobs in his piggy bank every time he got paid. Based on the graph below, how much should he earn total for June, July, and August?



- A) \$50
- B) \$125
- C) \$225
- D) \$250
- E) \$275

- (6) What is 6050.287 rounded to the nearest ten?
 - A) 6050
- B) 6100
- C) 650.29
- D) 650.3
- E) None of these

- (7) What is 40% of 250?
 - A) 50
- B) 100
- C) 150
- D) 200
- E) 1,000

- (8) $6\frac{1}{4} \times 16 =$
 - A) 100
- B) 96
- C) 116
- D) 98
- E) 112

Page 2-JH/MS Mathematics Test B

(9)		s of apples at 75¢ per ount he paid for the a B) \$7.50		% off coupon when he D) \$2.75	e purchases the apples. E) \$3.00
(10)	$\frac{3}{2} \times \frac{4}{3} \times \frac{5}{4} \times \frac{6}{5} \dots$ A) 1,012	2023	C) 1,101	D) 2,201	E) 2,022
(11)	What value for w ma	akes this equation true 5 × 1	$e?$ $w = (5 \times 20) + (5 \times 3)$		
	A) 3	B) 20	C) 23	D) 27	E) 203
(12)	$\frac{1}{10} + \frac{3}{10} + \frac{1}{2} + \frac{7}{10}$	$\ldots + \frac{13}{10} = ?$			
	A) $3\frac{3}{5}$	B) $4\frac{9}{10}$	C) $4\frac{3}{5}$	D) $\frac{3}{5}$	E) $3\frac{9}{10}$
(13)	$10^7 \div 7$ has a remain A) 1	nder of B) 2	C) 3	D) 4	E) 5
(14)	$33\frac{1}{4}\%$ of 28 is equa	· ·			
	A) 56	B) 36	C) 14	D) 2	E) 1
(15)	What is the sum of t A) 5	he unique prime facto B) 6	ors of 24? C) 7	D) 9	E) 10
(16)	A whole number squ A) 4	uared times itself is 21 B) 5	16. What is the numb C) 6	er? D) 16	E) 36
(17)	The median of 13, 2	5, 29, and 36 is		•	
	A) $25\frac{3}{4}$	B) 26	C) $26\frac{1}{4}$	D) $26\frac{3}{4}$	E) 27
(18)	What is the largest p A) 23	orime number less that B) 29	t 40? C) 31	D) 37	E) 39
(19)	If $x = 21$, then $x^2 - 2$ A) 64	26x + 169 = B) 56	C) 49	D) 42	E) 36
(20)	$98^2 + 14^2 =$ A) 9,600	B) 1,960	C) 9,604	D) 1,120	E) None of these
(21)	65 (base 10) = A) 212	(base 3). B) 2012	C) 2102	D) 21 remainder 3	E) 23
(22)	What is the smallest A) 2	number that the three B) 48	e numbers: 12, 24 and C) 8	16, can divide evenly D) 72	/ into? E) 192

Page 3 – JH/MS Mathematics Test B

- What is the slope of the straight line $\frac{2}{3}x 6y = 12$? (23)B) $\frac{1}{4}$ C) $-\frac{1}{4}$ D) $-\frac{1}{2}$ (24)Paige has 5 classical CDs, 4 jazz CDs, and 11 rock CDs. If she randomly selects one CD from her collection to play, what is the probability that it is a classical CD? A) 0.20 B) 0.44 C) 0.55 D) 0.80 E) 0.25 (25)In how many ways can you arrange 5 books on a shelf? A) 5 B) 10 C) 25 D) 125 E) None of these (26)What is the remainder when 3857596 is divided by 11? A) 2 B) 5 C) 6 D) 8 E) 9 (27)Genny's candy jar contains 6 peppermint candies, 3 spearmint candies, and 3 wintergreen candies. The first candy she randomly picks from the jar is wintergreen. If it is not replaced, what is the probability the second candy she randomly picks from the jar will also be wintergreen? A) $\frac{1}{12}$ B) $\frac{1}{\epsilon}$ C) $\frac{1}{2}$ E) $\frac{2}{11}$ (28)Based on the angles given in the drawing below, what is the measure of $\angle QRS$? S R C) 112° D) 66° E) 57° A) 118° B) 114° (29)What is the least common Multiple (LCM) for the two terms below? $8x^2y$ and $12x^3y^2$ A) $2x^2y^2$ D) $2x^3v^2$ B) 2xy C) 12xy E) $24x^3v^2$ Find the smallest positive integral value for k such that 574k2 is divisible by 4. (30)A) 9 B) 7 C) 5 D) 3 E) 1 What is the unit's digits for 15^6 ? (31)C) 9 D) 5 A) 1 B) 7 E) 0 Three congruent circles with centers P, Q and R are tangent to the sides of rectangle as shown below. (32)
 - A) 16

rectangle?

- B) 24
- C) 32

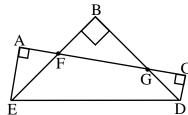
The circle centered at O has diameter 4 and passes through points P and R. What is the area of the

- D) 64
- E) 128

Page 4 – JH/MS Mathematics Test B

- (33) If 2x + y = 6 and 3x y = 14, then xy =
 - A) -8
- B) -6
- C) 8
- D) 6
- E) None of these

- (34) $(9.0)^2 \div (1.8)^2 \times (1.2)^2 =$
 - A) 2.4
- B) 36
- C) 6
- D) 24
- E) 300
- (35) In the figure below $\angle A$, $\angle B$, and $\angle C$ are each right angles. If $\angle AEB$ is 40° and $\angle BED = \angle BDE$, then what does $\angle CDE$ equal?



- A) 75°
- B) 80°
- C) 85°
- D) 90°
- E) 95°

- (36) 1.41666 . . . = _____(common fraction)
 - A) $\frac{7}{12}$
- B) $\frac{5}{12}$
- C) $\frac{17}{12}$
- D) $\frac{16}{9}$
- E) $\frac{17}{9}$

- (37) $33 \text{ (base 4)} + 44 \text{ (base 5)} + 55 \text{ (base 6)} = ____(\text{base 10)}.$
 - A) 132
- B) 131
- C) 39
- D) 74
- E) 75

- (38) What is the sum of the seventh and eighth triangular numbers?
 - A) 15
- B) 225
- C) 56
- D) 64
- E) None of these
- (39) What is the 100th digit to the right of the decimal point in the decimal form of $\frac{4}{37}$?
 - A) 0
- B) 1
- C) 3
- D) 8
- E) 9

(40) Students from three middle schools worked on a summer project.

Seven students from Obama Middle School worked for 3 days.

Four students from Lincoln Middle School worked for 5 days.

Five students from Richards Middle School worked for 9 days.

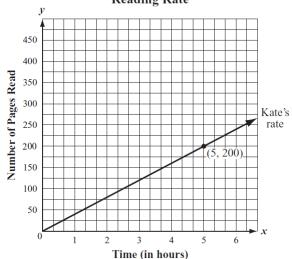
The total amount paid for the students' work was \$774. Assuming each student received the same amount for a day's work, how much did the students from Lincoln Middle School earn altogether?

- A) \$9.00
- B) \$48.38
- C) \$180.00
- C) \$193.50
- E) \$258.00
- (41) Suppose a new operation, \checkmark , is defined so that $a \checkmark b = a + b^2$. What is $(2 \checkmark 3) \checkmark 4$ equal?
 - A) 27
- B) 9
- C) 21
- D) 41
- E) 29

- (42) Which of the following statements is false?
 - A) Every number that is odd has a factor of 3.
 - B) Every prime number has exactly two factors.
 - C) Every perfect square has an odd number of factors.
 - D) Every number that has 8 as a factor also has 4 as a factor.
 - E) Every composite number can be written as the product of prime numbers.

Page 5 – JH/MS Mathematics Test B

Kate is reading a 500-page book. The graph below represents the relationship between the number of hours Kate has spent reading and the number of pages she has read. Please use this information plus the graph to answer questions 43 - 46. Reading Rate



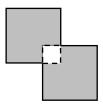
- At what rate, in pages per hour (Pgs/hr), is Kate reading? (43)
 - A) $\frac{1}{4}$ Pg/hr
- B) 50 Pgs/hr
- C) 4 Pgs/hr
- D) 40 Pgs/hr
- E) 75 Pgs/hr
- (44)What is the total amount of time, in hours, it will take Kate to read the entire 500-page book?
 - A) 11 hrs. 20 min. B) 12 hrs.
- C) 12 hrs. 30 min. D) 12 hrs. 45 min. E) 14 hrs.

- At her reading rate, how long does it take Kate to read a single page? (45)
 - A) 40 seconds
- B) 30 seconds
- C) 20 seconds
- D) 15 seconds
- E) 10 seconds
- Maryanne decides to read the same book later. If she can read at a rate that is 25% greater than Kate, how (46)long should it take her to finish reading the book?
 - A) 10 hours
- B) 11 hours
- C) 11 hrs. 15 min. D) 12 hours
- E) 12 hrs. 25 min.
- Four ping pong balls numbered 1, 2, 3, and 4 are placed in a bag and two are drawn at random without (47)replacement. What is the probability that their sum is an odd number?
 - A) $\frac{1}{3}$

- D) $\frac{7}{10}$

- If x y = 18 and $x^2 y^2 = 396$, then xy = A) 2 B) 20 (48)

- C) 21
- D) 22
- E) 40
- (49)A box contains 14 disks, each colored red, blue or green. There are twice as many red disks as green disks, and half as many blue as green. How many disks are green?
 - A) 2
- B) 4
- C) 6
- D) 8
- E) 10
- (50)Two identical squares, each with side length 5-cm, overlap as shown to the right. The shape of their overlap is a square, which has an area of 4-cm². What is the perimeter, in centimeters, of the shaded figure?
 - A) 24 cm
- D) 42 cm
- B) 32 cm
- E) 50 cm
- C) 40 cm



2022 – 2023 University Interscholastic League JH/MS Mathematics Contest B – Key

- (1) E
- (2) C
- (3) D
- (4) D
- (5) C
- (6) A
- (7) B
- (8) A
- (9) E
- (10) A
- (11) C
- (12) B
- (13) C
- (14) A
- (15) A
- (16) C
- (17) E
- (18) D
- (19) A
- (20) E (9800)
- (21) C
- (22) B
- (23) A
- (24) E
- (25) E (120)

- (26) C
- (27) E
- (28) B
- (29) E
- (30) E
- (31) D
- (32) C
- (33) A
- (34) B
- (35) E
- (36) C
- (37) D
- (-)
- (38) D
- (39) B
- (40) C
- (41) A
- (42) A
- (43) D
- (44) C
- (45) A
- (46) A
- (47) C
- (48) E
- (49) B
- (50) B

SPRING DISTRICT 2022-2023

A+ ACADEMICS





Mathematics

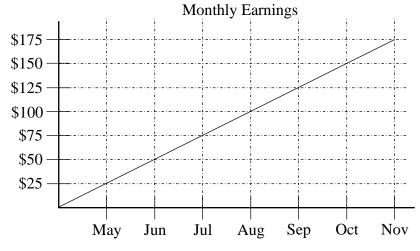
DO NOT OPEN TEST UNTIL TOLD TO DO SO

2022 – 2023 University Interscholastic League JH/MS Mathematics Contest C

- (1) Evaluate: $12^{-1} \times (0.5)^{-1} \times 60$.
 - A) 24
- B) $1\frac{1}{2}$
- C) 5
- D) $2\frac{1}{2}$
- E) None of these

- (2) $\frac{2}{3} \times \frac{3}{4} \times \frac{4}{5} \times \frac{5}{6} =$
 - A) $\frac{1}{6}$
- B) $\frac{1}{3}$
- C) $\frac{2}{5}$
- D) $\frac{1}{4}$
- E) 1

- (3) 4.4% =_____ (common fraction)
 - A) $\frac{11}{250}$
- B) $\frac{44}{25}$
- C) $\frac{1}{44}$
- D) $\frac{1}{440}$
- E) $\frac{1}{40}$
- (4) Which of the statements below is an example of the distributive property?
 - A) X + Y = Y + X
 - B) 2(X + Y) = 2X + 2Y
 - C) $X^{-1} = \frac{1}{X}$
 - D) X + (Y + Z) = (X + Y) + Z
 - E) $X \times \frac{1}{X} = 1$
- (5) Each month Wesley saved the money he earned for doing different jobs in his piggy bank every time he got paid. Based on the graph below, how much how should he earn total for May, June, and July?



- A) \$150
- B) \$125
- C) \$225
- D) \$250
- E) \$275

- (6) What is 6050.287 rounded to the nearest tenth?
 - A) 6,050
- B) 6,100
- C) 6,050.29
- D) 6,050.3
- E) 6,051

- (7) What is 80% of 250?
 - A) 50
- B) 100
- C) 150
- D) 200
- E) 1,000

- (8) $6\frac{1}{4} \times 40 =$
 - A) 240
- B) 10
- C) 280
- D) 28
- E) 250

Page 2-JH/MS Mathematics Test C

(9)	• •	s of apples at 60¢ per ount he paid for the ap	_	off coupon when he	purchases the apples.
	A) \$3.00	B) \$3.60	C) \$2.60	D) \$2.40	E) \$4.00
(10)	$\frac{3}{2} \times \frac{4}{3} \times \frac{5}{4} \times \frac{6}{5} \dots$ A) 3,960		C) 495	D) 1,981	E) 990
(11)	What value for w ma	lkes this equation true $8 \times \nu$? $v = (8 \times 20) - (8 \times 4)$		
	A) 24	B) 16	C) 22	D) 20	E) 128
	$\frac{2}{10} + \frac{4}{10} + \frac{6}{10} + \frac{8}{10}$				
	A) $4\frac{3}{5}$	B) $4\frac{2}{5}$	C) $3\frac{3}{5}$	D) $5\frac{3}{5}$	E) $3\frac{9}{10}$
(13)	4 ¹⁰ ÷ 11 has a remain A) 1	nder of B) 2	C) 3	D) 4	E) 5
(14)	$18\frac{2}{3}\%$ of 15 is equal	to 56% of what?			
	A) 75	B) 60	C) 45	D) 25	E) 5
(15)	What is the sum of the A) 7	he unique prime facto B) 14	rs of 70? C) 12	D) 21	E) 15
(16)	A whole number squ A) 3	nared times itself is 34 B) 5	3. What is the number C) 6	er? D) 7	E) 49
(17)	What is the median of	of 12, 24, 36, and 28?			
	A) 25	B) 26	C) $25\frac{1}{4}$	D) $25\frac{3}{4}$	E) 27
(18)	What is the smallest A) 73	prime number greater B) 77	that 70? C) 78	D) 79	E) None of these
(19)	If $x = 17$, then $x^2 + 2$ A) 30	6x + 169 = B) 90	C) 900	D) 1,032	E) 1,690
(20)	$13^2 + 26^2 =$ A) 845	B) 676	C) 689	D) 1,352	E) 1,521
(21)	59 (base 10) = A) 192	(base 3). B) 2012	C) 212	D) 19 remainder 2	E) 2102
(22)	What is the smallest A) 2	number that the three B) 4	numbers: 18, 12 and C) 6	24, can divide evenly D) 48	into? E) 72

Page 3 – JH/MS Mathematics Test C

- What is the slope of the straight line $\frac{3}{4}x 6y = 12$? (23)D) $\frac{1}{9}$ A) -8 (24)Paige has 8 classical CDs, 7 jazz CDs, and 5 rock CDs. If she randomly selects one CD from her collection to play, what is the probability that it is a rock CD? A) 0.05 B) 0.50 C) 0.25 D) 0.20 E) 0.16 (25)In how many ways can you arrange 6 books on a shelf? B) 360 C) 250 D) 36 E) 30 A) 720 (26)What is the remainder when 1234567 is divided by 11? A) 1 B) 2 C) 3 D) 4 E) 6 Genny's candy jar contains 6 peppermint candies, 3 spearmint candies, and 3 wintergreen candies. The first (27)candy she randomly picks from the jar is peppermint. If it is not replaced, what is the probability the second candy she randomly picks from the jar will also be peppermint? A) $\frac{1}{3}$ E) $\frac{1}{6}$ Based on the angles given in the drawing below, what is the measure of $\angle QRS$? (28)S R B) 128° A) 110° C) 112° D) 62° E) 42° (29)What is the least common Multiple (LCM) for the two terms below? 16 x^2y^3 and 12 x^3y^2 C) $4x^2y^2$ A) $2x^2y^2$ D) $48x^3v^3$ E) $24x^3v^3$ B) 4xy Find the smallest positive integral value for k such that 772k5is divisible by 3. (30)A) 0 B) 1 C) 3 D) 6 E) 9 What is the unit's digits for 12^8 ? (31)A) 1 B) 2 C) 4 D) 5 E) 6 Three congruent circles with centers P, Q and R are tangent to the sides of rectangle as shown below. (32)The circle centered at Q has diameter 6 and passes through points P and R. What is the area of the
 - A) 12

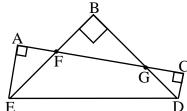
rectangle?

- B) 24
- C) 36
- D) 64
- E) 72

Page 4 – JH/MS Mathematics Test C

- (33) If 2x + y = 11 and 3x y = 14, then xy =
 - A) -5
- B) -6
- C) 5
- D) 6
- E) None of these

- $(34) \quad (1.5)^2 \div (4.5)^2 \times (1.8)^2 =$
 - A) 2.4
- B) 3.6
- C) 0.02
- D) 0.36
- E) 0.04
- (35) In the figure below $\angle A$, $\angle B$, and $\angle C$ are each right angles. If $\angle AEB$ is 35° and $\angle BED = \angle BDE$, then what is $\angle CDE$ equal?



- A) 75°
- B) 100°
- C) 30°
- D) 80°
- E) 120°

- (36) 1.1333 . . . = _____(common fraction)
 - A) $\frac{2}{15}$
- B) $\frac{17}{15}$
- C) $\frac{7}{15}$
- D) $\frac{13}{9}$
- E) $\frac{13}{15}$

- (37) $44 \text{ (base 5)} + 55 \text{ (base 6)} + 66 \text{ (base 7)} = ____ \text{(base 10)}.$
 - A) 107
- B) 165
- C) 156
- D) 83
- E) 104

- (38) What is the sum of the ninth and tenth triangular numbers?
 - A) 100
- B) 90
- C) 81
- D) 19
- E) None of these
- (39) What is the 100th digit to the right of the decimal point in the decimal form of $\frac{11}{37}$?
 - A) 0
- B) 1
- C) 2
- D) 7
- E) 9

(40) Students from three middle schools worked on a summer project.

Seven students from Obama Middle School worked for 3 days.

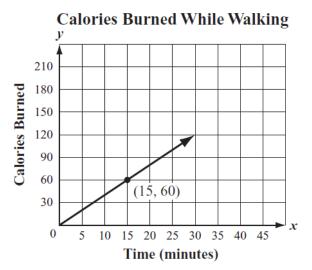
Four students from Lincoln Middle School worked for 5 days.

Five students from Richards Middle School worked for 9 days. The total amount paid for the students' work was \$774. Assuming each student received the same amount for a day's work, how much did the students from Richards Middle School earn altogether?

- A) \$45.00
- B) \$405.00
- C) \$180.00
- C) \$81.00
- E) \$181.00
- (41) Suppose a new operation, $\mathbf{\Psi}$, is defined so that $\mathbf{a} \mathbf{\Psi} \mathbf{b} = \mathbf{a}^2 \mathbf{b}^2$. What is $(2 \mathbf{\Psi} 3) \mathbf{\Psi} \mathbf{4}$ equal?
 - A) -9
- B) 9
- C) 4
- D) 25
- E) 32

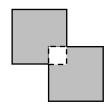
- (42) Which of the following statements is false?
 - A) Every number that is odd has a factor of 1.
 - B) Every prime number has exactly two factors.
 - C) Every perfect square has an even number of factors.
 - D) Every number that has 8 as a factor also has 4 as a factor.
 - E) Every composite number can be written as the product of prime numbers.

The graph below shows the number of Calories Matthew will burn over time while walking at a constant rate. Please use this information plus the graph to answer questions 43 - 46.



- (43) At what rate, in calories per minute (Cal/min), is Matthew burning?
 - A) $\frac{1}{4}$ Cal/min
- B) 75 Cal/min
- C) 4 Cal/min
- D) 40 Cal/min
- E) 0.4 Cal/min
- (44) What is the number of Calories Matthew will burn after walking at a constant rate for 42 minutes?
 - A) 168 Calories
- B) 210 Calories
- C) 132 Calories
- D) 162 Calories
- E) 630 Calories
- (45) At his Calorie burning rate, how long does it take Matthew to burn a single Calorie?
- A) 2.5 seconds
- B) 4 seconds
- C) 6.6 seconds
- D) 15 seconds
- E) 25 seconds
- (46) Mike, Matthew's older brother, decides to exercise by walking as well. If he can walk at a rate that burns 25% more Calories per minute than Matthew, how long should it take him to burn 100 Calories?
 - A) 4 minutes
- B) 5 minutes
- C) 6 minutes
- D) 20 minutes
- E) 25 minutes
- (47) Four ping pong balls numbered 1, 2, 3, and 4 are placed in a bag and two are drawn at random without replacement. What is the probability that their sum is an even number?
 - A) $\frac{7}{10}$
- B) $\frac{1}{2}$
- C) $\frac{2}{3}$
- D) $\frac{1}{3}$
- E) $\frac{4}{5}$

- (48) If x y = 18 and $x^2 y^2 = 216$, then xy =
 - A) 15
- B) 45
- C) 30
- D) -30
- E) -45
- (49) A box contains 21 disks, each colored red, blue or green. There are twice as many red disks as green disks, and half as many blue as green. How many disks are green?
 - A) 2
- B) 4
- C) 6
- D) 8
- E) 10
- (50) Two identical squares, each with side length 8-cm, overlap as shown to the right. The shape of their overlap is a square, which has an area of 9-cm². What is the perimeter, in centimeters, of the shaded figure?
 - A) 20 cm
- D) 52 cm
- B) 32 cm
- E) 55 cm
- C) 42 cm



2022 – 2023 University Interscholastic League JH/MS Mathematics Contest C – Key

(1) E (10)

(2) B

(3) A

(4) B

(5) A

(6) D

(7) D

(8) E

(9) D

(10) E

(11) B

(12) D

(13) A

(14) E

(15) B

(16) D

(17) B

(18) E (71)

(19) C

(20) A

(21) B

(22) E

(23) D

(24) C

(25) A

(26) D

(27) B

(28) A

(29) D

(30) A

(31) E

(32) E

(33) C

(34) D

(35) B

(36) B

(37) A

(38) A

(39) C

(40) B

(41) B

(42) C

(43) C

(44) A

(45) D

(46) D

(47) D

(48) E

(49) C

(50) D

University Interscholastic League 2022 – 2023 Junior High Number Sense Test A

Contestant's Number		Final		
		$2^{\rm nd}$		
Read Directions Carefully	Do Not Unfold This Sheet	1^{st}		T '4' 1
Before Beginning Test	Until Told to Begin		Score	Initials

Directions: Do not turn this page until the person conducting this test gives the signal to begin. This is a ten-minute test. There are 80 problems. Solve accurately and quickly as many as you can in the order in which they appear. **ALL PROBLEMS ARE TO BE SOLVED MENTALLY**. Make no calculations with paper and pencil. Write only the answer in the space provided at the end of each problem. Problems marked with a (*) require approximate integral answers; any answer to a starred problem that is within five percent of the exact answer will be scored correct; all other problems require exact answers.

The person conducting this contest should explain these directions to the contestants.

Stop – Wait for Signal!

(1)	23 + 51 =	*(20)	111.111% × 899 =
(2)	18 × 5 =	(21)	$0.75 \times 16 - 0.5 \times 16 =$
(3)	79 – 26 =	(22)	111 × 135 =
(4)	1203 ÷ 3 =	(23)	If $f(x) = 10 - 3x^2$, then $f(-2) =$
(5)	$\frac{3}{8} + \frac{1}{4} = $	(24)	$8\frac{1}{3} \times 8\frac{2}{3} = \underline{\qquad} \text{(mixed number)}$
(6)	24 ÷ 0.5 =	(25)	$7\frac{3}{4} - 4\frac{5}{6} = $
(7)	40 × 0.25 =	(26)	$29^2 + 29 = $
(8)	24 ² =	(27)	The cube root of -125 is
(9)	11 × 5 × 2 =	(28)	If n is to 20 as 12 is to 4, then $n = $
*(10)	21 + 2022 + 23 + 2023 =	(29)	If $12 - 4x$ is 4 then $x = $
(11)	1.75 × 8 =	*(30)	2023 + 2022 × 4 =
(12)	The mode of 2, 6, 8, 2, 6 and 2 is	(31)	93 × 92 =
(13)	Which is larger: $\frac{6}{11}$ or 0.55?	(32)	The product of the two largest prime numbers less than 20 is
(14)	15 × 35 =	(33)	If $0.025 + 0.075 = n$, the $n^{-1} = $
(15)	38 × 78 =	(34)	18 is divisible by how many whole numbers?
(16)	97 – 12 – 18 =	(35)	1 square mile =acres
(17)	43 ² =	(36)	4 percent = (common fraction)
(18)	9 + 14 + 19 + 24 + 29 =	(37)	The total cost of item, that costs \$10, with a sales tax
(19)	MCMLI = (Arabic Numeral)		of $8\frac{1}{2}\%$ is \$

(38)	231 × 101 =
(39)	The area of an equilateral triangle with an altitude of
	6-cm is $a\sqrt{3}$ and $a = \underline{}$ cm ²
*(40)	$125\sqrt{14400} = $
(41)	63 (base 8) = (base 2)
(42)	$5^3 + 3^3 =$

(44) What is the area of a trapezoid with base 17, 16 and height 20?

The GCF of 6, 12 and 18 is_____

(43)

- (45) $23 \text{ (base 5)} \times 2 \text{ (base 5)} =$ (base 5)
- (46) If $24 \div 3 = \mathbf{n} \div 2$, then $\mathbf{n} =$ _____
- (47) What is the length of an edge of a cube with surface area 864?
- (48) $1.5 \text{ m}^2 = \underline{\text{cm}^2}$
- (49) If 24 3x < 18, then 2x >
- *(50) $55^3 =$ _____
- (51) In the sequence: 1, 4, a, 16, 25, b, 49, ... $2a b = \underline{\hspace{1cm}}$
- (52) What is the 6^{th} term in the sequence 2, 4, 6, ...?
- (53) What is the sum of the interior angles for a convex polygon with 5 sides? _____ °
- (54) What is the product of the LCM and GCD of 18 and 20?
- (55) What is the length of the side of a rectangle with perimeter 44 and width 8?
- (56) What is the diameter of a circle with an area of 576π ?
- (57) If set $\mathbf{A} = \{1, 2, 3, ..., 19\}$ and set $\mathbf{B} = \{3, 6, 9, ..., 21\}$, then the number of elements in $\mathbf{A} \cap \mathbf{B}$ is _____
- (58) $(13^2 + 7 \times 6) \div 5$ has a remainder of _____

- (59) The number of faces for a cube is _____
- *(60) $749^2 \times 101 \div 251 =$ _____
- (61) $(2^{-1} + 2^{-2})^{-1} = \underline{\hspace{1cm}}$
- (62) 440 yards = _____ mile
- (63) 60 feet/sec = ______yards/min
- (64) 18% of 18 = _____
- (65) $5^7 \div 7$ has a remainder of _____
- (66) If the volume of a right circular cylinder, with radius 4 and length 12 is $\mathbf{k}\pi$, what is \mathbf{k} ?
- (67) The sum of the positive divisors of 12 is _____
- (68) 6! = _____
- (69) $6\frac{3}{4} \div \frac{1}{8} =$ _____
- *(70) $350\pi^3 =$
- $(71) 21^2 + 3^2 = \underline{\hspace{1cm}}$
- (72) $62\frac{1}{2}\% =$ (common fraction)
- (73) 0.4666 . . . = _____ (common fraction)
- (74) The volume of a right circular cone with height 9 and radius 4 is $k\pi$, and k =______
- (75) The sum of the 4th and 5th triangular numbers is _____
- $(76) 18^2 \times 25 = \underline{\hspace{1cm}}$
- (77) If the shortest distance between the points (0, 3) and (x, 0) is 5, what is x?
- $(78) \qquad \frac{5!}{3!} 15 = \underline{\hspace{1cm}}$
- (79) $\left(18\frac{1}{2}\right)^2 \left(6\frac{1}{2}\right)^2 = \underline{\hspace{1cm}}$
- *(80) 25 miles = ______yards

2022 - 2023 University Interscholastic League Junior High Number Sense Test A - Key

(1) 74

(2) 90

(3) 53

(4) 401

(5) $\frac{5}{8}$; .625

(6) 48

(7) 10

(8) 576

(9) 110

*(10) 3885 – 4293

(11) 14

(12) 2

(13) .55; $\frac{11}{20}$

(14) 525

(15) 2964

(16) 67

(17) 1849

(18) 95

(19) 1951

*(20) 949 – 1048

(21)

(22) 14985

(23) -2

(24) $72\frac{2}{9}$

 $(25) \quad 2\frac{11}{12}; \ \frac{35}{12}$

(26) 870

(27) -5

(28) 60

(29) 2

*(30) 9606 – 10616

(31) 8556

(32) 323

(33) 10

(34) 6

(35) 640

(36) $\frac{1}{25}$

(37) 10.85

(38) 23331

(39) 12

*(40) 14250 – 15750

(41) 110011

(42) 152

(43) 6

(44) 330

(45) 101

(46) 16

(47) 12

(48) 15000

(49) 4

*(50) 158057 – 174693

(51) -18

(52) 12

(53) 540

(54) 360

(55) 14

(56) 48

(57) 6

(58) 1

(59)

*(60) 214455 - 237028

(61) $1\frac{1}{3}; \frac{4}{3}$

(62) $\frac{1}{4}$; .25

(63) 1200

(64) $3.24; 3\frac{6}{25}; \frac{81}{25}$

(65) 5

(66) 192

(67) 28

(68) 720

(69) 54

*(70) 10310 - 11394

(71) 450

(72) $\frac{5}{8}$

(73) $\frac{7}{15}$

(74) 48

(75) 25

(76) 8100

(77) 4

(78) 5

(79) 300

*(80) 41800 – 46200

Note: *(Number) x – y means an integer between x and y inclusive. If an answer is of the type like $\frac{2}{3}$ it cannot be written as .666... or $\overline{.6}$.

University Interscholastic League 2022 – 2023 Junior High Number Sense Test B

Contestant's Number		Final		
		$2^{\rm nd}$		
		1 st		
Read Directions Carefully	Do Not Unfold This Sheet	_	Score	Initials
Before Beginning Test	Until Told to Begin		Score	Illitiais

Directions: Do not turn this page until the person conducting this test gives the signal to begin. This is a ten-minute test. There are 80 problems. Solve accurately and quickly as many as you can in the order in which they appear. **ALL PROBLEMS ARE TO BE SOLVED MENTALLY**. Make no calculations with paper and pencil. Write only the answer in the space provided at the end of each problem. Problems marked with a (*) require approximate integral answers; any answer to a starred problem that is within five percent of the exact answer will be scored correct; all other problems require exact answers.

	The person conducting this contest sho Stop - V	ould explain thes Vait for Signal	
(1)	353 + 51 =	*(20)	222.222% × 269 =
(2)	17 × 7 =	(21)	$0.25 \times 12 + 0.5 \times 12 =$
(3)	84 – 36 =	(22)	423 × 111 =
(4)	120 ÷ 8 =	(23)	If $f(x) = 15 + 2x^2$, then $f(6) =$
(5)	$\frac{7}{16} + \frac{1}{4} = $	(24)	$4\frac{4}{5} \times 4\frac{1}{5} = \underline{\qquad} \text{(mixed number)}$
(6)	32 ÷ 0.8 =	(25)	$3\frac{5}{6} + 2\frac{2}{3} = $
(7)	0.25 × 44 =	(26)	$89^2 + 89 = $
(8)	21 ² =	(27)	The cube root of -216 is
(9)	8 × 6 × 5 =	(28)	If n is to 12 as 3 is to 4, then $n = $
*(10)	1981 + 2202 + 18 + 2203 =	(29)	If $16 + 4x$ is 24 then $x = $
(11)	1.5 × 22 =	*(30)	2022 × 5 – 2023 =
(12)	The mode of 1, 3, 5, 4, 1 and 2 is	(31)	105 × 102 =
(13)	Which is smaller: $\frac{7}{11}$ or 0.64?	(32)	The sum of the two largest prime numbers less than 60 is
(14)	83 × 87 =	(33)	If $0.75 + 0.5 = n$, the $n^{-1} = $
(15)	24 × 12 =	(34)	24 is divisible by how many whole numbers?
(16)	121 – 29 – 21 =	(35)	Three-fourths of a square mile =acres
(17)	72 ² =	(36)	8 percent = (common fraction)
(18)	7 + 12 + 17 + 22 + 27 =	(37)	The total cost of item, that costs \$100, with a sales
(19)	MMXXI =(Arabic Numeral)	(31)	tax of $8\frac{1}{2}$ % is \$

(38)	101 × 483 =
(39)	The area of an equilateral triangle with an altitude of
	9-cm is $a\sqrt{3}$ and $a = \underline{\text{cm}^2}$
*(40)	$250\sqrt{16900} = $
(41)	46 (base 8) = (base 2)
(42)	$4^3 - 3^2 =$
(43)	The GCF of 8, 24 and 18 is
(44)	What is the area of a trapezoid with base 14, 16 and height 15?
(45)	13 (base 4) × 2 (base 4) = (base 4)
(46)	If $15 \div 3 = \mathbf{n} \div 6$, then $\mathbf{n} = \phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$
(47)	What is the length of an edge of a cube with surface area 150?
(48)	$0.25 \text{ m}^2 = \underline{\qquad \qquad } \text{cm}^2$
(49)	If $15 - 4x < 43$, then $2x > $
*(50)	25 ³ =
(51)	In the sequence: 1, 3, a , 7, 9, b , 13, $a + b^2 =$
(52)	What is the 5 th term in the sequence 1, 4, 9,?
(53)	What is the sum of the interior angles for a convex polygon with 6 sides?°
(54)	What is the product of the LCM and GCD of 16 and 24?
(55)	What is the length of the side of a rectangle with

perimeter 32 and width 5?

What is the radius of a circle with a circumference of

If set $\mathbf{A} = \{1, 2, 3, ..., 19\}$ and set $\mathbf{B} = \{2, 4, 6, ...$

., 20}, then the number of elements in $\mathbf{A} \cap \mathbf{B}$ is _____

 $(14^2 + 8 \times 9) \div 6$ has a remainder of _____

(56)

(57)

(58)

*(60)	$7/2^2 \times 101 \div 36 =$
(61)	$(2^{-3} + 2^{-1})^{-1} =$
(62)	880 yards = mile
(63)	30 feet/min =yards/sec
(64)	16% of 16 =
(65)	$11^7 \div 7$ has a remainder of
(66)	If the volume of a right circular cylinder, with radius 5 and length 10 is $\mathbf{k}\pi$, what is \mathbf{k} ?
(67)	The sum of the positive divisors of 17 is
(68)	4! =
(69)	$6\frac{3}{4} \div \frac{3}{8} = $
*(70)	$4000\pi^2 =$
(71)	$42^2 + 6^2 = $
(72)	$27\frac{3}{11}\% =$ (common fraction)
(73)	0.1333 = (common fraction)
(74)	The volume of a right circular cone with height 3 and radius 6 is $k\pi$, and $k =$
(75)	The sum of the 7 th and 6 th triangular numbers is
(76)	$20^2 \times 25 =$
(77)	If the shortest distance between the points (0, 6) and (x, 0) is 10, what is x?
(78)	4! + 12 =
(79)	$\left(9\frac{1}{2}\right)^2 - \left(5\frac{1}{2}\right)^2 = $
*(80)	11 miles =yards

The number of edges for a square pyramid is _____

(59)

2022 – 2023 University Interscholastic League Junior High Number Sense Test B – Key

- (1) 404
- (2) 119
- (3) 48
- (4) 15
- (5) $\frac{11}{16}$; .6875
- (6) 40
- (7) 11
- (8) 441
- (9) 240
- *(10) 6084 6724
- (11) 33
- (12) 1
- (13) $\frac{7}{11}$
- (14) 7221
- (15) 288
- (16) 71
- (17) 5184
- (18) 85
- (19) 2021

- *(20) 568 627
 - (21)
 - (22) 46953
 - (23) 87
 - (24) $20\frac{4}{25}$
 - $(25) \quad 6\frac{1}{2}; 6.5; \frac{13}{2}$
 - (26) 8010
 - (27) -6
 - (28) 9
 - (29)
- *(30) 7683 8491
 - (31) 10710
 - (32) 112
 - (33) $\frac{4}{5}$; .8
 - (34) 8
- (35) 480
- (36) $\frac{2}{25}$
- (37) 108.50

- (38) 48783
- (39) 27
- *(40) 30875-34125
- (41) 100110
- (42) 55
- (43) 2
- (44) 225
- (45) 32
- (46) 30
- (47) 5
- (48) 2500
- (49) -14
- *(50) 14844 16406
- (51) 126
- (52) 25
- (53) 720
- (54) 384
- (55) 11
- (56) 18
- (57) 9
- (58)

- (59)
- *(60) 13817 15271
- (61) $\frac{8}{5}$; 1.6; $1\frac{3}{5}$
- (62) $\frac{1}{2}$; .5
- (63) $\frac{1}{6}$
- (64) $2.56; 2\frac{14}{25}; \frac{64}{25}$
- (65)
- (66) 250
- (67) 18
- (68) 24
- (69) 18
- *(70) 37505 41452
 - (71) 1800
 - (72) $\frac{3}{11}$
 - (73) $\frac{2}{15}$
 - (74) 36
 - (75) 49
- (76) 10000
- (77) 8
- (78) 24
- (79) 60
- *(80) 18392 20328

Note: *(Number) x - y means an integer between x and y inclusive.

If an answer is of the type like $\frac{2}{3}$ it cannot be written as .666... or $\overline{.6}$.

University Interscholastic League 2022 – 2023 Junior High Number Sense Test C

Contestant's Number		Final		
		2^{nd}		
		1 st		
Read Directions Carefully	Do Not Unfold This Sheet	_	Score	Initials
Before Beginning Test	Until Told to Begin		Score	Illitiais

Directions: Do not turn this page until the person conducting this test gives the signal to begin. This is a ten-minute test. There are 80 problems. Solve accurately and quickly as many as you can in the order in which they appear. **ALL PROBLEMS ARE TO BE SOLVED MENTALLY**. Make no calculations with paper and pencil. Write only the answer in the space provided at the end of each problem. Problems marked with a (*) require approximate integral answers; any answer to a starred problem that is within five percent of the exact answer will be scored correct; all other problems require exact answers.

The person conducting this contest should explain these directions to the contestants.

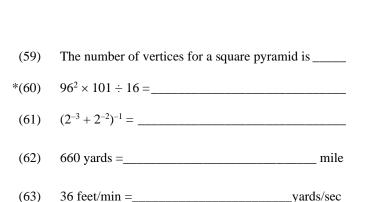
Stop – Wait for Signal!

(1)	39 + 282 =	*(20)	222.222% × 1809 =
(2)	17 × 6 =	(21)	$0.85 \times 18 - 0.35 \times 18 =$
(3)	63 – 36 =	(22)	761 × 111 =
(4)	105 ÷ 7 =	(23)	If $f(x) = 16 + 2x^2$, then $f(4) =$
(5)	$\frac{9}{16} + \frac{3}{8} =$	(24)	$8\frac{3}{4} \times 8\frac{1}{4} = \underline{\qquad} \text{(mixed number)}$
(6)	48 ÷ 0.8 =	(25)	$9\frac{7}{8} + 5\frac{3}{4} = $
(7)	28 × 0.25 =	(26)	$39^2 + 39 = $
(8)	14 ² =	(27)	The cube root of -27 is
(9)	11 × 5 × 4 =	(28)	If n is to 4 as 9 is to 12, then $n = $
*(10)	1976 + 1951 + 12 + 2023 =	(29)	If $15 + 9x$ is 24 then $x = $
(11)	32 × 1.5 =	*(30)	2023 × 5 + 2022 =
(12)	The mode of 2, 3, 5, 2, 5 and 2 is	(31)	106 × 105 =
(13)	Which is larger: $\frac{8}{11}$ or 0.73?	(32)	The sum of the two smallest prime numbers greater than 40 is
(14)	43 × 47 =	(33)	If $0.25 + 0.25 = n$, the $n^{-1} =$
(15)	28 × 12 =	(34)	47 is divisible by how many whole numbers?
(16)	130 – 41 – 29 =	(35)	One-eighth of a square mile =acres
(17)	83 ² =	(36)	6 percent = (common fraction)
(18)	10 + 13 + 16 + 19 + 22 =	(37)	The total cost of item, that costs \$1, with a sales tax
(19)	MMXXIV = (Arabic Numeral)	(31)	of $8\frac{1}{2}$ % is \$

(38)	101 × 738 =
(39)	The area of an equilateral triangle with an altitude of
	3-cm is $a\sqrt{3}$ and $a = \underline{\text{cm}^2}$
*(40)	$250\sqrt{57600} = $
(41)	72 (base 8) = (base 2)
(42)	$3^3 - 2^4 = $
(43)	The GCF of 18, 24 and 12 is
(44)	What is the area of a trapezoid with base 15, 17 and height 12?
(45)	33 (base 4) × 3 (base 4) = (base 4)
(46)	If $24 \div 3 = \mathbf{n} \div 8$, then $\mathbf{n} = \phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$
(47)	What is the length of an edge of a cube with surface area 24?
(48)	$3.5 \text{ m}^2 = \underline{\qquad} \text{cm}^2$
(49)	If $15 - 5x < 55$, then $2x > $
*(50)	32 ³ =
(51)	In the sequence: 1, 3, a , 7, 9, b , 13, $2a + b^2 = \underline{\hspace{1cm}}$
(52)	What is the 5 th term in the sequence 32, 8, 2,?
(53)	What is the sum of the interior angles for a convex polygon with 3 sides?°
(54)	What is the product of the LCM and GCD of 22 and 16?
(55)	What is the length of the side of a rectangle with perimeter 24 and width 5?
(56)	What is the radius of a circle with a circumference of 64π ?
(57)	If set $A = \{1, 2, 3,, 19\}$ and set $B = \{5, 10, 15,, 20\}$, then the number of elements in $A \cap B$ is

 $(24^2 + 5 \times 9) \div 6$ has a remainder of

(58)



12% of 20 = _____

 $10^7 \div 7$ has a remainder of _____

If the volume of a right circular cylinder, with radius

4 and length 12 is $k\pi$, what is k?

The sum of the positive divisors of 41 is _____

1! – 0! = _____

 $9\frac{3}{4} \div \frac{3}{8} =$ _____

 $3000\pi^2 =$ _____

 $28^2 + 4^2 =$

 $18\frac{2}{11}\% =$ (common fraction)

0.2666 . . . = _____ (common fraction)

The volume of a right circular cone with height 9 and radius 6 is $k\pi$, and k = _____

The sum of the 8th and 7th triangular numbers is _____

 $16^2 \times 25 =$

If the shortest distance between the points (0, 12) and $(\mathbf{x}, 0)$ is 13, what is \mathbf{x} , if $\mathbf{x} > \mathbf{0}$?

 $\frac{6!}{3!} - 100 =$ ______

 $\left(18\frac{1}{2}\right)^2 - \left(1\frac{1}{2}\right)^2 = \underline{\hspace{1cm}}$

12 miles = yards

(64)

(65)

(66)

(67)

(68)

(69)

*(70)

(71)

(72)

(73)

(74)

(75)

(76)

(77)

(78)

*(80)

2022 – 2023 University Interscholastic League Junior High Number Sense Test C – Key

- (1) 321
- (2) 102
- (3) 27
- (4) 15
- (5) $\frac{15}{16}$; .9375
- (6) 60
- (7) 7
- (8) 196
- (9) 220
- *(10) 5664 6260
- (11) 48
- (12) 2
- (13) .73
- (14) 2021
- (15) 336
- (16) 60
- (17) 6889
- (18) 80
- (19) 2024

- *(20) 3819 4220
 - (21)
 - (22) 84471
 - (23) 48
 - (24) $72\frac{3}{16}$
 - (25) $15\frac{5}{8}$; $\frac{125}{8}$; 15.625
 - (26) 1560
 - (27) -3
 - (28) 3
 - (29)
- *(30) 11531 12743
 - (31) 11130
- (32) 84
- (33) 2
- (34) 2
- (35) 80
- (36) $\frac{3}{50}$
- (37) 1.09

- (38) 74538
- (39) 3
- *(40) 57000-63000
- (41) 111010
- (42) 11
- (43)
- (44) 192
- (45) 231
- (46) 64
- (47) 2
- (48) 35000
- (49) -16
- *(50) 31130 34406
- (51) 131
- (52) $\frac{1}{8}$; .125
- (53) 180
- (54) 352
- (55) 7
- (56) 32
- (57) 3
- (58) 3

- (59) 5
- *(60) 55268 61084
- (61) $\frac{8}{3}$; $2\frac{2}{3}$
- (62) $\frac{3}{8}$; .375
- (63) $\frac{1}{5}$; .2
- (64) $2.4; 2\frac{2}{5}; \frac{12}{5}$
- (65) 3
- (66) 192
- (67) 42
- (68) 0
- (69) 26
- *(70) 28129 31089
 - (71) 800
 - (72) $\frac{2}{11}$
 - (73) $\frac{4}{15}$
 - (74) 108
 - (75) 64
 - (76) 6400
 - (77) 5
 - (78) 20
- (79) 340
- *(80) 20064 22176

Note: *(Number) x - y means an integer between x and y inclusive.

If an answer is of the type like $\frac{2}{3}$ it cannot be written as .666... or $\overline{.6}$.

Contestant Number		Contestant Name			
(to be filled in after judging) UIL A+ Ready Writing Evaluation Sheet: Elementary, Middle School, and Junior High Evaluation criteria are listed in the order of importance. Write the number that indicates the quality in each of the sub-areas and tally the points.					
(50%) /100					
INTEREST: Writing exhibits	originality of thought, ana	llytical acuteness and ov	erall coherence of expos		
	<u>POOR</u>	<u>FAIR</u>	GOOD	<u>EXCELLENT</u>	
Perceptive ideas	/7	/13	/19	/25	
Originality		/13	/19	/25	
Examples	/7	/13	/19	/25	
Title		/13	/19	/25	
(35%)/70 ORGANIZATION: Each para					
	<u>POOR</u>	<u>FAIR</u>	GOOD	<u>EXCELLENT</u>	
Student answers prompt consistently (either through supporting details, thesis, and/or plot points and character	/3		/11	/14	
development) Well-developed paragraphs, focused on an idea or ideas	/3		/11	/14	
Transition	/3	/7	/11	/14	
Support for student's	/3		/11	/14	
response to prompt Composition clarity (as a whole)	/3		/11	/14	
(15%)/30 CORRECTNESS OF STYLE that hinder clear communica		sentence structure, pun	ctuation, grammar, word	usage and spelling	
	<u>POOR</u>	<u>FAIR</u>	GOOD	EXCELLENT	
Punctuation	/1	/3	/5		
Sentence structure	/1	/3	/5		
Grammar	/1	/3	/5		
Word Usage	/1	/3	/5		
Spelling	/1	/3	/5	/6	
CONSTRUCTIVE COMMEN Please read "Instructions for the three elements in selecting the correctness of style.	e Judges" for Ready Writing	Writing before evaluating	contestants' papers. While		
AREAS NEEDING IMPROV	AREAS NEEDING IMPROVEMENT:				

Judge's signature_



INSTRUCTIONS

Choose **one** of the following topics. Write the topic you have chosen at the top of your paper. **You should also include an original, creative title for your paper.** Remember you should not use your real name or that of your school.

SEVENTH AND EIGHTH GRADES

Topic: Community Strength

Helen Keller once said, "Alone we can do so little; together we can do so much." Write about a time when your community worked together and accomplished something.

Topic: *My Values*

Personal values are characteristics that are important to you. For instance, you might value honesty or integrity (or various other values). Write an essay explaining some of your personal values and why they are important to you.



INSTRUCTIONS

Choose **one** of the following topics. Write the topic you have chosen at the top of your paper. **You should also include an original, creative title for your paper.** Remember you should not use your real name or that of your school.

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INSTRUCTIONS

Choose **one** of the following topics. Write the topic you have chosen at the top of your paper. **You should also include an original, creative title for your paper.** Remember you should not use your real name or that of your school.

SEVENTH AND EIGHTH GRADES

Topic: Painting Reality The artist Frida Kahlo once said, "I don't

paint dreams or nightmares, I paint my own reality." What do you think this quote means and how can you apply it to your

own life?

Topic: *Three Elements* Write a creative story that includes these

three elements: a telescope, footprints, and a hidden door. You may be as creative

as you would like.

CONTESTANT NUMBER:

FOR GRADER USE ONLY			
Score Test Below:			
Initials			
Initials			
Papers contending to place:			
Initials			

Sil	JìL
University Interscholastic League	rsity Interscholastic League

ce: A+ Science Contest • Answer Sheet

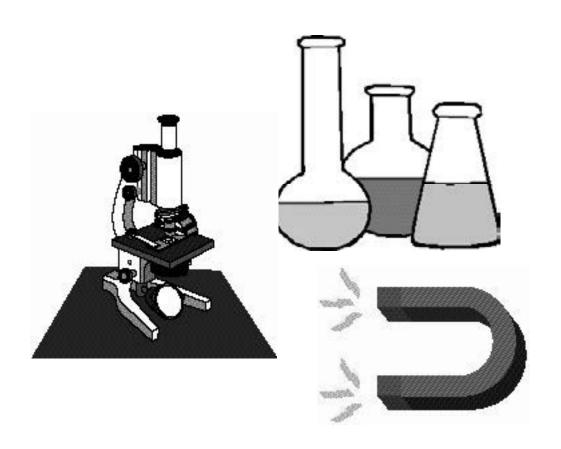
Write your contestant number in the upper right corner and circle your grade level below.

	Circle Grade Level:	6th grade	7th grade	8th grade	
1	18.			35	
2	19.			36	
3				37	
4	21.			38	
5	22.			39	
6	23.			40	
7				41	
8	25.			42	
9	26.			43	
10				44	
11				45	
12	29.			46	
13	30.			47	
14	31.			48	
15	32.			49	
16	33.			50	
17	34.				

INVITATIONAL 2022-2023

A+ ACADEMICS





Science

DO NOT OPEN TEST UNTIL TOLD TO DO SO

UNIVERSITY INTERSCHOLASTIC LEAGUE 2022-2023 SCIENCE **INVITATIONAL TEST**

1. A student heats 50 mL of water and places it in a beaker. They then place a sugar cube in the heated water and records the temperature of the water every minute for ten minutes. In this experiment, what does the temperature represent?

A. Independent variable

B Control

C. Dependent variable

D. Responsive variable

2. Based on the chemical equation, how many different elements and compounds are represented?

 $Mg + Cu(NO_3)_2 \longrightarrow Mg(NO_3)_2 + Cu$

A. Elements – 3 Compounds – 2B. Elements – 4 Compounds – 2

C. Elements – 2 Compounds – 3

D. Elements – 4 Compounds – 3

3. When a fruit is produced the energy located in the fruit is energy until it is transformed during the process of digestion.

A. Kinetic

C. Chemical potential

B. Electric

D. Mechanical

- 4. Which of the following best explains why a hot dog is able to cook over a campfire when it is place on a metal pole as shown?
 - A. Conduction
 - B. Convection
 - C. Radiation



5. In which of tectonic plate would you find Rio de Janeiro, Brazil?

A. Pacific

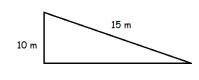
C. African

B. Nazca

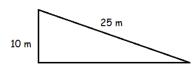
D. South American

6. Which of the following would require the least amount of force?

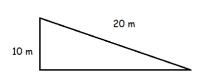
A.



C.



B.



D.

All are equivalent forces

7. The gravity on Mars is a little over one third of the gravity here on Earth. Of you could jump 3 meters on Earth, how far could you jump on Mars if you were to used the same amount of force?

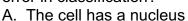
A. 1 meter

C. 9 meters

B. 3 meters

D. 12 meters

8. A student has mistakenly classified this organism as being prokaryotic. Which evidence best explains the error in classification?

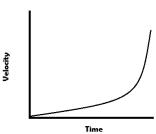


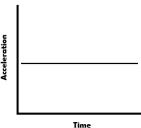
- B. The cell is from a plant
- C. The cell lacks a nucleus
- D. The cell is a bacteria



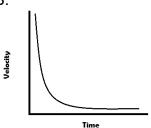
9. A train is moving at a constant velocity. Which graph best shows this? C.

A.

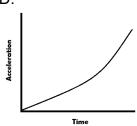




B.



D.



- 10. Melting butter demonstrates which of the following?
 - A. Physical change
 - B. Chemical change
- 11. You find a ring with a mass of 107 g laying on the sidewalk. You fill a graduated cylinder up with 10 mL of water and put the ring into the cylinder. The water rises up to the 15 mL mark. Based on the table, what type of material is the ring made from?

Density Table			
Material	Density (g/cm ³)	Material	Density (g/cm ³)
Copper	8.92	Gold	19.32
Platinum	21.4	Silver	10.49

- A. Copper C. Gold B. Silver D. Platinum
- 12. On a hot summer day, a child is selling lemonade. Which of the following items used in the lemonade would be the least dense?

A. Cup C. Citric acid

B. Sugar D. Ice

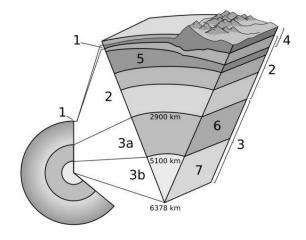
13. All of the following can be considered renewable except for –

A. Hydroelectric dam

C. Geothermal heating

B. Nuclear power plant D. Windmills

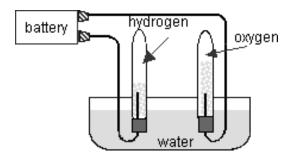
- 14. Which of the following lists has only biotic factors?
 - A. temperature, Daphnia, snail, guppy
 - B. temperature, pH, conductivity, sunlight
 - C. snail, guppy, Daphnia, algae
 - D. snail, algae, guppy, sunlight
- 15. Which of the following will have a greater impact on kinetic energy of an object?
 - A. Mass
 - B. Velocity
 - C. Gravitational force
- 16. Looking at the model of the Earth, which structure is indicated at Position 4?
- A. Inner Core
- B. Outer Core
- C. Asthenosphere
- D. Lithosphere



- 17. Simple machines are useful when moving heavy objects because they-
 - A. require less work
 - B. require less input force

- C. do work for us
- D. move things over shorter distances
- 18. Photosynthesis requires two raw materials. They are
 - A. Chlorophyll and O₂
 - B. H₂O and sugar

- C. H₂O and CO₂
- D. O₂ and CO₂
- 19. Based on the image, this best shows a -
 - A. Chemical change
 - B. Physical change
 - C. Unbalanced reaction
 - D. Photosynthetic reaction



- 20. Mechanical or physical weathering is the process by which rock is broken down into smaller pieces by physical changes. Some ways that rock can be broken down physically include all of the following except:
 - A. Temperature fluctuation

C. Oxidation

B. Abrasion

- D. Plant growth
- 21. How can large volcanic eruptions and meteorite collisions have similar effects on Earth's climate?
 - A. Both can cause the greenhouse effect to increase global warming
 - B. Both give off large forces that change the tilt of Earth's axis
 - Both cause acidic rain from the gases and particles they give off into Earth's troposphere
 - D. Both put huge volumes of dust and ash into the atmosphere, blocking the sun's energy
- 22. Earth supports life while the nearby Moon does not. All of the following are reasons why the Moon cannot support life compared to the Earth except:
 - A. Abundance of water

C. Atmosphere

B. Distance from Sun

- D. Lack of natural resources
- 23. An oak forest is an example of a climax community because of which of the following:
 - A. The mature oak trees block sunlight below them, not allowing smaller trees and grasses to grow
 - B. The oak trees will grow and reproduce until they are disturbed or killed by man or nature
 - C. Oak trees are the largest vegetation that grows in the area
 - D. All of the above are true

- 24. Secondary succession will take place in each of these ecosystems except
 - A. An abandoned field
 - B. A shallow pool of water
 - C. A volcanic lava flow that forms a new island
 - D. A forest which has been clear-cut
- 25. Use the image and the Dichotomous key to correctly identify the whale shown.



1a. Mouth with baleen (no teeth)	
1b. Mouth with teeth (no baleen)	2
2a. Large melon (head)	Sperm Whale
2b. Small rounded head	3
3a. Distinct black and white markings on body	Orca
3b. Body mostly gray	
4a. Has defined beak or "snout"	Bottlenose Dolphin
4b. No beak, rounded "snout"	6
5a. Specked markings on sides	Harbor Porpoise
5b. Body all gray, usually cover with scratches	Risso's Dolphin
6a. Long pectoral fin/flippers with knobs on fins & head	
6b. Shorter pectoral fin/flippers, smooth fins and head	7
7a. White band on pectoral fin/flipper	Minke Whale
7b. No white band on pectoral fin/flipper	8
8a. Body covered in barnacles, no dorsal fin, has dorsal knuck	lesGray Whale
8b. No barnacle growth on body, dorsal fin present	9
9a. Body solid blue color	
9b. Body with gray and white patterns	Fin Whale

A. Orca

C. Fin Whale

B. Gray Whale

D. Minke Whale

- 26. Which of these is a reaction to an internal stimulus?
 - A. A runny nose when breathing dusty air
 - B. Itchy red skin when exposed to poison ivy
 - C. Your eyes become red and itchy when you are exhausted
 - D. Blisters on skin when sunburned

27. A designer who is building a new nose cone for rockets would choose materials with all these properties except

A. Low density

C. Malleability

B. High heat conductivity

- D. High melting point
- 28. Which of the following illustrates the hierarchy of cellular organization?
 - A. cell, population, organ system, cell, community
 - B. molecule, cell, organ, organ system, organism
 - C. organism, organ system, population, organ, community
 - D. molecule, organ, organ system, organism, population



- 29. The structure seen is responsible for which of the following functions in a cell?
 - A. Captures sunlight used in photosynthesis
 - B. Powerhouse of the cell
 - C. Directs cellular activities
 - D. Synthesizes and stores materials
- 30. An individual left a plant outside for several days without tending to it in the summer. The person noticed that the plant was beginning to wilt. Wilting in plants is a result of which of the following?

A. Decrease in H₂O

C. Increase in radiant energy

B. Lack of CO₂

D. Decrease in O₂

31. If a diploid cell of an organism contains 90 chromosomes. What would an egg or a sperm cell of this organism would be expected to have this number of chromosomes?

A. 90

B. 180

C. 45

D. 23

32. A neutral atom contains 20 neutrons, 18 electrons as well as protons. What would be the atomic number of this particular atom?

A. 18

B. 20

C. 28

D. 40

33. Which best describes the following scenario:		
A drone taking off and heading south at 25 kilometers per hour A. An example of speed B. An example of acceleration C. An example of speed and acceleration D. An example of velocity and acceleration		
	3	6,94* L
34. What do the elements shown to the right have in common? A. They are noble gases	19	la 39,10
B. They do not form compounds with any other elementsC. They react with water to form saltsD. They are silvery solids that react with non-metals		K
	37 F	85,47 Rb
		132,9 C S
35. Scientists can tell that the sun rotates on its axis by observing	wh	ich

- 35. Scientists can tell that the sun rotates on its axis by observing which of the following:
 - A. How the sunspots moving across the sun's surface from East to West
 - B. Changing magnetic forces coming from the sun
 - C. Fluctuating amounts of solar winds due to solar flares
 - D. Time that the sun rises and sets on Earth
- 36. Spring Tide occurs when
 - A. There is a full moon
 - B. The Sun, Moon, and Earth are all aligned
 - C. At the first guarter and third guarter moons
 - D. When the Sun and Earth are the at their perihelion
- 37. Oxygen has an atomic number of 16. How many more electrons will it take to fill the valence shell and make it stable?A. 1B. 2C. 3D. 8
- 38. The Virgo Cluster, unlike most other galaxies in the universe, has been observed with a blue shift. What does this mean?
 - A. Movement of the source toward the observer
 - B. Movement of the source away from the observer
 - C. The source is not moving

- 39. Which of the following starts would have the lowest surface temperature?
 - A. A Red dwarf

C. A Red Giant

B. A White star

D. A Yellow Star

40. Redshift and blueshift are used by astronomers to work out how far an object is from Earth. The concept of redshift and blueshift is closely related to which of the following

A. Big Bang Theory

C. Doppler Effect

B. Theory of Relativity

- D. Coulomb's Law
- 41. Which of the following would most likely result from a collision between a continental lithospheric plate and an oceanic lithospheric plate?
 - A. Volcanic island arc
 - B. Chain of coastal volcanic mountains
 - C. Mid-oceanic ridge
- 42. If an active cold front overtakes a warm front which of the following occurs:
 - A. An occluded front forms
 - B. The fronts cancel each other out due to interference
 - C. Cloud formation increases
 - D. A stationary front forms
- 43. Another form of interdependence between organisms is called symbiosis. There are several types of symbiosis. The difference between each type is determined by how beneficial or harmful the relationship is to the organisms. When one organism benefits and the other one remains constant or neutral, this is called...
 - A. Mutualism
 - B. Commensalism
 - C. Colonialism
 - D. Parasitism
- 44. Only ten percent of energy stored in an organism is passed on to the next higher trophic level. Of the remaining energy, some is used for life processes, and the rest is
 - A. Used in reproduction
 - B. Stored in lipids
 - C. Stored in muscles
 - D. Eliminated as thermal energy
- 45. During the drought in Texas, numerous deer temporarily left their usual territory to drink from water troughs that were being filled by farmers and ranchers. This behavior was probably due to:
 - A. The need to find different food sources
 - B. The change in an abiotic factor in its natural environment
 - C. The need to find a new habitat
 - D. The change in a biotic factor in its natural environment

- 46. An excess of hot water is released into a reservoir, which of the following is most likely to immediately occur?
 - A. An increase in pollution in the bay
 - B. A decrease of pollution in the bay
 - C. A decrease in the dissolved oxygen level
 - D. An increase in carbon-based compounds
- 47. Suppose you were making a circle graph of the following information about a laboratory budget. They said that 5% of their budget goes to consumables, 10% goes into equipment, 80% of the monthly income goes to paying all debts, and the remaining 5% is used for miscellaneous expenses that arise. How large of a section, in degrees, would the debts take up?

A. 360°

B. 288°

C. 36 °

D. 18°

48. A spilled liquid base can be best neutralized with:

A. Sodium bicarbonate

C. Hydrochloric acid

B. Water

- D. Sodium hydroxide
- 49. When a scientist compares two objects or events, what is he or she most likely looking for?
 - A. How the data was collected
 - B. Causes and effects for the data
 - C. Similarities in the data
 - D. Errors in the data collection
- 50. Which of the following is most likely correct?
 - A. You can accept or reject a hypothesis, but never prove it to be true
 - B. You can always prove a hypothesis to be true
 - C. You can always prove a hypothesis to be false
 - D. Accepting or rejecting a hypothesis is the same as proving whether or not the hypothesis is true

UNIVERSITY INTERSCHOLASTIC LEAGUE 2022-2023 SCIENCE INVITATIONAL TEST

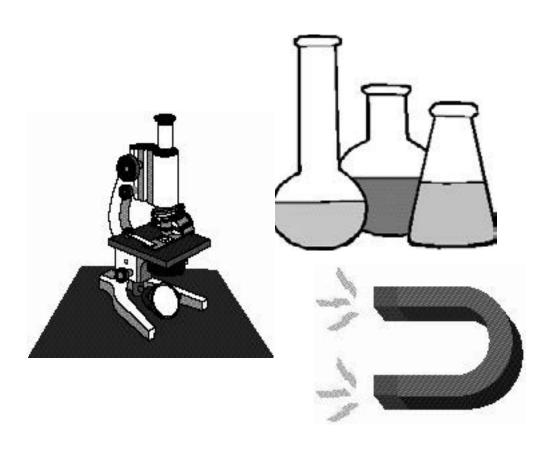
Answer Key

1. A	18. C	35. A
2. B	19. A	36.B
3. C	20. C	37.B
4. A	21. D	38. A
5. D	22.B	39. A
6. C	23. D	40. C
7. C	24. C	41.B
8. A	25. D	42. A
9. C	26. C	43.B
10.A	27.B	44. D
11.D	28.B	45.B
12.D	29. A	46. C
13.B	30. A	47.B
14. C	31.C	48. A
15.B	32. A	49. C
16.D	33. D	50. D
17.B	34. D	

FALL/WINTER DISTRICT 2022-2023

A+ ACADEMICS



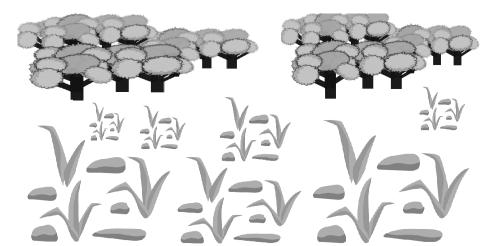


Science

DO NOT OPEN TEST UNTIL TOLD TO DO SO

UNIVERSITY INTERSCHOLASTIC LEAGUE 2022-2023 SCIENCE FALL/WINTER DISTRICT TEST

1.



Students are labeling the illustration with the most abundant elements. Which list of elements best labels the living matter represented in the illustration?

A. O, S, H

C. C, H, O

B. Na, H, O

D. Na, S, He

2. Which of the following is not a good characteristic to use to determine the type of mineral?

A. Shape

C. Hardness

B. Color

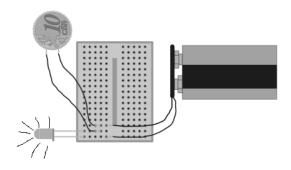
- D. Luster
- 3. What happens to the motion of gas molecules as the air temperature drops below zero degrees Celsius?
 - A. Molecules move more randomly
 - B. Molecular speed decreases
 - C. Molecular speed increases
 - D. Molecule remain constant
- 4. Due to increased temperature and pressure sedimentary rocks can transform into metamorphic rocks. What other type of rock transformation can have increased temperature and pressure also form?

A. Igneous to metamorphic

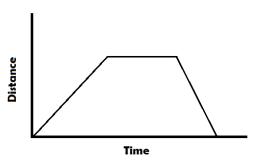
C. Metamorphic to sediment

B. Sediment to sedimentary

D. Igneous to sediment



- 5. The light turned on when the item was placed in the circuit as shown. The item could not be classified as a
 - A. Metal
 - B. Metalloid
 - C. Non metal
 - D. Semiconductor
- 6. An individual changes the color of the bottom of a swimming pool from beige to black because they heard it would increase the temperature of the water in the pool. The new color will help warm the pool water by transforming
 - A. Nuclear energy from the sun
 - B. Chemical energy in the paint
 - C. Thermal energy from the paint
 - D. Radiant energy from the sun
- 7. A plant grown on Earth and on the ISS would most likely differ in which way?
 - A. Pigments of leaves
 - B. Shape of roots
 - C. Phototropism
 - D. Minerals needed
- 8. What type of motion would best describe the motion of the graph shown?
 - A. Launch of a rocket
 - B. Driving to school and back
 - C. Flight to Canada
 - D. Motion of clock hands



- 9. There are four ramps all at an incline of 25 degrees, the only different is the distance at which it takes to push the box up the ramp. Which of the following would require the least amount of force to lift a box?
 - A. Ramp of 10 meters

C. Ramp of 25 meters

B. Ramp of 20 meters

D. All the same

10. The following tables shows the development of space exploration in stages. Which item correctly completes the missing area?

First satellite launched into orbit

Animals sent into space

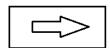
Humans walk on the moon
?

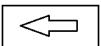
- A. Humans to outer space
- B. Explorer I launches
- C. ISS sent into orbit
- D. Pioneer I launched
- 11. Which shows the correct movement of the tectonic plates where the location of the Andes mountains formed?

A.

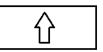


D.

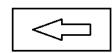


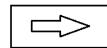


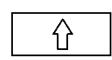




B.

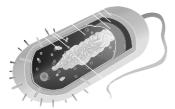






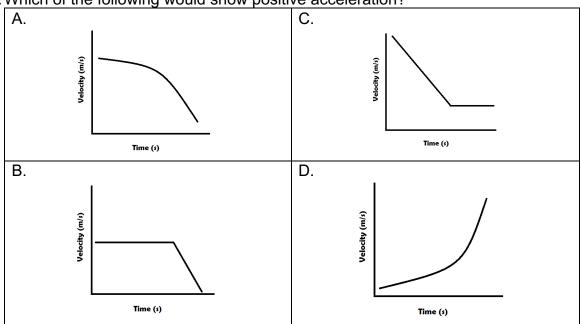


- 12. Some plants use brightly colored flowers to attract pollinators. Which is the most likely conclusions about a plant that has small flowers that are hard to see?
 - A. Doesn't produce a seed
 - B. Wind pollination plant
 - C. Ornamental plant
 - D. Reproduce binary fission
- 13. A student has classified this cell as being prokaryotic. What evidence is there to support this claim?
 - A. Cell has a nucleus
 - B. Cell is from an animal
 - C. Cell lacks a nucleus
 - D. Cell is from a plant



- 14. Which Texas region would most be affected by wind erosion?
 - A. Panhandle
 - B. Pineywoods
 - C. Hill Country
 - D. All areas are the same
- 15. The instructions for a lab warned to avoid putting K in the liquid used in the lab. What element should not be placed in the liquid?
 - A. Nitrogen
 - B. Carbon
 - C. Potassium
 - D. Krypton

16. Which of the following would show positive acceleration?



- 17. What do the three organisms have in common?
 - A. All autotrophic
 - B. Composed of cells
 - C. All are omnivores
 - D. Are mammals



18. According to the US EPA, too much ground water discharge to streams can lead to erosion and alter the balance of aquatic plants and animals. Which human activity does this likely refer to?

C.

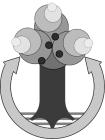
D.

- A. Hurricane
- B. Pumping water into the ground for gas extraction
- C. Overfishing
- D. Deforestation
- 19. Which image best shows an ecosystem?





B.





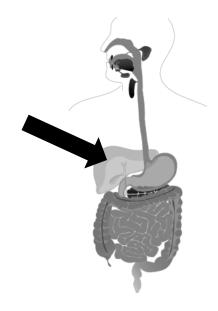
- 20. As the sun begins to die, in roughly 5 billion years, it will expand. Why will the Earth no longer be in the habitable zone?
 - A. Gravity will increase
 - B. Tides will increase
 - C. Earth will become too hot
 - D. Gravity will cause the asteroid belt to move into a closer orbit
- 21. Which environment would experience the greatest change in total number and type of species over time?
 - A. Pioneer species

C. Secondary succession

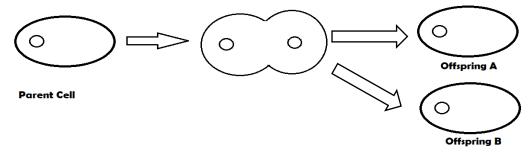
B. Intermediate species

- D. Climax community
- 22. A swim bladder is an internal gas filled organ that contributes to the ability of many bony fish to do which of the following?
 - A. Allows the fish to see deeper in the water
 - B. Allows the fish to scare off predators by increasing in size
 - C. Allows for extra storage of food
 - D. Allow the fish to vary buoyancy in water

- 23. What is represented by the arrow in the diagram?
 - A. Tissue
 - B. Organ system
 - C. Organ
 - D. Cell



- 24. If a human notices a decrease in the production of urine, this could mean that the body could be having which of the following?
 - A. Fever
 - B. Dehydration
 - C. Asthma
 - D. Broken bone
- 25. A student is looking at a family photo album. The student notices that they look very similar to their great grandparents. What allows them to look similar to their relatives?
 - A. Similar chromosomes
 - B. Similar proteins
 - C. Similar thylakoids
 - D. Similar cell walls
- 26. Based on the illustration. Which statement about the cells is correct?



- A. Bile destroys the genetic info in the parent cell which left the offspring viable
- B. Cells reproduce slowly due to acids within the organisms
- C. Cell A has different genetic information compared to Cell B
- D. Cell A has identical genetic information compared to Cell B

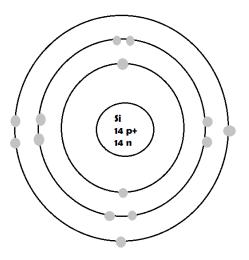
27. Which animal cell organelle is capable of reproducing independently within the cell?

A. Cell wall

C. Chloroplast

B. Mitochondria

- D. Vacuole
- 28. A volleyball player notices that the harder the ball is hit, the more their hand hurts afterwards. Which law best explains this?
 - A. Newton's 1st Law of motion
 - B. Newton's 2nd Law of motion
 - C. Newton's 3rd Law of motion
 - D. Newton's 0th Law of motion
- 29. Students place a plant in a dark, windowless closet for two days. Which of these will help the plant maintain homeostasis?
 - A. Growth of deeper roots
 - B. Using stored sugars
 - C. Decreasing diameter of the stem
 - D. Going dormant
- 30. In the Bohr model of the atom shown, how many more electrons would it take to fill the valence shell and be stable
 - A. 2
 - B. 4
 - C. 8
 - D. 0



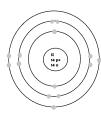
- 31. Students are given an activity which they are asked to classify the types of energy present in various physical situations found around their school. Which of the following best represents a conclusion that the students might write about in a lab report over the activity?
 - A. All objects with kinetic energy can be found over 3 meters high.
 - B. All objects with kinetic energy are cold.
 - C. All objects with kinetic energy are macroscopic.
 - D. All objects with kinetic energy must be in motion.

32. Which best illustrates a compound?

Α.



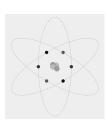
C.



В.

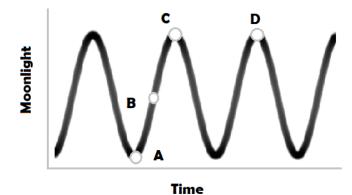


D.



- 33. In an energy pyramid, at what level is the most usable energy available?
 - A. Primary consumer
 - B. Producer
 - C. Secondary consumer
 - D. Decomposer

34. Based on the graph, what moon phase matches point B?



A.



C.



В.



D.



3 0.	A. Our moon B. White dwarf	C. Blue white super giant D. Red giant
36.	The very large array is a compilation of twenty-capture radio waves. The entire array is arrangmiles. Why are radio telescopes so large? A. Radio waves are very difficult to detect B. Only certain stellar objects emit radio waves C. So the radio waves can be controlled remot D. The wavelength of waves can be as long as	ged with diameters of around 22 s tely
37.	This individual helped strengthen the theory of person explanations, most scientists believed to there were no good explanations. This person and could push landmasses. The individual prespreading to explain how continents move? A. Hess B. Wegner C. Hutton D. Einstein	hat the continents did move but suggested the ocean floor moved
38.	Ocean currents move warm and cold water throweather and climate worldwide. Where do cold A. Near the equator B. Near the continents	•
39.	A student is working with several chemicals in a happen if they mixed the chemicals together. In not do? A. Wait for the teacher's instructions B. Taste the chemicals before mixing them C. Mix chemicals without instructions D. Read the entire procedures for the lab before	Which of the following should they
40.	A study of plant roots over time in an area show root systems that stayed near the surface. Mos area showed root systems that extend deep int information, plant species in this area lived chat. Mountain region to hills B. Forest to tundra	st recent plant life in the same to the ground. Based on this

- 41. When commercial airplanes have to land or take off on short runways, it can be a rough flight. Why might passengers consider it unpleasant?
 - A. The shorter the runways, the acceleration for takeoff or landing has to be greater.
 - B. The sight of a short runway can make people nervous.
 - C. The sight of the short runway can distract the pilots.
 - D. The runways are shorter, the velocity for takeoff or landing has to be lower.
- 42. This lab equipment is used to hold and heat small amounts of a liquid but doesn't have marked measurements. Which piece of equipment best identifies it?
 - A. Graduated cylinder

C. Pipette

B. Beaker

D. Test tube

43. When someone talks about "how fast", what are they actually referring to?

A. Time

C. Speed

B. Velocity

- D. Acceleration
- 44. The heights of twins are measured yearly. What type of graph would be used to represent this?

A. Line graph

C. Bar graph

B. Scatter plot

D. Circle graph

- 45. Which group readily donates electrons?
 - A. Noble gases
 - B. Metals
 - C. Non-metals
 - D. Halogens
- 46. This is a comprehensive explanation of some aspect of nature that is supported by a vast body of evidence. Which of the following would not be an example of the previous description?
 - A. The Big Bang
 - B. Plate Tectonics
 - C. Evolution by natural selection
 - D. Universal Gravitation
- 47. Elements in Group 18 are referred to as the noble gasses. What makes these elements unlikely to react?
 - A. Number and placement of the electrons
 - B. Number of ions present
 - C. Number and placement of the neutrons
 - D. Number of protons

- 48. This individual developed a mathematical model for the structure of the nuclear shells of atoms. The theory of the structure of nuclear shells illustrated that protons and neutrons pair up with in the nucleus of the atom. What scientists does this most likely refer to?
 - A. Yalow
 - B. Rutherford
 - C. Goeppert Mayer
 - D. Thomson
- 49. Two theories for the origins of the universe were discussed in class. The Big Bang Theory as well as the Big Crunch Theory. One main difference between the two is that
 - A. The date on which the universe started
 - B. How the universe began
 - C. The purpose of the universe
 - D. How the universe changes
- 50. How are humans classified within a food web?
 - A. Autotrophic
 - B. Consumers
 - C. Decomposers
 - D. Producers

UNIVERSITY INTERSCHOLASTIC LEAGUE 2022-2023 SCIENCE FALL/WINTER TEST

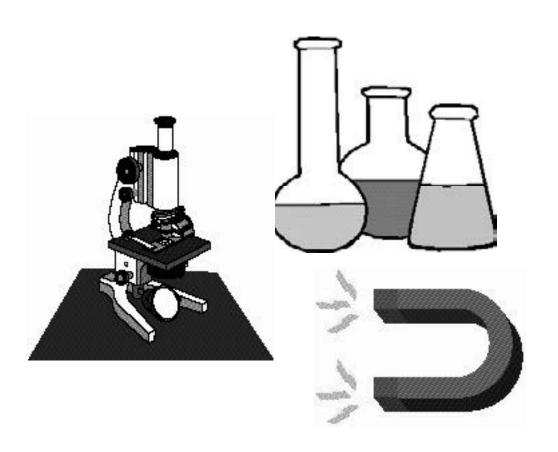
Answer Key

1. C	18.B	35. C
2. A	19. C	36. D
3. B	20. C	37. A
4. A	21.B	38. C
5. C	22. D	39.B
6. D	23. C	40. C
7. C	24.B	41.A
8. B	25. A	42. D
9. C	26. D	43. C
10.C	27.B	44. A
11.A	28. C	45.B
12.B	29.B	46. D
13. C	30.B	47. A
14. A	31.D	48. C
15.C	32. A	49. D
16.D	33.B	50.B
17.B	34. D	

SPRING DISTRICT 2022-2023

A+ ACADEMICS





Science

DO NOT OPEN TEST UNTIL TOLD TO DO SO

UNIVERSITY INTERSCHOLASTIC LEAGUE 2022-2023 A+ SCIENCE SPRING TEST

- 1. Which of the following does not represent the meaning of an element?
 - A. A stone made entirely of granite
 - B. A gum ball machine with different sized and colored gum balls
 - C. A package of shredded iceberg lettuce
 - D. A wall made of identical cinder blocks
- 2. Based on the chemical equation, how many different elements and compounds are represented?

$$CH_4 + 2O_2$$
 $CO_2 + 2H_2O$

- A. Elements 2; Compounds 4
- B. Elements 4; Compounds 3
- C. Elements 3; Compounds 3
- D. Elements 2; Compounds 2
- 3. What is an ecological model of the relationships that form a network of complex interactions among organisms in a community from producers to decomposers?
 - A. Food web

C. Ecosystem

B. Food chain

D. Population

4. A neutral atom contains the following particles. What is its mass number?

Neutron	17
Electron	11
Proton	?

A. 11

B. 17

28

D. 45

- 5. Most scientists believe that atomic interactions depend primarily on the arrangement of valence electrons. This is most supported by observations of similar reactions of elements located
 - A. With similar number of protons
 - B. With similar mass numbers
 - C. In a period on the periodic table of elements
 - D. In a group on the periodic table of elements

- 6. A teacher puts two tables into a liquid in a cup. The teacher stirs the liquid with the tablet submerged using a stirring rod and it begins to bubble. Which is less dense than the liquid in the cup?
 - A. Tablet

C. Spoon

B. Glass

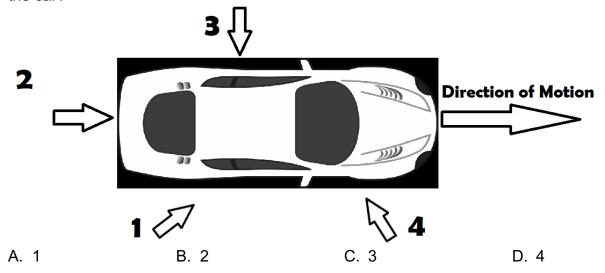
D. Bubbles

- 7. What property stays the same during both a physical and a chemical change?
 - A. Density

C. Mass

B. Color

- D. Particle arrangement
- 8. A car is moving down the street as shown. Which force will only affect the speed of the car?



9. Which best describes the scenario below:

An airplane taking off traveling at 275 km/hr

- A. Example of speed
- B. Example of velocity
- C. Example of speed and acceleration
- D. Example of velocity and acceleration
- 10. Which of the following describes a human activity that uses up non-renewable resources?
 - A. Plowing topsoil and causing erosion
 - B. Cooking on a gas grill

- C. Gathering fire wood for a camp fire
- D. Electricity from a hydroelectric dam
- 11. This is the process of transforming chemical energy into forms of usable energy by the organisms?
 - A. Photosynthesis

C. Cellular respiration

B. Homeostasis

D. Excretion

12. Using the diagram, what time would there be a high tide? A. 3 PM B. 6 PM C. 9 PM D. 12 PM 13. A marble, golf ball, and tennis ball all fall off a table towards the ground at the same time. The objects all hit the ground at the same time because each has the same -A. Acceleration B. Inertia C. Weight D. Size 14. When the springs are compressed on the trampoline an increase of will occur. minimum minimu A. Chemical energy B. Kinetic energy C. Electrical energy D. Potential energy 15. Which event would most likely have the effect of impacting the world's climate by lowering the temperatures as well as plant growth rate slows down? A. Hurricane C. Tornado B. Large volcanic activity D. Large landslides 16. Main sequence stars like our sun tend to appear in the yellow range of visible light. Older stars generally tend to appear red. Blue stars are considered young stars and tend to burn -A. Very hot C. Similar temperature to our sun B. Extremely cool D. Forever 17. Who proposed the closed universe theory? A. Einstein C. Copernicus B. Friedman D. Ptolemy 18. Which of the following best explains why cold air displaces warm air? A. Convection

B. ConductionC. Radiation

19. Students make a list of materials that are needed for humans to survive in space. Which item listed would account for the fact that space is a vacuum and can cause extreme temperatures?

A. Solar panels

C. Rocket engines

B. Electric heater

D. Water

20. Some mountain ranges, such as the Alps, increase in elevation because of -

A. Seafloor spreading

C. Motion of the tectonic plates

B. Earthquakes

D. Tsunamis

21. Oceanic and continental are two types of Earth's -

A. Core

C. Atmosphere

B. Elements

D. Crust

22. In which major tectonic plate would you find Paris, France?

A. Pacific

C. Eurasian

B. Nazca

D. African

- 23. Students observe many different organisms living in a grassy field but they do not see any frogs. Which changes would most likely allow for frogs to live in this field?
 - A. Landslide
 - B. Diversion of a stream to flow through the field
 - C. Grassfire
 - D. Increase in predators
- 24. On a hot summer day, a person steps onto asphalt from the grass while barefooted. Why does the asphalt seem so much warmer?
 - A. Asphalt has a lower specific heat
 - B. Grass has a lower specific heat
 - C. Asphalt has a higher specific heat
 - D. Grass and asphalt have the same specific heat
- 25. A student made the following chart.

Group 1	Group 2
Mars	Neptune
Venus	Uranus
Mercury	Jupiter

How did the student most likely use to separate the sets of planets?

- A. With and without satellites
- B. With and without water
- C. With and without atmospheres
- D. Gas and terrestrial planets



26. The moon has about 1/6 the amount of gravitational force as Earth. If you can jump four meters on Earth, about how many meters can you jump on the moon using the same force?

A. .24 m

C. 24 m

B. 2 m

D. 12 m

27. Using the following information identify the insect.



1. Does the insect have wings? Remember most adult insects have 2 pairs of wings, but they're not always visible.	a. Yes	go to step 2
	b. No	Order Hemiptera
2. Does the insect have parallel wings?	a. Yes	go to step 3
	b. No	go to step 4
3. Does the insect have a parallel line down the back that divides the wings?	a. Yes	Order Coleoptera
	b. No	Order Orthoptera
4. Does the insect have 4 total wings?	a. Yes	go to step 5
	b. No	Order Diptera
5. Does the insect have long antennae?	a. Yes	go to step 6
	b. No	Order Odonata
6. Does the insect have a small body with large fan –shaped wings?	a. Yes	Order Lepidoptera
	b. No	Order Hymenoptera

A. Order Hemiptera

B. Order Hymenoptera

C. Order Lepidoptera

D. Order Orthoptera

28. Which relationship is most like a tick and dog?

A. Ceratocystis fagacearum & oak trees

B. Hummingbird & flowers

C. Fish & bear

D. Goby fish & shrimp

	Domains bacteria and eukarya are distinguished. A. All bacteria are singled celled and all eukar B. Bacteria get nutrients from absorption and ed. C. Only bacteria can grow and reproduce D. Only eukarya have genetic material	ya are multicellular
	Which pair best matches the pair of phrases be children on a playground	park complex
	A. Population – ecosystemB. Abiotic – biotic	C. Hypothesis – conclusionD. Igneous – sedimentary
;	A class was studying human body systems. Sosecretes hormones and regulates bodily procesystem.	
	A. Circulatory B. Endocrine	C. Digestive D. Excretory
	Which of these can be found in a plant cell but A. Chromosome B. Mitochondria	not in an animal cell? C. Ribosomes D. Thylakoid
	Two materials are mixed together in a plastic bedioxide. Which is the best evidence showing a produce carbon dioxide? A. A color change B. A precipitate is formed C. Expansion of the sealed bag D. An endothermic reaction occurred	
34.	A ball is tossed as shown.	
	What force(s) cause this path? A. Inertia B. Adhesion and cohesion C. Forward speed and gravity D. Spring forces	
	Which of the following domains lack a nucleus A. Eukarya B. Bacteria	but has a cell wall? C. Archaea D. Bacteria and Archaea
	In a plant, this describes growth in response to A. Hydrotropism B. Thigmotropism C. Phototropism D. Heliotropism	contact with another solid object.

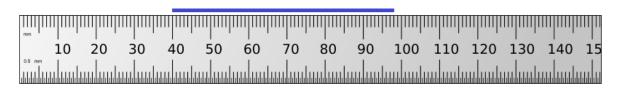
37.	Which of the following is not a result of heredity A. A person only wearing designer clothes B. A child that has blue eyes like his father C. A child that has cystic fibrosis just like a gra D. Triplets that all have red hair like their moth	ındp	parent
38.	Which system of the human body has a similar A. Circulatory B. Skeletal	C.	nction to that of some cilia? Muscular Endocrine
39.	Using selective breeding, a new type of grain vareas where the summer growing season is short these farmers that will be planting this new A. Extra-large seed size B. Fast growing rate	ort. gra C.	Which trait would be most useful
40.	Which of the following is not considered a major A. Reducing consumption B. Saves energy C. Keeps materials out of landfills	or b	enefit of recycling?
41.	Which would result in the most diverse offspring A. A Self-pollinating flower B. Butterflies pollinating from one flower to and C. Planting cuttings from an African violet D. Paramecia reproducing asexually	_	er
42.	 Which is not a reason why biodiversity is important. A. Biodiversity loss decreases the water quality B. Species act as natural pest control 	C.	t? Too many species in an ecosystem Promotes healthier maintained ecosystems
43.	When it is summer in the Northern hemisphere experiencing? A. Winter B. Spring	C.	e Southern hemisphere would be Summer Fall
44.	How many peaks are illustrated on this map?		
	A. 1 B. 2 C. 3 D. 4		

- 45. Changes in the thickness of polar ice caps likely indicate changes in -
 - A. Decreased solar flares
 - B. Earth's climate
 - C. Biodiversity of the artic
 - D. Increased fault activity
- 46. After a flood, scientists studying aquatic plants showed a decline in the rate of photosynthesis. Increases in the sediment lowers the amount of light in the water. Why would a decline in this rate lead to a decrease in the aquatic plant population?
 - A. There is less water for absorption
 - B. There is less soil for nutrients
 - C. There is less radiant energy provided by the sun
 - D. There is less energy for reproduction
- 47. Which of the following is only part of a comparative investigation?
 - A. Observations

C. Variables

B. Procedures

- D. Data, graphs, and analysis
- 48. What is the length of the line above the ruler?



- A. 98 cm
- B. 5.8 cm
- C. 9.8 cm
- D. 58 cm
- 49. Which of the following is not a scientific model?
 - A. A computer program that shows the formation of mountain ranges
 - B. A computer program used to predict the weather
 - C. A dinosaur skeleton in a museum
 - D. A data table used to show information from a lab
- 50. This individual is credited with creating the Harvard Classification Scheme to classify stars based on their temperatures. This individual also catalogued 230,000 stars and discovered three hundred of these stars.
 - A. Russell
 - B. Cannon
 - C. Hertzsprung
 - D. Galileo



UIL A+ SCIENCE CONTEST SPRING TEST 2022-2023 ANSWER KEY

1. B	18.A	35. D
2. C	19.B	36.B
3. A	20.C	37. A
4. C	21.D	38. C
5. D	22.C	39.B
6. D	23.B	40. A
7. C	24.A	41.B
8. B	25. D	42.C
9. A	26. C	43. A
10.B	27.C	44. D
11.C	28.A	45.B
12.D	29.B	46. D
13.A	30.A	47. C
14.D	31.B	48.B
15.B	32. D	49. D
16.A	33. C	50.B
17.B	34. C	

CONTESTANT NUMBER:

FOR GRADER USE ONLY

Score Test Below:

Initials____

Initials____

Papers contending to place:

Initials



University Interscholastic League A+ Social Studies Contest • Answer Sheet

Write your contestant number in the upper right corner, and circle your grade below.

Circle Grade Level: 5 6 7 8

			Circl	e Grade Level:	5	6	7	8		
1.	A	В	C	D	21.	A	В	C	D	
2.	A	В	C	D	22.	A	В	C	D	
3.	A	В	C	D	23.	A	В	C	D	
4.	A	В	C	D	24.	A	В	C	D	
5.	A	В	C	D	25.	A	В	C	D	
6.	A	В	C	D	26.	A	В	C	D	
7.	A	В	C	D	27.	A	В	C	D	
8.	A	В	C	D	28.	A	В	C	D	
9.	A	В	C	D	29.	A	В	C	D	
10.	A	В	C	D	30.	A	В	C	D	
11.	A	В	C	D	31.	A	В	C	D	
12.	A	В	C	D	32.	A	В	C	D	
13.	A	В	C	D	33.	A	В	C	D	
14.	A	В	C	D	34.	A	В	C	D	
15.	A	В	C	D	35.	A	В	C	D	
16.	A	В	C	D	36.	A	В	C	D	
17.	A	В	C	D	37.	A	В	C	D	
18.	A	В	C	D	38.	A	В	C	D	
19.	A	В	C	D	39.	A	В	C	D	
20.	A	В	C	D	40.	A	В	C	D	

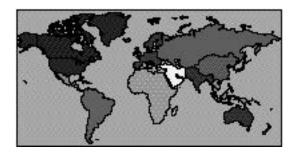
INVITATIONAL 2022-2023

A+ ACADEMICS









Social Studies

grades 7 & 8

DO NOT OPEN TEST UNTIL TOLD TO DO SO

UNIVERSITY INTERSCHOLASTIC LEAGUE 2022-23 A+ SOCIAL STUDIES INVITATIONAL – GRADES 7-8



- 1. Where was Mier y Teran when he wrote a letter to the President of Mexico about the conditions in Texas?
 - a. Galveston

c. San Antonio

b. Nacogdoches

- d. San Felipe de Austin
- 2. What impact did the Law of April 6, 1830 have on Texas?
 - a. Strengthened relations with Mexico
 - b. Encouraged diplomatic relations with Great Britain
 - c. Led to stronger religious rules
 - d. Angered Texans because they feared it would hurt their economy
- 3. Why was Stephen F. Austin arrested in January of 1834?
 - a. He organized a military force to oppose Mexico
 - b. He expressed displeasure at not being invited to dine with the King of Spain
 - c. He wrote a letter telling Texas leaders to organize a state government before they received permission
 - d. He struck a Mexican official



- 4. Where was this flag attached to a cannon that was demanded by Mexican forces?
 - a. Gonzales

c. Brownsville

b. Victoria

d. San Antonio

5.	a. b. c.	Thy did James Bowie decide to defend Crops were flourishing and would pro Not enough time to retreat to Nacogo Decided the Alamo and its artillery w Wanted to look for wealth that was ru	ovid doc ere	le enough food for all its inhabitants hes too important to destroy
6.		ho, according to legend, took a swo	rd	and drew a line on the ground at the
		Henry Karnes William B. Travis		Almaron Dickinson Francis Johnson
7.	a.	ow long did the Battle of San Jacinto I 18 minutes One hour	C.	? 30 minutes One day
8.	W	ho was this early Texas political leade	er?	
•	Re	erved as a Mexican congressman ar eceived a land grant to settle 500 far ected ad interim vice president		
		Benito Martinez Domingo Ramon		Jose Antonio Navarro Lorenzo de Zavala
9.		left the Alamo to request help fro Juan Seguin Martin de Leon	C.	Col. James Fannin at Goliad. Ben Milam William Goyens
10	a.	hat created a new government for the Consultation of 1835 Constitution of 1836	C.	epublic of Texas? Mayflower Compact Turtle Bayou Resolutions
11.	firs	st chief justice.		c of Texas with appointed as the
		John Marshall Albert Sydney Johnston		James Collinsworth Henry Smith
12.	Rea. b. c.	Thy was the principle of checks and be epublic of Texas? To prevent abuse Protect individual rights People have a voice in their government to make sure that the branches work	nen	

13. Who con a. Churcl b. Lottery		pport to Texas public schools? c. State and local governments d. Local businesses
a. Collectb. Sets etc. Hires s	ne basic function of the Texas ts taxes and fees ducation policy and reviews te superintendents ducation policy into effect	
a. Provid b. Denies c. Makes d. Repre	vic participation important in a es conflict for the government s rights to its citizens contributions to the Church sentative democracies depene public services	•
Supreme a. Raul G	Court in 1986.	tatewide office, was elected to the Texas c. Mariano Arista d. Hernan Gallegos
17. What title	replaces the question mark?	?
General in Chie	f of the Army of Operations	President of the Republic of Mexico
a. Jose U b. Antoni	Jrrea o Lopez de Santa Anna	c. Simon Herrera d. Pedro Delgado
Treaty of	Velasco? Mountains	o withdraw beyond according to the c. Rio Grande del Norte d. Colorado River
19. Texas tro a. 5 leag b. One le		of Mexican troops. c. 10 leagues d. One mile
20. When wa a. 1 o'clo b. 6 o'clo		opted? c. 10 o'clock d. 12 o'clock

21. How was a loan of \$1,000,000 authorize repaid?	zed by the Convention of 1836 to be
a. Collection from citizens b. By Santa Anna	c. Taxes on goods from United Statesd. Proceeds of public land
22. Where did the new executives go follow 1836?	wing the adjournment of the Convention o
a. Galvestonb. Harrisburg	c. Goliad d. Dallas
 23. Why did the Texas colonists take up at a. In defense of the national constitution b. Quarrels over water rights c. Encourage military alliances d. To be allowed to join the United States 	on
24. Who was the President of the Conventa. Collin McKinneyb. George Childress	tion of 1836? c. Richard Ellis d. Bailey Hardeman
25. How did the colonists refer to these law	ws passed by the British Parliament?
 Closed the port of Boston until color Banned committees of corresponder Let British officials accused of crime 	-
a. Stamp Actb. Intolerable Acts	c. Declaratory Act d. Townshend Acts
b. The belief that a nation needs a largec. A feeling of pride, loyalty and protectd. A political system in which the King	ns increase their wealth and power by ablishing a favorable balance of trade ge military force ctiveness toward one's country
27. This passage is based on the philosop "We hold these truths to be self-evident they are endowed by their Creator with these are Life, Liberty and the pursuit o Independence	t, that all men are created equal, that certain unalienable Rights, that among
a. Voltaire b. Socrates	c. John Locke d. Pluto

1775	1777	1781
Lexington	?	Yorktown

28. What turning point battle in the Revolutionary War finishes the timeline?

a. Valley Forge

c. Savannah

b. Kaskaskia

d. Saratoga

29. Who was elected town messenger for the committee of safety that gave him safe passage through battle lines to carry news to and from the Provincial Committee at Exeter?

a. Johnny Tremain

c. Elbridge Gerry

b. Wentworth Cheswell

d. James Otis

- 30. Which position completes the chart about George Washington?
- Chosen as the commanding general of the Continental Army
- First President of the United States
 - a. Author of the Declaration of Independence
 - b. Wrote Common Sense
 - c. Created the Albany Plan of Union
 - d. President of the Constitutional Convention
- 31. What document guaranteed the rights that English colonists expected from living under an English government?

a. Mayflower Compact

c. Magna Carta

b. Open Door Policy

d. Platt Amendment

- 32. Why did the Pilgrims feel they needed an agreement for the sake of order?
 - a. Because they landed outside the limits of the Virginia Company, their charter did not apply
 - b. Trip had taken so long their charter was no longer valid
 - c. Numerous conflicts on the voyage from England
 - d. Leader of the group died before reaching Plymouth
- 33. How does the Constitution deal with the complaint that the King refused to allow colonial legislatures to meet regularly?
 - a. Article 1, Section 5 specified that meetings were to be held at the discretion of the President
 - b. Article 1, Section 4 specified that meetings were to be held every year
 - c. Article 1, Section 3 made it mandatory to meet every month
 - d. Article 1, Section 6 did not specify how often meetings were to be held

a. b. c.	hat is NOT a benefit of the free entergoives consumers certain rights Encourages inventors All members of society are equal pare Individuals can become entrepreneur	tne	•
a.	here is the home of the world's first d Egypt Persia	c.	ocratic constitution? Constantinople Athens
a.	is a form of limited government. Democracy Absolute monarchy		Dictatorship Theocracy
a. b. c.	That is the best definition for unlimited Government in which leaders rule win Type of government where, through leadership's role Percentage of people who can read the Unwritten set of laws based on local	thoo law and	ut any restrictions , some control is placed on write
a.	hich country has a communist econor Canada North Korea	Ċ.	Germany France
a. b. c.	Economy driven by forces including a Economic, social and political system which advocated the elimination of p Form of government in which the kin Economic system in which many bus government	n ba riva g oi	ased on the teachings of Karl Marx, te property queen governs with complete powe
a. b. c.	That is a benefit of the free enterprise of Electric companies are heavily regular Government runs the factories and factoridades are free to labor in whate The country is behind other countries of poor quality	ateo arm ver	d s job they want

UNIVERSITY INTERSCHOLASTIC LEAGUE 2022-23 A+ SOCIAL STUDIES INVITATIONAL TEST —GRADES 7 & 8

Answer Key

1.	В
_	_

2. D

3. C

4. A

5. C

6. B

7. A

8. D

9. A

10. B

11. C

12. D

13. C

14. B

15. D

16. A

17. B

18. C

19. A

20. D

21. D

22. B

23. A

24. C

25. B

26. A

27. C

28. D

29. B

30. D

31. C

32. A

33. B

34. C

35. D

36. A

37. A

38. B

39. D

40. C

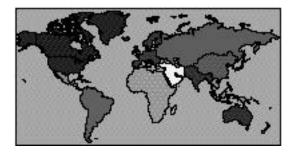
FALL/WINTER DISTRICT 2022-2023

A+ ACADEMICS





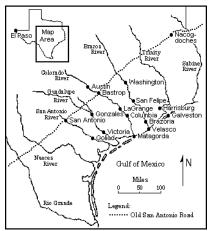




Social Studies grades 7 & 8

DO NOT OPEN TEST UNTIL TOLD TO DO SO

UNIVERSITY INTERSCHOLASTIC LEAGUE 2022-23 A+ SOCIAL STUDIES FALL/WINTER TEST – GRADES 7-8

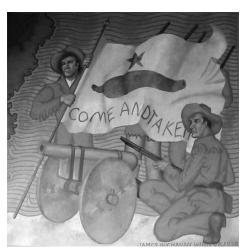


- 1. Where was the Republic of Fredonia?
 - a. San Antonio
 - b. Nacogdoches

- c. Galveston
- d. Jefferson
- 2. What document explained the actions taken by Texans at Anahuac on June 13, 1832?
 - a. Dawes General Allotment Act
- c. Plan de San Diego

b. Ashworth Act

- d. Turtle Bayou Resolutions
- 3. How did the Mexican government respond to Mier y Teran's report?
 - a. Passed the Law of April 6, 1830
- c. Constructed foreign trade zones
- b. Enacted a civil rights bill
- d. Called for a special election



- 4. Where was the brief battle over this cannon that began the Texas Revolution?
 - a. San Antonio

c. Gonzales

b. Bastrop

d. San Felipe de Austin

5. Who wrote these words "To the People of Texas and All Americans in the World"?

"I am besieged by a thousand or more of the Mexicans under Santa Anna-I have sustained a continual Bombardment & cannonade for 24 hours & have not lost a man-The enemy has demanded a surrender at discretion, otherwise, the garrison are to be put to the sword,"

a. William B. Travis c. David Crockett b. James Butler Bonham d. Juan Sequin

6. At which meeting did Texans declare their independence from Mexico?

a. Convention of 1845

c. Convention of 1836

b. Constitutional Convention

- d. Albany Plan of Union
- 7. Why were Fannin's troops forced to surrender at Goliad?
 - a. Texan reinforcements arrived
 - b. Additional weapons were obtained by Texas
 - c. Supplies arrived for the Texans
 - d. Heavy fog enabled Mexican troops to surround them on the open prairie where they had no cover and limited water
- 8. Who was this military and political leader of Texas?
 - Elected commander in chief of the regular army by the Consultation of 1835
 - First President of the Republic of Texas
 - Governor of Texas

a. Sidney Sherman

c. Mirabeau Lamar

b. Sam Houston

d. Henry Karnes

9. was the leader of a Tejano group that took part in the Battle of San Jacinto.

a. Erasmo Seguin

c. Juan Seguin

b. Martin de Leon

d. Pedro de Alvarado

10. What group was organized in the 1830s to protect settlers in Texas?

a. Texas Rangers

c. Sons of Liberty

b. Davis Guards

d. Old Three Hundred

11. Who was the first secretary of state of the Republic of Texas that only served a few months before his death?

a. Henry Smith

c. Thomas J. Rusk

b. James Collinsworth d. Stephen F. Austin

- 12. How was the principle of limited government applied in the new Constitution of the Republic of Texas?
 - a. Division of basic government roles into branches
 - b. The powers of each branch were limited to only those listed in the document
 - c. Guarantees certain personal liberties and privileges
 - d. Government in which people rule

 a. Fund receives money from state tax b. Puts education policy into effect c. Sets education policy d. Certificates that represent money ov 		
14. How do schools pay for special construction projects such as the construction of new buildings?		
a. License feesb. Motor fuels tax	c. Franchise taxesd. Bonds	
15. What is one of the most important civica. Take care of yourselfb. Voting		
16. Which position finishes the list of officeWhite House Chief of Staff?	s in which James Baker III served?	
Secretary of State		
a. Secretary of Defenseb. Press Secretary	c. Secretary of Treasury d. Attorney General	
effecting his solemn engagements"?		
a. Austinb. Mexico City	c. Houston d. Vera Cruz	
18. When was the Treaty of Velasco signed a. April 15, 1836 b. May 14, 1836	d? c. March 4, 1835 d. September 5, 1836	
19. How were Texas property owners to be compensated for property taken by the retreating Mexican army?		
	alue of the property consumed, the place taken, and the commander in Chief of the Army of Texas or appointed	
	•	
20. According to Col. Gray's diary, who introduced a series of resolutions to the Convention giving large land bounties to the volunteers?		
a. Kimbleb. McKinney	c. Conrad d. Collinsworth	
enemy's cavalry?	n passing through the town, state the position of the	
a. Passing the Colorado at Bastropb. Along the Rio Grande	 c. Within 10 miles of the Convention d. At Nacogdoches 7/8 Social Studies Fall/Winter 2022-23 • Page 3 	

13. What is the Permanent School Fund?

22. What is the definition of sine die?

"Soon after the passage of the resolution on the loan, the Convention adjourned, sine die, without any vote of thanks to the President."

a. Every year

c. For an indefinite period

b. Never to meet again

- d. Only if asked by the President
- 23. Where was the meeting of the Delegates of the People of Texas in General Convention in 1836?

a. Waterloo

c. Nacogdoches

b. Washington

- d. San Antonio
- 24. When did the Delegates of the People of Texas in General Convention meet?

a. April 21, 1836

c. September 5, 1836

b. May 5, 1836

- d. March 2, 1836
- 25. Why did Great Britain change their policy toward the colonists after the French and Indian War?
 - a. Britain wanted the colonies natural resources
 - b. Mexico impressed colonists as sailors
 - c. Britain wanted to govern its 13 original colonies and the territory gained in the war in a uniform way
 - d. Britain received large sums of money from Germany after the French and Indian War
- 26. The core idea of the Declaration of Independence is based on the philosophy of _____.

a. John Locke

c. Voltaire

b. Socrates

d. Pluto

April 19, 1775	October, 1777	Winter of 1777-78	October, 1781
Lexington	Saratoga	?	Yorktown

27. What battle that came to stand for the great hardships that Americans endured in the Revolutionary War finishes the timeline?

a. Trenton

c. Princeton

b. Valley Forge

- d. New Orleans
- 28. Which treaty ended the Revolutionary War, confirming the independence of the United States and setting the boundaries of the new nation?
 - a. Treaty of Guadalupe Hidalgo

c. Treaty of Tordesillas

b. Treaty of Ghent

d. Treaty of Paris 1783

		Defended British soldiers charged Delegate to Continental Congress Served on committee to draft the I		
		Robert Livingston John Adams		Roger Sherman Elbridge Gerry
30	a.	ho published poems and plays that at Dolly Madison Deborah Sampson	C.	cked royal authority in Massachusetts? Dorothea Dix Mercy Otis Warren
31	in a.	many American Revolutionary War ba	attle	an army of 6000 to America and he himself foughtes. Baron de Kalb David Bushnell
32	a.	hat did the colonists use as a model f Fundamental Orders of Connecticut Albany Plan of Union	c.	the Bill of Rights in the United States Constitution? English Bill of Rights Treaty of Versailles
33	a. b. c.	In essays that first appeared as letter At revivals Speeches given by community leader	rs i ers	s about the proposed new constitution? In newspapers and were later published in books In population by the constitution in newspapers and
34	a.	hat is a tax that is paid on goods that Duty Estate	c.	e brought into or taken out of a country? Tender Franchise
35	a. b. c.	Thy has Greece been called the "cradle Salt trade opened new routes to man Invaders from the North brought a ne Because we trace the beginnings ou Its location brought many travelers w	ket eed r po	s for protection plitical system to this place
36	a. b. c.	hat is a limited government? Government in which leaders rule wi Type of government where, through Social class based on a person's and Percentage of people who can read	law ces	r, some control is placed on leadership's power try
37	a. b. c.	totalitarian government is a Government in which people have not Partly self-governing territory Form of government in which citizens Nonreligious movement		ghts noose the nation's leaders by voting for them

29. What political leader was known for performing these actions?

38. What type of an economy do individuals determine for themselves what to produce, who will want it, how much to produce and how much to charge?

a. Traditional

c. Command

b. Market

d. Mixed

39. Which country is the best example of a socialist economy?

a. Canada

c. Myanmar

b. Brazil

d. Germany

40. What is a benefit for workers in the free enterprise system?

- a. Government decides what crops they will grow
- b. Workers do the same work for generations
- c. Government regulates the prices charged for goods
- d. Workers are free to work in whatever jobs they want and for whatever employers they want

UNIVERSITY INTERSCHOLASTIC LEAGUE 2022-23 A+ SOCIAL STUDIES FALL/WINTER TEST —GRADES 7 & 8

Answer Key

1.	В
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2. D

3. A

4. C

5. A

6. C

7. D

8. B

9. C

10. A

11. D

12. B

13. A

14. D

15. B

16. C

17. D

18. B

19. A

20. C

21. A

22. C

23. B

24. D

25. C

26. A

27. B

28. D

29. B

30. D

31. A

32. C

33. D

34. A

35. C

36. B

37. A

38. B

39. C

40. D

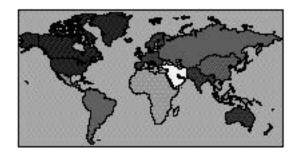
SPRING DISTRICT 2022-2023

A+ ACADEMICS









Social Studies

grades 7 & 8

DO NOT OPEN TEST UNTIL TOLD TO DO SO

UNIVERSITY INTERSCHOLASTIC LEAGUE 2022-23 A+ SOCIAL STUDIES SPRING DISTRICT TEST – GRADES 7-8

- 1. What revolt, led by Texas colonist Benjamin Edwards, began in 1826 after conflict with the Mexican government ended in the cancellation of his colony's contract?
 - a. Council House Fight

c. Grass Fight

b. Fredonian Rebellion

- c. March to the Sea
- 2. Which recommendation from Mier y Teran finishes the list?
 - Trade with Mexico and Texas should be increased
 - ?
 - Mexico should encourage more Europeans and Mexicans to settle in Texas
 - a. More trade treaties should be made with the United States
 - b. Decrease the production of cotton
 - c. Increase exploration of oil in Texas
 - d. More soldiers needed to be sent to Texas to increase Mexican control
- 3. Stephen F. Austin was arrested in _____ while returning to Texas after an important visit with government officials in Mexico City.
 - a. Saltillo

c. Laredo

b. San Antonio

d. Galveston



- 4. Where did Santa Anna raise the red flag of no quarter at the Battle of the Alamo?
 - a. San Francisco de los Tejas

c. San Fernando Cathedral

b. La Bahia

- d. Santa Cruz de San Saba
- 5. Who chaired the committee in charge of drafting the document declaring Texas independence?
 - a. George Childress

c. Jose Antonio Navarro

b. Robert Potter

d. Samuel Carson



- 6. Where is this monument a reminder of the Texas victory in the last battle of the Texas Revolution?
 - a. Sabine Pass
 - b. Coleto Creek battlefield
- c. San Jacinto battlefield
- d. Palo Duro Canyon
- 7. Who was this military and political leader?
 - Commanded a unit at the Battle of San Jacinto
 - Leader of scouts at the Battle of the Alamo
 - Mayor of San Antonio
 - a. Placido Benavides

c. Edward Burleson

b. Juan Seguin

- d. Martin de Leon
- 8. What Texas military leader fought at the Battle of Gonzales, commanded forces in the Battle of Concepcion and was in charge of troops at Goliad that surrendered to General Urrea and were later executed by order of Santa Anna?
 - a. James Bowie

c. Ben Milam

b. Almaron Dickinson

- d. James Fannin
- 9. Who became part of a rebel group that opposed the Law of April 6, 1830 and was arrested by Juan Davis Bradburn at Anahuac?
 - a. John Austin

c. Asa Hill

b. William B. Travis

- d. James Butler Bonham
- 10. What was one of the first actions of Houston and the Texas Congress in the new Republic?
 - a. Rio Grande was set as the border to the south and west
 - b. Red River was set as the northern border
 - c. Sabine River was set as the eastern border
 - d. San Antonio River was set as the southern border
- 11. Which city served as a capital of the Republic of Texas?
 - a. Nacogdoches

c. Fort Worth

b. Dallas

d. Houston

- 12. One of the two questions that had been on the Republic of Texas election ballot asked if voters favored annexation by the United States. What is annexation?
 - a. The large-scale farming and processing of crops
 - b. Dealings between a country and other countries
 - c. Formal joining of one political region to another
 - d. A tax on voting
- 13. How did the Constitution for the Republic of Texas establish a republican government?
 - a. System of government in which power is divided between a central government and smaller political units
 - b. Division of basic government roles into branches
 - c. Restricts the power of the government
 - d. Representatives and executive officials were elected by the people
- 14. What type of taxes contribute heavily to school funding in Texas?

a. Local property taxes

c. Franchise taxes

b. Investments

d. License fees

15. Who reviews standards for learning materials, schools, and teacher certification?

a. Education Planning Boardb. Office of Budget and Planningc. Texas Education Agencyd. Commissioners Court

- 16. Which Texas political leader served as Vice President of the United States from 1933-1941 after previously serving as Speaker of the House of Representatives?

a. James Allred

c. W. Lee O'Daniel

b. John Nance Garner

- d. Pat Neff
- 17. Why did the Delegates of the People of Texas in General Convention feel it was important to meet?
 - a. Unsuccessful business deal with the British
 - b. Oppression by the Mexican government
 - c. Alliance with France
 - d. Increased population growth
- 18. What did the Mexican government promise the Anglo-American people that colonized Texas?

a. A league of land for each colonist c. A railroad system

b. 100 cows for each colonist

- d. A written constitution
- 19. Who arrived at the Convention of 1836 and brought news that an attack had been made on the Alamo?

a. Mr. Lacy

c. Mr. Ainsworth

b. Mr. West

d. Mr. Rusk

- 20. How did the Convention of 1836 modify the land question from its first introduction?
 - a. To set aside the location of 11 league grants within 20 miles of the United States line
 - b. Three large grants
 - c. 40 acres
 - d. 10 leagues along the Rio Grande River

- 21. Where did delegates of the Convention of 1836 contract with its Commissioners for a million dollar loan?
 - a. New Orleansb. Atlantac. Savannahd. New York
- 22. How was the duplicate copy of the Secret Treaty of Velasco to be restored to Santa Anna?
 - a. To be held by the Texas government until Santa Anna reached Mexico City
 - b. Immediately
 - c. To remain folded and sealed until negotiations had been concluded
 - d. Santa Anna was never to receive a copy
- 23. Who signed the Secret Treaty of Velasco for Texas?
 - a. Sam Houston

c. Anson Jones

b. Henry Smith

- d. David G. Burnet
- 24. According to the Treaty of Velasco, when were hostilities between the Mexican and Texan troops to cease?
 - a. 30 days
 - b. Immediately
 - c. After Santa Anna arrived in Vera Cruz
 - d. When negotiations concluded
- 25. What was the Proclamation of 1763?
 - a. A law that distributed reservation land to individual owners
 - b. An act that stated that American ships were no longer allowed to sail to foreign ports, and it also closed American ports to British ships
 - c. An order in which Britain prohibited its American colonists from settling west of the Appalachian Mountains
 - d. A law that established a plan for surveying and selling the federally owned lands west of the Appalachian Mountains
- 26. Why did colonial leaders claim that Parliament had no right to tax the colonies?
 - a. Colonists were subjects of the United States and enjoyed the protection of their laws
 - b. Colonial leaders declared the right to govern without interference from Britain
 - c. Colonists had claims from France
 - d. Since colonists were not represented in Parliament
- 27. Who was first to sign the Declaration of Independence?

a. John Trumbull

c. Richard Henry Lee

b. John Hancock

d. Benjamin Franklin

- 28. How did delegates structure the new national government under the Articles of Confederation?
 - a. It gave few powers to the national government
 - b. Three equal branches of government
 - c. Powerful executive branch
 - d. Left no powers to the States

April 19, 1775 October, 1777 Winter of 1777-1778 October, 1781 Lexington Saratoga Valley Forge 29. Where did Cornwallis surrender his forces that finishes this timeline? a. Charlestown c. Yorktown b. Trenton d. Princeton 30. What title outlines these conditions that ended the American Revolution? ? 1. United States was independent 2. Its boundaries would be the Mississippi River on the west, Canada on the north and Spanish Florida on the south 3. The United States would receive the right to fish off Canada's Atlantic Coast, **Newfoundland and Nova Scotia** 4. Each side would repay debts it owed the other 5. The British would return any enslaved persons they had captured 6. Congress would recommend that the states return any property they had seized from Loyalists a. Treaty of Greenville c. Treaty of Ghent b. Treaty of Versailles d. Treaty of Paris 1783 31. was an early advocate of women's rights and one of the great letter writers in history. c. Marie Curie a. Molly Pitcher b. Abigail Adams d. Clara Barton 32. Who delivered these words in a famous speech before the Virginia House of Burgesses in March 1775? "I know not what course others may take. But as for me, give me liberty or give me death." a. Patrick Henry c. Nathan Hale b. William Wordsworth d. Robert Livingston 33. What were the Federalist Papers? a. A series of essays defending and explaining the Constitution b. Pamphlet that helped convince many Americans that a complete break with Britain was necessary c. Government document giving an inventor the exclusive right to make or sell his or her invention for a specific number of years d. Movement that emphasized the use of reason and scientific method to obtain knowledge 34. Who wrote the Federalist Papers? a. George Mason, Roger Sherman and Oliver Ellsworth b. Thomas Paine

c. John Peter Zenger

d. James Madison, Alexander Hamilton and John Jay

35. How does the Constitution deal with thea. First Amendmentb. Third Amendment	e colonial grievance of quartering troops? c. Fourth Amendment d. Fifth Amendment	
36. Who outlined his ideas of free enterpris	se in his book The Wealth of Nations, first published in	
a. Stephen Decaturb. Jay Gould	c. Adam Smith d. Henry Cabot Lodge	
37. Which European country did Americansa. Germanyb. Spain	s use as a basis for their laws and government? c. Great Britain d. Switzerland	
38. What was the foundation of Roman lawa. Mayflower Compactb. Magna Carta		
 39. A constitutional government is a. A form of government in which the king or queen governs with complete power b. Defined by the existence of a legal instrument or merely a set of fixed norms or principles c. All-powerful government leader d. A medieval workers' organization 		
40. What system is sometimes called a "free a. Market economyb. Command economy	ee enterprise system"? c. Traditional economy d. Mixed economy	

UNIVERSITY INTERSCHOLASTIC LEAGUE 2022-23 A+ SOCIAL STUDIES SPRING DISTRICT TEST —GRADES 7 & 8

Answer Key

1.	В
2.	D

_. _

3. A

4. C

5. A

6. C

7. B

8. D

9. B

10. A

11. D

12. C

13. D

14. A

15. C

16. B

17. B

18. D

19. C

20. A

21. A

22. C

23. D

24. B

25. C

26. D

27. B

28. A

29. C

30. D

31. B

32. A

33. A

34. D

35. B

36. C

37. C

38. D

39. B

40. A