Name _____   Grade: School: _____

5x(Last Problem Attempted)   + _____   + _____   + _____

9x(Number Incorrect)   - _____   - _____   - _____

TOTAL SCORE   _____   _____   _____

Grader's Initials   _____   _____   _____

2022-2023 Middle School Virtual Challenge Meet #3

Calculator Applications

DO NOT OPEN THE TEST UNTIL INSTRUCTED TO BEGIN

I. Calculator Applications rules and scoring—See UIL Constitution
- a. You will be given 30 minutes to take this test.
- b. There are 80 problems on this test.

II. 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*, $1.23x10^{0}$* $1.23x10^{1}$, $1.23x10^{01}$, .0190, 0.0190, $1.90x10^{-2}$
     Incorrect: 12.30, 123.0, $1.23(10)^{2}$, $1.23 \cdot 10^{2}$, $1.230x10^{2}$, $1.23*10^{2}$, 0.19, $1.9x10^{-2}$, $19.0x10^{-3}$, 1.90E-02
  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, as detailed below, 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. The decimal point and cents are required for exact-dollar answers.

III. Some symbols used on the test
- A. Angle measure: rad means radians; deg means degrees.
- B. Inverse trigonometric functions: arcsin for inverse sine, etc.
- C. Special numbers: π for 3.14159 ...; e for 2.71828...
- D. Logarithms: Log means common (base 10); Ln means natural(base e).

IV. Scoring:
1. Problems answered correctly are worth FIVE points. FOUR points will be deducted for all problems answered incorrectly or skipped before the last problem attempted.
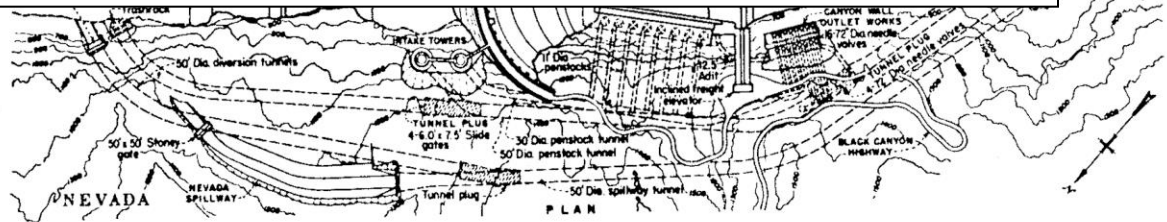
23U–1.   2210 – 1770 -- 1=_____

23U–2.   13 + 14 – 10 -- 2=_____

23U–3.   562 + 920 – 302 -- 3=_____

23U–4.   28 – 45 – 13 + 39 --------------------------------------- 4=_____

23U–5.   49 + 17 – 68 – 48 --------------------------------------- 5=_____

23U–6.   53.2 + 239 – 294 – 276 + 400 ----------------------------- 6=_____

23U–7.   (2.16 – 1.9) + (0.887 – 0.774 – 4.23) -------------------- 7=_____

23U–8.   (2.13 + π – 2.01) – (1.9 + 2.54) ------------------------- 8=_____

23U–9.   114 x 430 x 247 -- 9=_____

23U–10.   147 x 1490 x 1780 x 246 ---------------------------------- 10=_____

23U–11.   What is the quotient of 3.14 and e? ----------------------- 11=_____

23U–12.   The Artemis Project plans to place humans back on the
moon in 2025, the first time since 1972. The Artemis Project will cost
93 billion dollars. Two astronauts will be on the surface of the moon
for 6.5 days. What is the cost per second per astronaut to be on the
surface of the moon? -- 12=$_____

23U–13.   How many hours are there in the year 2023? -------------- 13=_____ hrs (integer)

23U–14.   (82)[65 x 79/110] --- 14=_____

23U–15.   (−98/403)[438 − 247] ------------------------------------- 15=_____

23U–16.   {(308)(220 − 197)(299)} − 8.81×10^5 ------------------- 16=_____

23U–17.   (270 + 393)[76 − 188 − 68] ---------------------------- 17=_____

23U–18. $\left[\dfrac{(101 + 455)}{63/341}\right]\left[\dfrac{0.0234}{0.0119}\right]$ ------------------------------------- 18=_____

23U–19. $\dfrac{(61/334) + (504/305)}{(666 − 615)}$ ------------------------------------- 19=_____

23U–20. $\dfrac{(\pi)(35/20)(12/43)}{322}$ ------------------------------------- 20=_____

23U–21. $\dfrac{214}{(144 − 92)} − \dfrac{(32 − 179)}{110}$ ------------------------------------- 21=_____

23U–22. $\left[\dfrac{2600 + 1220}{1520 − 963}\right]\left[\dfrac{1480}{2280}\right]$ ------------------------------------- 22=_____

23U–23. $\dfrac{[−(1340 + 535)(1640 − 719)]}{(0.0057/(3.53))}$ ---------------------------- 23=_____

23U–24.   Donna and Vanna wanted to buy as many cans of Play-Do as possible. If the cans are 6 for $2 and they have $25, how many cans can they purchase tax free?------------------------------------- 24=_____ (integer)

23U–25.   Amber jogged for 75 minutes averaging 6 mph and then she walked 2 hours at 3 mph. How far did she travel? ----------------- 25=_____ miles

23U–26.   How many seconds are there from noon Wednesday to Friday evening at 6:15 pm the same week? ---------------------------------- 26=_____ (integer)

23U−27. $\dfrac{(1.48 \times 10^9) + (6.02 \times 10^9)}{(-0.0362)(0.0568) - 0.00198}$ ---------------------------- 27=_____

23U−28. $(10.1)[(0.00566/0.00877)(23 + 45.6)]$ ------------------ 28=_____

23U−29. $\dfrac{(0.163 + 0.714)(0.022 + 0.0136)}{(4.14 \times 10^{12})}$ ----------------------- 29=_____

23U−30. $(70.4)\left[(9.29 \times 10^{11}) - (9.26 \times 10^{11})\right]$ -------------------- 30=_____

23U−31. $\dfrac{1}{0.271} + \dfrac{1}{(\pi)(0.211 - 0.105)}$ ------------------------------- 31=_____

23U−32. $\dfrac{1}{-0.247} + \dfrac{1}{(0.356 - 0.95)}$ ----------------------------------- 32=_____

23U−33. $\left[\dfrac{1/2270}{1/3020}\right][1.80 \times 10^5]$ ------------------------------------- 33=_____

23U−34. $\dfrac{1}{185} - \dfrac{1}{(233 + 273)}$ --- 34=_____
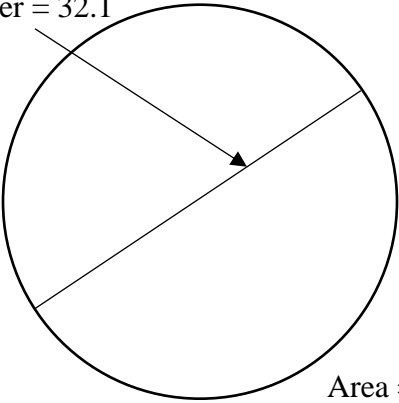
23U−35. If thirty-three thousand is divided by nineteen, what is the remainder? --- 35=_____ integer

23U−36. If a vertical meterstick casts a 25-cm shadow at the same time a nearby tower casts a 60-meter shadow, how tall is the tower? ------- 36=_____ m
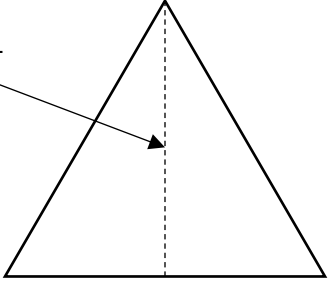
23U-37.
CIRCLE
Diameter = 32.1

Area = ?

23U-37=_____

23U-38.
EQUILATERAL TRIANGLE
Height = 11.4

Area = ?

23U-38= _____

23U–39. $(0.0212 + 0.0862 + 0.0356)^2(11.5 + 6.65)^2$ ------------ 39=_____

23U–40. $\sqrt[3]{\dfrac{0.503 + 0.846}{603 - 274}}$ ------------------------------------- 40=_____

23U–41. $\left[\dfrac{13500 + (1/(2.85\text{x}10^{-5}))}{(19500/17700) - 1.09}\right]^2$ ----------------------------- 41=_____

23U–42. $\sqrt{7820 - 6730 + 6170} - \sqrt{6930}$ -------------------------- 42=_____

23U–43. $\sqrt{24.5} + \sqrt{44.9 + 33.8} - (\pi)\sqrt{50.9}$ ----------------------- 43=_____
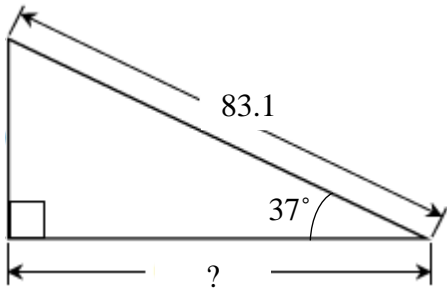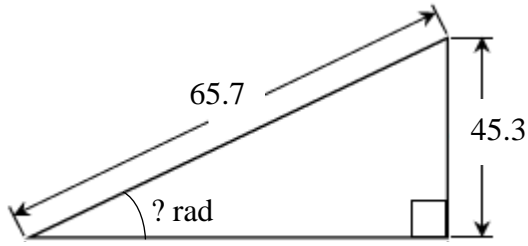
23U–44. $(1/(0.00155))(44000 - 20100)^2$ -------------------------- 44=_____

23U–45. $\dfrac{(1690 + 1930)^{1/5}}{(42800 - 23700)^{1/2}}$ ------------------------------------- 45=_____

23U–46. $\sqrt[4]{1.61 - 174/204} + 1/\sqrt{0.447 + 1.09}$ -------------------- 46=_____

23U–47.   A guy wire is attached to a tower and the ground forming
a right triangle. How long is the wire if it is attached 60 feet off the ground
and 30 feet from the base of the tower? -------------------------------- 47=_____ ft

23U–48.   If the radius of the Earth is 3960 miles what is the distance
from the North pole to the South pole on the surface? ----------------- 48=_____ mi

23U-49.	23U-50.
RIGHT TRIANGLE	RIGHT TRIANGLE
23U-49=_____	23U-50= _____

23U–51. $\dfrac{\sqrt{13.5 + \pi + 13.8}}{(23400 - 35400 + 7880)^3}$ -------------------------------- 51=_____

23U–52. $\left[\dfrac{\sqrt{\sqrt{0.00915 - 0.00818}}}{-(0.618 - 0.613)}\right]^2 [24.9 + 33.5]$ ------------------- 52=_____

23U–53. $\left[\dfrac{17.4 - 5.79 + \sqrt{1920/69.8}}{-354 + 474}\right]^4$ --------------------------- 53=_____

23U–54. $\sqrt{\dfrac{1/(146 - 107)}{(12.4)(285 + 618)^3}}$ ------------------------------------- 54=_____

23U–55. $2.15 + \sqrt{(1310)/(138)} - (0.222 + 0.424)^2$ ---------------- 55=_____

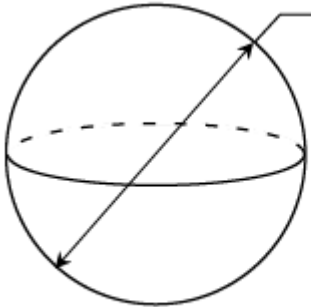23U–56. $(33)^2 \sqrt{(4.19)/(40.4)} - (92.9 + 74.1)$ -------------------- 56=_____

23U–57. $(\text{deg}) \sin(90.5°) + (2.49/2.6)$ ----------------------------- 57=_____

23U–58. $\sqrt{\dfrac{(4.58)(34.6)}{(805) + (264)}} - 3.25$ ------------------------------------- 58=_____

23U–59.   An airplane flies from Lubbock (KLBB) to Austin Executive (KEDC).
If the pilot averages 250 kts one direction and 200 kts the other direction.
What is the overall average speed for the entire trip? ------------------ 59=_____ kts

23U–60.   The formula for finding the distance of an object thrown
straight down for a certain amount of time (disregarding any air
friction) is $d = v_i \Delta t + .5g\Delta t^2$; where d is the distance, v_i is the initial
speed, g is the acceleration due to gravity, -32.174 ft/sec^2, and Δt is the
time the object is in flight. Gilbert throws a stone straight down and
2.25 seconds later the rock hits the ground 400 feet below. With what
initial speed did the rock leave Gilbert's hand? ------------------------ 60=_____ ft/s

23U-61.

SPHERE
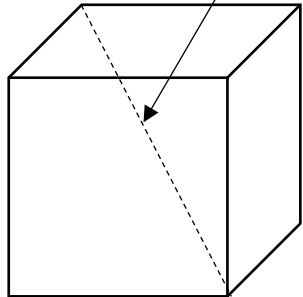
Dia. = ?

Area = 365

23U-61=_____

23U-62.

CUBE

Main Diagonal = 117

Volume = ?

23U-62= _____

23U–63. $\dfrac{17!/5!}{18! + 16!}$ --- 63=_____

23U–64. $(1.20 \times 10^6 - 2.73 \times 10^6)^{-8}(2.07 \times 10^7)$ --------------------- 64=_____

23U–65. (deg) $(942 + 3050)\tan(78.9°)$ ---------------------------- 65=_____

23U–66. (deg) $[109]\tan(3.65° - 9.56°)$ ---------------------------- 66=_____

23U–67. (deg) $\tan(36.4° - 15.2°) + 0.214$ ------------------------ 67=_____

23U–68. (deg) $\dfrac{\sin(6.45°)}{\tan(6.45°)}[20.9]$ ------------------------------------ 68=_____

23U–69. (rad) $(1.96)\sin(144)$ -- 69=_____

23U–70. $(1830 - 1620 + 2150)^{4/3}$ -------------------------------- 70=_____

23U–71. The sum of the first 30 natural numbers is divided by e.
What is the result?--- 71=_____

23U–72. The square root of a number cubed is equal to 79.2.
What is that number?--- 72=_____

23U-73.
SQUARE AND ISOSCELES TRIANGLE

6.1

?
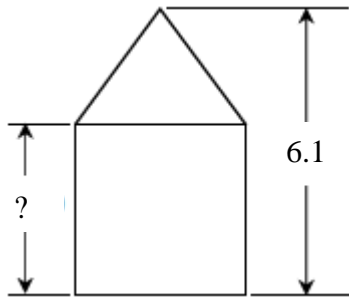
Total Area = 22

23U-73=_____

23U-74.
SCALENE TRIANGLE

125

88.1

103
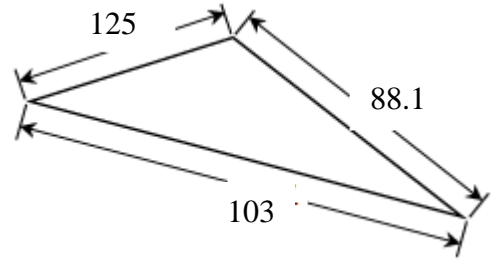
Triangle Area = ?

23U-74= _____ S

23U−75. $\dfrac{\text{Log}(3430 + 6000)}{2.91 - 4.38}$ --- 75=_____

23U−76. $\text{Ln}\left[\dfrac{62.9 + 86.5 + 84}{217 + 179 - 134}\right]$ --- 76=_____

23U−77. $2\text{Log}\sqrt{\dfrac{(86.7)(2.43)}{0.617 + 0.386}}$ --- 77=_____

23U−78. $\dfrac{\text{Log}[40200 + (79.5)(1530)]}{0.638 + \text{Log}[28 + 40.3]}$ ------------------------------- 78=_____

23U−79. $4 + 6 + 8 + \ldots + 420$ --- 79=_____

23U−80. $1 + \dfrac{(0.8)^4}{2} - \dfrac{(0.8)^6}{6} + \dfrac{(0.8)^8}{24} - \dfrac{(0.8)^{10}}{120}$ ------------------- 80=_____

23U-1 = 440
= 4.40×10^2

23U-2 = 17.0
= 1.70×10^1

23U-3 = 1180
= 1.18×10^3

23U-4 = 9.00
= 9.00×10^0

23U-5 = -50.0
= -5.00×10^1

23U-6 = 122
= 1.22×10^2

23U-7 = -3.86
= -3.86×10^0

23U-8 = -1.18
= -1.18×10^0

23U-9 = 1.21×10^7

23U-10 = 9.59×10^{10}

23U-11 = 1.16
= 1.16×10^0

23U-12 = $82,799.15

23U-13 = 8,760 integer

23U-14 = 3830
= 3.83×10^3

23U-15 = -46.4
= -4.64×10^1

23U-16 = 1.24×10^6

23U-17 = -119000
= -1.19×10^5

23U-18 = 5920
= 5.92×10^3

23U-19 = 0.0360
= 3.60×10^{-2}

23U-20 = 0.00476
= 4.76×10^{-3}

23U-21 = 5.45
= 5.45×10^0

23U-22 = 4.45
= 4.45×10^0

23U-23 = -1.07×10^9

23U-24 = 72 integer

23U-25 = 13.5
= 1.35×10^1

23U-26 = 195,300 integer

23U-27 = -1.86×10^{12}

23U-28 = 447
= 4.47×10^2

23U-29 = 7.54×10^{-15}

23U-30 = 2.11×10^{11}

23U-31 = 6.69
= 6.69×10^0

23U-32 = -5.73
= -5.73×10^0

23U-33 = 239000
= 2.39×10^5

23U-34 = 0.00343
= 3.43×10^{-3}

23U-35 = 16 integer

23U-36 = 240
= 2.40×10^2

23U-37 = 809
= 8.09×10^2

23U-38 = 75.0
= 7.50×10^1

23U-39   = 6.74
       = 6.74×10^0

23U-40   = 0.160
       = 1.60×10^{-1}

23U-41   = 1.73×10^{13}

23U-42   = 1.96
       = 1.96×10^0

23U-43   = -8.59
       = -8.59×10^0

23U-44   = 3.69×10^{11}

23U-45   = 0.0373
       = 3.73×10^{-2}

23U-46   = 1.74
       = 1.74×10^0

23U-47   = 67.1
       = 6.71×10^1

23U-48   = 12,400
       = 1.24×10^4

23U-49   = 66.4
       = 6.64×10^1

23U-50   = 0.761
       = 7.61×10^{-1}

23U-51   = -7.89×10^{-11}

23U-52   = 72800
       = 7.28×10^4

23U-53   = 0.000389
       = 3.89×10^{-4}

23U-54   = 1.68×10^{-6}

23U-55   = 4.81
       = 4.81×10^0

23U-56   = 184
       = 1.84×10^2

23U-57   = 1.96
       = 1.96×10^0

23U-58   = -2.86
       = -2.86×10^0

23U-59   = 222
       = 2.22×10^2

23U-60   = 214
       = 2.14×10^2

23U-61   = 10.8
       = 1.08×10^1

23U-62   = 3.08×10^5

23U-63   = 0.000461
       = 4.61×10^{-4}

23U-64   = 6.89×10^{-43}

23U-65   = 20300
       = 2.03×10^4

23U-66   = -11.3
       = -1.13×10^1

23U-67   = 0.602
       = 6.02×10^{-1}

23U-68   = 20.8
       = 2.08×10^1

23U-69   = -0.962
       = -9.62×10^{-1}

23U-70   = 31400
       = 3.14×10^4

23U-71   = 171
       = 1.71×10^2

23U-72   = 18.4
       = 1.84×10^1

23U-73   = 4.25
       = 4.25×10^0

23U-74   = 4,480
       = 4.48×10^3

23U-75   = -2.70
       = -2.70×10^0

23U-76   = -0.116
       = -1.16×10^{-1}

23U-77   = 2.32
       = 2.32×10^0

23U-78   = 2.11
       = 2.11×10^0

23U-79   = 44300
       = 4.43×10^4

23U-80   = 1.17
       = 1.17×10^0

THE VIRTUAL MEET EXPERIENCE

2022-2023
MIDDLE SCHOOL
VIRTUAL CHALLENGE MEET #3

DICTIONARY SKILLS 5/6

DO NOT OPEN TEST UNTIL TOLD TO DO SO

The Virtual Challenge Meets™

2022-2023
Middle School Virtual Challenge Meet #3
Dictionary Skills Test - 5th/6th Grade

1. William McKinley was the ____ president of the United States.
   - A. 27th
   - B. 25th
   - C. 20th
   - D. 24th

2. An alternate spelling of Habacuc is
   - A. Habbakuk.
   - B. Habbakkuk.
   - C. Habakkuk.
   - D. Habakuk.

3. If standards are stringent, they are
   - A. strict.
   - B. open to change.
   - C. flexible.
   - D. moderately lenient.

4. A Jute is a
   - A. tribal group in Arizona.
   - B. member of a Germanic people.
   - C. descendant of a Jewish clan.
   - D. person who invaded Poland in 1842.

5. Which of the following is not a time zone in the United States?
   - A. mountain
   - B. eastern
   - C. Pacific
   - D. plains

6. Which of the following sets of words is NOT in alphabetical order?
   - A. mojo, moldy, mole, mollify
   - B. skewness, skiff, ski jump, skid row
   - C. basis, basketry, bass clef, bassinet
   - D. fish hawk, fishhook, fish stick, fission

7. A derby can refer to a horse race or to a
   - A. domed building.
   - B. lightweight racing saddle.
   - C. narrow-brimmed hat.
   - D. native of London.

8. The word "travel" is derived from a Latin word that meant
   - A. "trip."
   - B. "training."
   - C. "pleasurable journey."
   - D. "torture."

9. To close within or as if within walls is to
   - A. edentate.
   - B. ungulate.
   - C. appall.
   - D. immure.

10. A shibboleth is a
    A. slogan.
    C. sash.
    B. Jewish rabbi's head covering.
    D. celebration of Hebrew heritage.

11. The Moselle River
    A. flows into the Black Sea.
    C. is found in Germany and Poland.
    B. is 340 miles long.
    D. extends 978 miles into France.

12. A heavy iron gate that can be lowered to prevent entrance is a
    A. drawbridge.
    C. transit.
    B. diadem.
    D. portcullis.

13. Wovoka was a(an)
    A. Indian village in Wisconsin.
    B. Norse god.
    B. Paiute mystic.
    D. Russian folk dance.

14. Quinquagesima is
    A. a 550 year celebration.
    C. the Sunday before Lent.
    B. something of the greatest essence.
    D. an Aztecan warrior.

15. Which word is a synonym for gainsay?
    A. suggest
    C. compliment
    B. contradict
    D. repeat

16. An urchin is a(an)
    A. mischievous child.
    C. angry old man.
    B. fish with a spiked tailfin.
    D. orphan.

17. Cali is a city in
    A. Colombia.
    C. India.
    B. the Philippines.
    D. Vietnam.

18. Augury refers to
    A. raising indigenous birds.
    C. being grand and noble.
    B. a black and white seabird.
    D. predicting the future.

19. The atomic weight for xenon is
    A. 173.04.
    C. 131.29.
    B. 54.0.
    D. 50.9415.

20. August and Jacques Piccard developed the
    A. first pulley system.   B. bathyscaphe.
    C. electron microscope.   D. aqualung.

21. A synonym for impetuosity is
    A. rashness.   B. increment.
    C. consequence.   D. rate of speed.

22. A plural form for aide-de-camp is
    A. aide-de-camp.   B. aides-de-camps.
    C. aides-de-camp.   D. aides-des-camps.

23. Dodo comes from a Portuguese word meaning
    A. flight.   B. silly.
    C. mocking.   C. raucous.

24. The mass of Neptune relative to earth is
    A. 49,528.   B. 17.15.
    C. 51,118.   D. 14.54.

25. Elijah is a Hebrew prophet of the _____ century B.C.
    A. 7th B. 4th
    C. 10th D. 9th

26. A prima donna is a person who is
    A. stuck-up.   B. generous to others.
    C. a lady in an Italian villa.   D. the first female born to an Italian lord.

27. A bursa is a
    A. bodily pouch.   B. small thorny seed case.
    C. bursting firework.   D. water sack carried on a saddle.

28. The abbreviation "Me" stands for
    A. measure.   B. Maine.
    C. median.   D. medical.

29. The sixth tone of a minor or major scale is a(an)
    A. sexton.   B. mordant.
    C. submediant.   D. earmark.

30. Procaine is typically used as a(an)

    A. antibiotic.   B. anti-itch agent.

    C. anticoagulant.   D. local anesthetic.

31. Indus is a(an)

    A. river in Pakistan.   B. Iberian ruler.

    C. Inca mountain city.   D. author in India.

32. A common black-and-white web-footed bird of the northern seas is a

    A. arrogate.   B. drone.

    C. murre.   D. waddle.

Matching

33. _____   treadle   A. a unit of speed

34. _____   baud   B. a foot peddle to operate a machine

35. _____   hazel   C. to make scratches or small cuts in

36. _____   palisade   D. outrageous

37. _____   mandamus   E. a boat with high sides and a flat bottom

38. _____   flagrant   F. a light brown to a strong yellowish brown color

39. _____   scarify   G. a stout high fence of stakes for defense

40. _____   dory   H. a writ from a superior court

Name: _____   **School:** _____   **MS VCM #** _____

<table>
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Middle School Virtual Challenge Meets
Dictionary Skills • Student Answer Sheet
Circle Grade Level:

5   6   7   8

</td></tr>
</table>

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

2022-2023

Middle School Virtual Challenge Meet #3

Dictionary Skills - 5th/6th Grade - ANSWER KEY

CORRECT ANSWER = 3 PTS, INCORRECT ANSWER = (-2) PTS, NO PENALTY FOR LEAVING BLANK

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

THE VIRTUAL MEET EXPERIENCE

PRESENTS

2022-2023
MIDDLE SCHOOL
VIRTUAL CHALLENGE MEET#3
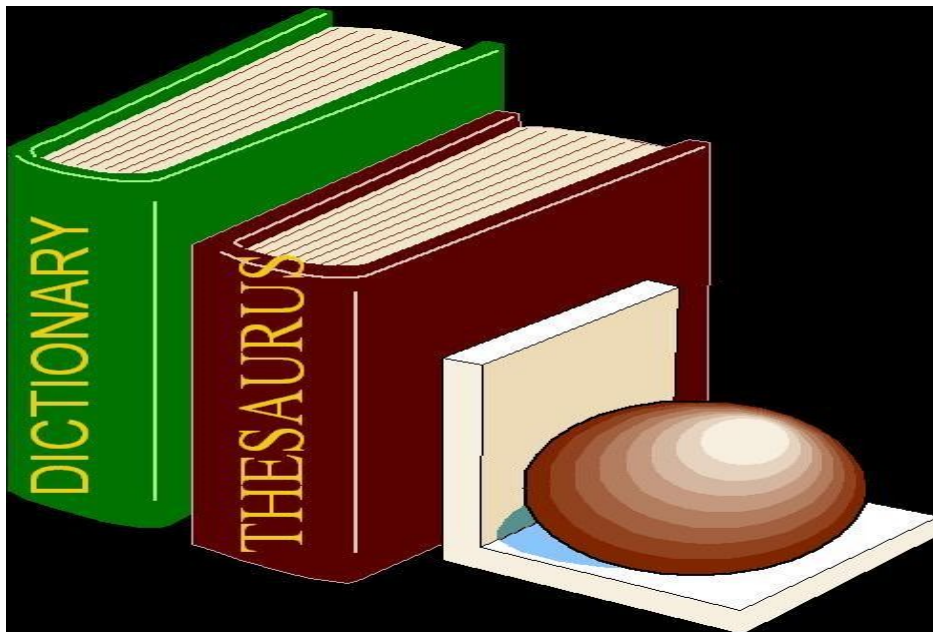
DICTIONARY SKILLS 7/8

DO NOT OPEN TEST UNTIL TOLD TO DO SO

The Virtual Challenge Meets™

2022-2023
Middle School Virtual Challenge Meet #3
Dictionary Skills Test - Grades 7th/8th

1. Scruff refers to
   - A. a small and tough boy.
   - B. the runt of a puppy litter.
   - C. the residue from sanding wood.
   - D. the skin on the back of the neck.

2. A laminaria is
   - A. candles in bags lighting a roadway.
   - B. a barn where sheep give birth.
   - C. any of various large kelp.
   - D. a female osprey.

3. Helena is the capital of
   - A. Montana.
   - B. Troy.
   - C. Greece.
   - D. Nebraska.

4. A milliard is 10 to the ___ power.
   - A. 10th
   - B. 9th
   - C. 12th
   - D. 18th

5. The abbreviation MSS stand for
   - A. messenger.
   - B. museums.
   - C. manuscripts.
   - D. monsignor.

6. To impinge is to
   - A. pinch with a thumb and finger.
   - B. strike with a sharp collision.
   - C. softly ring a bell.
   - D. hold steady with a vise.

7. Which of the following is a small object worn as a charm against evil?
   - A. cardigan
   - B. locket
   - C. amulet
   - D. urn

8. Avoirdupois units are used as
   - A. the primary weight in France.
   - B. a measurement of distance.
   - C. the French equivalent of ounces.
   - D. the U.S. common system of measuring weight.

9. A tropical American rodent about the size of a rabbit is a(an)
    A. agouti.   B. leveret.
    C. jackdaw.   D. nubble.

10. Worm gear is a(an)
    A. type of mechanical linkage.   B. pulley system.
    C. type of lure for fishing.   D. kit used for dissecting annelids.

11. A drumlin is a(an)
    A. part of a marching band.   B. large container in a distillery.
    C. hill formed from a glacier.   D. tool for carving wood.

12. The root *sapiens* in the word Homo sapiens means
    A. "upright."   B. "wise, intelligent."
    C. "rule, control."   D. "superior."

13. A male ruffled grouse has
    A. distinctive markings around the eyes.   B. a hooked beak.
    C. excessively long tail feathers.   D. shiny black feathers around the neck.

14. Which of the following sets of words is NOT in alphabetical order?
    A. lotus, loud, lousiness, louver
    B. bunch, bung, bunghole, bungee
    C. forbode, forced, ford, fore
    D. crematory, Creole, crepe suzette, crescendo

15. Utopia is
    A. located in the Caribbean.   B. an island in the South Pacific.
    C. a reason for warfare.   D. an impractical scheme for improvement.

16. There are no surviving fossils from the
    A. Hadean Eon.   B. Triassic Period.
    C. Paleozoic Era.   D. Cenozoic Era.

17. Suriname was formerly a territory of
    A. India.   B. Guyana.
    C. the Netherlands.   D. North Africa.

18. To place or hide securely is to
    A. embroil.   B. ensconce.
    C. debunk.   D. assuage.

19. Quinine is used
    A. for treating chronic acne.   B. to treat malaria.
    C. as an analgesic.   D. as a dye for MRI scans.

20. Which word is not a synonym for "spunk"?
    A. courage   B. impetuosity
    C. pluck   D. spirit

21. Great knowledge or understanding is
    A. mimicry.   B. homologue.
    C. profundity.   D. cockiness.

22. A flambeau is a
    A. sword swallowing act.   B. flaming torch.
    C. flaming dessert.   D. tall, feathered showgirl hat.

23. A nave is
    A. the hub of a wheel.   B. an initiate to the priesthood.
    C. t h e center of one's navel.   D. a servant to a lord.

24. Adonis is loved by
    A. Helen of Troy.   B. Sybil.
    C. Juno.   D. Aphrodite.

25. A knout is
    A. a whip for beating criminals.   B. the backside of a doorknob.
    C. a club wielded by a knight.   D. an oblong box inlaid with silver.

26. A cruet is a(an)
    A. thin tie for a tuxedo.   B. miniature ornate spoon.
    C. small glass bottle for sauce.   D. enameled cameo.

27. One who does something on a small scale is a(an)
    A. cracker.   B. piker.
    C. itinerant.   D. mandible.

28. The abbreviation for crystalline is
    A. cry.   B. cst.
    C. crys.   D. cryst.

29. A person who is in arrears is
    A. behind in paying debts.   B. in sorrow over the loss of a loved one.
    C. at the back of a pack of runners.   D. wasting away.

30. A plover is a(an)
    A. shorebird.   B. parrot indigenous to the Indies.
    C. tri-colored flower.   D. grain grown in tropical climates.

31. Derogatory is an adjective
    A. referring to an oil rig worker.   B. expressing a low opinion.
    C. that creates suspense.   D. that expresses annoyance.

32. Which of the following words refers to a young bird?
    A. shuck   B. biretta
    C. squab   D. equine

Matching

33. _____ epistle   A. swinging bar connecting an harness to a cart

34. _____ pellucid   B. a membrane surrounding the brain

35. _____ snide   C. a beginner in learning

36. _____ whiffletree   D. an official approval

37. _____ imprimatur   E. a formal letter

38. _____ yuan   F. low; mean

39. _____ meninx   G. basic unit of money in China

40. _____ tyro   H. extremely clear or transparent

Name: _____   **School:** _____   **MS VCM #** _____

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FOR GRADER USE ONLY

_____ out of 120.   Grader #1 Initials _____

_____ out of 120.   Grader #2 Initials _____

CORRECT ANSWER = 3 PTS
INCORRECT ANSWER = (-2) PTS
NO PENALTY FOR LEAVING BLANK

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Middle School Virtual Challenge Meets
Dictionary Skills • Student Answer Sheet
Circle Grade Level:

5   6   7   8

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

2022-2023
Middle School Virtual Challenge Meet #3
Dictionary Skills - 7th/8th Grade - ANSWER KEY

CORRECT ANSWER = 3 PTS, INCORRECT ANSWER = (-2) PTS, NO PENALTY FOR LEAVING BLANK

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

THE VIRTUAL MEET EXPERIENCE

PRESENTS

2022-2023
MIDDLESCHOOL
VIRTUAL CHALLENGE MEET #3
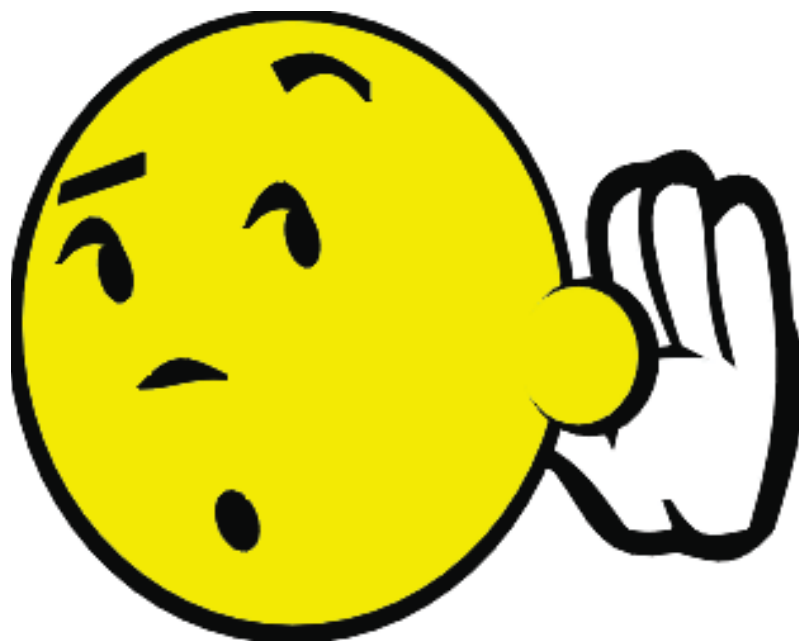
LISTENING SKILLS 5/6

DO NOT OPEN TEST UNTIL TOLD TO DO SO

The Virtual Challenge Meets™

2022-2023 MS VCM #3
LISTENING SKILLS - GRADES 5/6

Audie Murphy: The most decorated soldier of World War II

1. On December 7, 1941, the Empire of _____ attacked the U.S. naval base at Pearl Harbor.
    A. Germany
    B. Italy
    C. Japan
    D. France

2. After his army training, Murphy was sent to French held _____, in northern Africa.
    A. Tunisia
    B. Morocco
    C. Egypt
    D. Russia

3. On June 4, 1944, American forces liberated the city of _____.
    A. Rome   B. Paris
    C. Moscow   D. Berlin

4. Murphy's platoon was moved to a region called the _____, where Germans destroyed an American M10 tank destroyer.
    A. Lower River   B. Colmar Pocket
    C. Black Forest   D. Upper East Side

5. At least twice during his service during World War II, Murphy was hospitalized with _____.
    A. malaria   B. tendonitis
    C. trench mouth   D. yellow fever

6. Many of the German and Italian POWs captured in northern Africa were sent to _____, near Tyler, Texas.
    A. Camp Meade   B. Camp Davis
    C. Camp Laurel   D. Camp Fannin

7. A _____ is an award given by the Armed Forces for heroism and valor.
    A. Silver Locket   B. Gold Moon
    C. Platinum Leaf   D. Bronze Star

8. Since Audie's parents did not own the land they farmed, they were known as
_____.
      A. plow workers
      B. farmer's sons
      C. mule drivers
      D. sharecroppers

9. President _____ spoke to Congress, saying the bombing of
Pearl Harbor would be a, "day which will live in infamy".
      A. Franklin D. Roosevelt   B. Lyndon B. Johnson
      C. George W. Bush   D. John F. Kennedy

10. Murphy was killed in a _____ crash.
      A. automobile
      B. train
      C. plane
      D. motorcycle

11. With the outbreak of the _____ War, Audie returned to active duty in
the military.
      A. Vietnam   B. Gulf
      C. Korean   D. Iraq

12. After fighting for years in Europe, Murphy was diagnosed with
_____, also known as battle fatigue.
      A. SARS   B. PTSD
      C. MERS   D. OCD

13. Audie's autobiography was titled _____.
      A. *A Tough War*   B. *To Hell and Back*
      C. *My European Trip*   D. *A Walk Through Italy*

14. Murphy starred in at least _____ movies.
      A. 28   B. 36
      C. 55   D. 63

15. After fighting in Africa, Audie's 3rd Infantry Division was moved to the island of
_____.

      A. Crete   B. Capri

      C. Santorini   D. Sicily

16. The _____ is America's most distinguished medal for
bravery on the battlefield.

      A. Medal of Bravery

      B. Medal of Distinguishment

      C. Medal of Courage

      D. Medal of Honor

17. Audie Murphy was born in the rural community of _____, in
Hunt County, Texas.

      A. Stephenville   B. Tundra

      C. Kingston   D. Colfax

18. During World War II, the Air Force was called the _____..

      A. Army Air Corps   B. Naval Airmen

      C. The Marine Air Fighters   D. Coastal Air Guard

True/False

19. The official enlistment age at the beginning of World War II was 21.

20. Hawaii was a state in the United States in 1941.

21. Audie Murphy completed his basic training at Camp Wolters.

22. James Cagney saw an article about Murphy in *Sports Illustrated* magazine.

23. Murphy is buried at Arlington National Cemetery.

24. Audie Murphy was 6 foot, two inches tall.

25. European operations of World War II ended in June, 1944.

Name: _____ **School:** _____ **MS VCM #** _____

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FOR GRADER USE ONLY

_____ out of 75.   Grader #1 Initials _____
_____ out of 75.   Grader #2 Initials _____

CORRECT ANSWER = 3 PTS
INCORRECT ANSWER = (-2) PTS
NO PENALTY FOR LEAVING BLANK

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Middle School Virtual Challenge Meets
Listening Skills • Student Answer Sheet
Circle Grade Level:

5   6   7   8

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</table>

1.   A   B   C   D   14.   A   B   C   D

2.   A   B   C   D   15.   A   B   C   D

3.   A   B   C   D   16.   A   B   C   D

4.   A   B   C   D   17.   A   B   C   D

5.   A   B   C   D   18.   A   B   C   D

6.   A   B   C   D   19.   T   F

7.   A   B   C   D   20.   T   F

8.   A   B   C   D   21.   T   F

9.   A   B   C   D   22.   T   F

10. A   B   C   D   23.   T   F

11. A   B   C   D   24.   T   F

12. A   B   C   D   25.   T   F

13. A   B   C   D

2022-2023 MS VCM #3
LISTENING SKILLS - GRADES 5/6

Audie Murphy: The most decorated soldier of World War II

"No son, I'm sorry, you're just too young," said the recruiter, as the young man, almost in tears, turned away and headed for the door. Then, the gruff sergeant, as if to add insult to injury, added, "oh, and you're also too short!", as the boy slammed the door behind him. It was strike three for the day. The United States Marines, the United States Navy, and, now, the United States Army were all in agreement. None of them had any place for the young farmer Audie Murphy.

He glanced down the cold, dusty street in both directions. Everywhere he looked Greenville, Texas was abuzz with the biggest news Audie could remember. On December 7, 1941, the empire of Japan had recently attacked the U.S. naval base at Pearl Harbor in the far United States territory of Hawaii. The next day, Murphy had listened to President Franklin D. Roosevelt speak to a joint session of the United States Congress, proclaiming it, "a day which will live infamy..." He

1:00   then went on to ask that the legislative branch vote for a declaration of war against Japan, with the Congress most readily complying. Four days later, Germany declared war on the United States, with the United States immediately reciprocating the measure. The United States was now a full combatant in the second world war of the 20th Century.

Almost immediately, thousands of young men headed to the nearest armed forces' recruiters. At the time, there were three choices: Navy, Marines, or Army. The Air Force was then still part of the Army, then called the Army Air Corps. Murphy chose the Army.

He was born on June 20, 1925 in the rural community of Kingston, in Hunt County, Texas. His parents were sharecroppers. A sharecropper doesn't own the land he farms. So, he has to give part of his crop to the land owner as rent. Being the seventh of twelve children, Audie spent much of his time as a young child picking cotton in the fields to help his family put food on the table. But the back breaking toil

2:00   made him want something more glamorous. And when Pearl Harbor occurred, the sixteen year old headed to enlist.

Officially, the enlistment age in 1941 was 21. The armed services weren't terribly picky though and many men lied about their age if they looked older than they were. But the five foot, five inches, baby faced Audie quickly found that none of the services would look the other way, even if he said he was older. Not to be deterred though, he

convinced his sister to sign an affidavit, or letter swearing, that he was born in 1924, not 1925. Still not officially old enough for enlistment, that extra year seemed to satisfy the Army, where he enlisted in June of 1942.

The Army shipped him to Camp Wolters west of Fort Worth in Mineral Wells, where he completed his basic training. Then he transferred to Camp Meade in Maryland, there earning a marksman badge for rifles and an expert badge with the bayonet.

On February 20, 1943 he was shipped to French held Morocco, in northern Africa. There Great Britain and the United States were pushing the Axis powers of Germany and Italy back into Europe. Almost three months later, on May 13, the last Italian forces surrendered. Murphy's 3rd Infantry Division was dealt the 3:00 monumental task of sorting the 275,000 new prisoners of war from both Italy and Germany. Some of the German POWs would be sent to Camp Fannin, near Tyler, Texas, only an hour's drive from Audie's hometown.

Over the next several months, the 3rd Infantry Division would move to the Mediterranean island of Sicily, pushing the Italians and Germans back to mainland Italy, where Murphy would land in September, 1943. There, while scouting positions, he and two other soldiers were ambushed, with one being killed. Murphy and the other remaining soldier fended off the attack with machine gun fire and hand grenades, killing five German soldiers. By December, Audie was promoted to Sergeant.

But as 1943 turned to 1944, he found himself in an army hospital with malaria, a blood borne disease carried by mosquitoes that produces high fever, chills, headaches, and nausea. By March he was well enough to return to his platoon near Anzio, Italy, just south of Rome. There they engaged a German tank. Murphy was able to climb near the tank, alone, and close enough to dismantle it with rifle grenades. His bravery in this action earned him a Bronze Star. A Bronze Star is an award given by the armed forces for heroism or valor.

Unfortunately though, he was soon back in the hospital, again fighting off another bout of malaria. Thankfully though this round didn't last long and he was back on patrol with his Company in no time, taking more German prisoners and also 4:00 earning the Combat Infantryman Badge and the Bronze Oak Leaf Cluster to adorn his already awarded Bronze Star.

On June 4, 1944, the American forces would liberate Rome. Murphy would stay in the city until August. Then his platoon invaded southern France, pushing back the German army. On August 15, 1944, the group was sweeping through a vineyard when they were ambushed. Murphy grabbed a machine gun and returned fire, killing two and

wounding one. Two Germans came out of a farmhouse seemingly with the intent to surrender. But when U.S. soldiers moved to arrest them the Germans shot and killed them. The 112 pound, five foot, five inches tall platoon sergeant made a solo frontal assault on the house under enemy fire. When the dust settled, six enemies were dead, two wounded, and he'd taken eleven prisoners of war, or POWs. This earned him the Distinguished Service Cross.

5:00   A month later he was wounded in the heel, earning him the first of his Purple Hearts. A Purple Heart is a medal given for being wounded while in combat.

In January, 1945 his platoon was moved into eastern France to a region called the Colmar Pocket. Germans were stubbornly resisting the advances of the American forces. Murphy's Division was tasked with dislodging them. In the ensuing battle, the Germans destroyed an American M10 tank destroyer. He ordered his troops to retreat away from the destroyer, while staying with the burning hulk. While still being fired upon by the enemy, he climbed aboard and used its still functional 50 caliber machine gun on the advancing German soldiers, killing an entire squad. The battle between the one American soldier and what seemed like countless enemies lasted for over an hour, only ending when Audie ran out of ammunition. He retreated and rejoined his men, then leading them back to his original position at the tank destroyer, continuing and winning the fight. This bravery earned him the Medal of Honor, America's most distinguished medal for bravery on a battlefield. He was also promoted to First Lieutenant.

At this point, his star was growing within the Army and back home. He was removed from the front lines and began work at this regimental headquarters, where he would stay until European Operations of the war ended in June, 1945.

6:00
The Army sent him back home to Texas with a thirty day leave. By this point he was a full blown celebrity. It seemed everywhere he traveled he was regaled with parades and celebrations in his honor. On the outside everything seemed great. But years of fighting in some of the most hostile conditions ever seen began to take its toll on him mentally. He would eventually be diagnosed with what was then called "battle fatigue" or "shell shock". Today we know it as posttraumatic stress disorder, or PTSD.

Thankfully, he was able to alleviate the tension through several outlets. He began writing poetry at first, and then a full memoir of his time in the war titled *To Hell and Back*. It was during this time that his celebrity persona preceded him. James Cagney, a famous actor at the time, saw an article about Murphy in *Life* magazine and invited

him to Hollywood. It wasn't long before he was starring in movies, with his first role in 1950 playing Billy the Kid. His acting career grew steadily and in 1955 he

7:00 — starred as himself in the film adaptation of his memoir, *To Hell and Back.* Throughout the next decade he would go on to star in at least 28 movies.

Even after becoming a successful actor though, old habits die hard. And with the outbreak of the Korean War on June 25, 1950, Murphy returned to active duty in the military. This time though he joined his home state's Army National Guard as a Captain, training new recruits of the 36th Infantry Division. He would be active and inactive several times until 1969, finally leaving the military for good.

Two years later on May 28, 1971 Audie climbed into a small, twin engined airplane with the pilot and four other passengers. The aircraft taxied down the runway and lifted off the ground into gray, rain filled skies near Atlanta, Georgia. Almost three hours later, with weather conditions worsening, the plane crashed into Brushy Mountain very near the Appalachian Trail close to the city of Roanoke, Virginia, killing all on board.

Murphy was buried with military honors at Arlington National Cemetery across the Potomac River from Washington D.C. Texas resident, current United Nations Ambassador, and future United States President George H.W. Bush was in attendance. Cemetery rules allow Medal of Honor recipients a special headstone. Years before though, he had declined the honor, instead choosing the standard issue grave marker.

8:00 — Besides his headstone, today Audie Murphy's name can be found in many places, from a Veterans' Administration Hospital in San Antonio, Texas to a star on the Hollywood Walk of Fame!

2022-2023 Middle School Virtual Challenge Meet #3

Listening Skills Contest - Grades 5/6 - Answer Key

Correct Answer=3pts, Incorrect Answer=(-2) pts, No penalty for leaving blank

Audie Murphy: The most decorated soldier of World War II

1. ___C___
2. ___B___
3. ___A___
4. ___B___
5. ___A___
6. ___D___
7. ___D___
8. ___D___
9. ___A___
10. ___C___
11. ___C___
12. ___B___
13. ___B___
14. ___A___
15. ___D___
16. ___D___
17. ___C___
18. ___A___
19. ___T___
20. ___F___
21. ___T___
22. ___F___
23. ___T___
24. ___F___
25. ___F___

THE VIRTUAL MEET EXPERIENCE

PRESENTS

2022-2023
MIDDLESCHOOL
VIRTUAL CHALLENGE MEET #3

LISTENING SKILLS 7/8

DO NOT OPEN TEST UNTIL TOLD TO DO SO

The Virtual Challenge Meets[TM]

2022-2023 MS VCM #3
LISTENING SKILLS - GRADES 7/8

"The Fall of the Aztecs"

1. _____ ruled the area, that would later be called Spain, for 800 years.
   A. Cossacks
   B. Moors
   C. Jews
   D. Buddhists

2. The Spanish departure from Tenochtitlan was noticed by an elite guard of Aztec warriors called the _____.
   A. Hawk Fighters
   B. Osprey Warlords
   C. Falcon Soldiers
   D. Eagle Warriors

3. Upon his return to Tenochtitlan, Cortes decided to build brigantines, a type of two-masted _____, to assault the city .
   A. ships   B. planes
   C. bridges   D. horses

4. The night the Spanish were forced from Tenochtitlan is known as La Noche Triste, or the _____..
   A. Night of Sorrows   B. Spanish Darkness
   C. Aztec Assault   D. Watery Grave

5. Christopher Columbus sailed under the Spanish flag, but he was born in _____.
   A. Portugal   B. Andorra
   C. Italy   D. France

6. The Islamic invaders that ruled the Iberian Peninsula for 800 years surrendered their last fortress, Alhambra, in the city of _____.
   A. Madrid   B. Granada
   C. Seville   D. Paris

7. Today, the island known as Hispaniola is shared by the countries of _____ and _____.
   A. France and England   B. Russia and Germany
   C. Haiti and the Dominican Republic   D. Italy and Spain

8. The original name the Aztecs called themselves is where the modern name of _____ originates.
         A. Spain
         B. England
         C. Columbia
         D. Mexico

9. Once the new world was discovered, the Spanish forgot about a new route to Asia and began a search for _____.
         A. lumber   B. gold
         C. salt   D. horses

10. _____ was the name of the woman Cortes married.
         A. La Malinche
         B. El Bordo
         C. La Mujer
         D. La Chica

11. Cortes met a Franciscan priest when he first landed on the _____.
         A. Korean peninsula   B. Yucatan peninsula
         C. Florida peninsula   D. Baja peninsula

12. The wife of Cortes was given to him after his conquistadors overran a group of natives in the present day Mexican state of _____.
         A. Chiapas   B. Tabasco
         C. Coahuila   D. Puebla

13. The city of _____ was founded by Cortes.
         A. Matamoros   B. Chihuahua
         C. Cancun   D. Veracruz

14. A _____ reaches heights of over 17,000 feet to the east of present day Mexico City.
         A. Cortes monument   B. pyramid
         C. volcano   D. communications tower

15. The main temple in Tenochtitlan was called the _____.
         A. Templo Mayor   B. Plaza de la Reforma
         C. Hall of Justice   D. Bella Artes

16. Moctezuma initially refused to meet Cortes, but changed his mind after Cortes
_____.
    A. became a priest in Tenochtitlan
    B. asked the King of Spain to request a meeting with Moctezuma
    C. massacred nobility and burned the city of Cholula
    D. became the mayor of Cuba

17. After the Spanish were forced from Tenochtitlan, they gained reinforcements from
_____.
    A. France   B. Cuba
    C. Morocco   D. Germany

18. _____ and _____ combined their kingdoms
to form the country of Spain.
    A. King Charles and Queen Victoria   B. King Philip and Queen Anne
    C. King Henry and Queen Elizabeth   D. King Ferdinand and Queen Isabella

True/False

19. Cortes' wife spoke Mayan.

20. Cortes' army arrived in the valley of Mexico on November 8, 1519.

21. Some accounts say Moctezuma was stoned to death by the Spanish.

22. Modern day Mexico City has a population over 22,000,000.

23. Lake Texcoco surrounded a vast city of the Aztecs.

24. Hernan Cortes was born in the city of Barcelona.

25. Christopher Columbus left Spain in search of a new route to India to trade spices.

2022 Middle School Virtual Challenge Meet #3
Listening **Skills** - Grades 7th/8th - **Answer Document**

Correct Answer=3pts, Incorrect Answer=(-2) pts, No penalty for leaving blank

"The Fall of the Aztecs"

1. _____

2. _____

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24. _____

25. _____

2022-2023 MS VCM #3
LISTENING SKILLS - GRADES 7/8

The Fall of the Aztecs

The leather shoe splashed into the brown, wet, sand as the man jumped from the small rowboat with several other men and headed ashore. The group of Spaniards waded several yards to dry land. The man, Hernan Cortes, was the leader of the third wave in three years to come ashore on what would become the country of Mexico. His retinue consisted of eleven ships that housed approximately 500 men while also carrying thirteen horses and fourteen cannon. The men had sailed west from the settlement of Cuba, founded eight years earlier in 1511.

To Cortes, this new world seemed to be another planet, especially considering his path to get to that spot. He was born in 1485 in the city of Medellin on the Iberian Peninsula in Europe. At that time, the country of Spain didn't exist. His hometown was then a part of an area known as the Kingdom of Castille. Not long after his birth, in 1492, two major events occurred that would change the course of the western hemisphere. First, the Moors surrendered their last fortress, the Alhambra, in the city of Granada, ending almost 800 years of ruling over the future Spain. When this happened Queen Isabella of Castille and King Ferdinand of Aragon decided to combine their kingdoms, effectively creating the country we know today as Spain.

1:00

The Moors, Islamic conquerors from Africa, had ruled the people of the peninsula for almost 800 years. Once that yoke was shed, the new country of Spain wanted to expand its borders and spread its own religion of Christianity. The same year of their liberation, the ruling duo commissioned Christopher Columbus, an Italian explorer, to fly the new Spanish flag as it sailed across the Atlantic Ocean in search of an undiscovered route to India. But, while failing in that endeavor, he initiated the first European contact with the continents we know now as North and South America, and its original inhabitants, of which there were millions.

Geography quickly dashed the drive for a quicker way to trade spices with Asia. But, the Spaniards found a much better item in this new land to plunder, gold. Columbus had first landed on one of the islands in the Bahamas. But Spanish settlements soon moved more westerly into the Caribbean, conquering the island we now know as Hispaniola. Today, the countries of

2:00

Haiti and the Dominican Republic share this island. It was here, in 1504, that Cortes came to the new world.

Over the next fifteen years Cortes maneuvered his way through the political ranks in the Spanish society of the new world, and by February 1519 was standing on the mainland of North America, ready to colonize and explore the area.

He first landed on the Yucatan peninsula where he found a Francisican priest from Spain who had been shipwrecked and spent time as a captive of the Mayan peoples, where he learned their language. Cortes quickly enlisted him as an interpreter. He then moved north along the western Gulf of Mexico coastline. His group of 3:00 conquistadors were now in the present Mexican state of Tabasco when they engaged a hostile group of natives. The indigenous people were quickly overrun. In tribute to the new invaders, the vanquished gave Cortes a group of twenty young women. Cortes immediately converted them to Christianity, and, rather rashly, married one of them. At first his intentions with this marriage were unclear, but the woman, known to history as La Malinche, knew several languages, one of them being Mayan, the same language as the shipwrecked Franciscan priest. The other was Nahuatl, a language used by groups to the north.

As they traveled that direction, word filtered to them of a powerful nation-state ruled by a leader named Moctezuma. Unbeknownst to the Spaniards, word had also filtered to Moctezuma that new, strangely dressed men, had come from the east and were traveling in their lands. Today we know the people of this kingdom as Aztecs. They called themselves Culhua-Mexica. This is where the modern name of Mexico originates.

Cortes moved on up the coast and founded the present day city of Veracruz before turning inland. The foresight of Cortes began to shine. He needed to 4:00 speak to Moctezuma through emissaries. So he would speak to the priest in Spanish, then the priest would speak to La Malinche in Mayan, who would then translate it into Nahuatl to the Aztecs. Through this chain of communication, he asked to be received by Moctezuma in the capital of Tenochtitlan, almost 200 miles inland. Moctezuma, convinced the invaders weren't peaceful, refused. Cortes, not to be deterred, moved inland. As he traveled he met different groups of people, some who were allied with the Aztecs and some who weren't. He persuaded those hostile to the Aztecs to ally with the Spaniards and march to Tenochtitlan, along the way fighting and winning a three-day battle. When he and his 1000-strong native army entered the city of Cholula, he massacred the nobility and burned the city. Cortes was now a force to be reckoned with by Moctezuma.

Moctezuma was no rookie when it came to warfare. He had spent years of his life prior to the arrival of the Spanish conquering lands in central Mexico, once raising an army of 400,000 men and subjugating several areas in the region. By 1519, the leader of the Aztecs had fought in 73 battles and won 43 of them. His kingdom was over 80,000 square miles and ruled five to six million people.

5:00

On November 8, 1519, Cortes' army crested a hill and looked down on the grand sight of the valley of Mexico. Before him, at an elevation of approximately 7,300 feet, was a valley ringed by mountains on all sides, with a snow-capped volcano reaching to heights of over 17,000 feet to the east. In the valley floor was a large lake, Lake Texcoco. Within the lake were several islands. On one of the islands was a vast city the Aztecs called Tenochtitlan. To reach the island, the inhabitants had constructed great bridges, or causeways, to reach the city. The Spaniards looked in amazement. Upon their arrival, they estimated the population of Tenochtitlan to be 200,000 people, rivaling many of the largest cities in contemporary Europe.

At this point, Moctezuma realized the invaders would not be dissuaded. Outright warfare wouldn't stop them. So, he changed tack and welcomed them with open arms into the city. Unfortunately, if his intentions were to appease them until they left, his next action would never make them want to leave. He lavished them with gold gifts, further whipping their imaginations into a frenzy.

6:00

Conditions seemed to fester. The Aztecs weren't happy with their invaders. When news arrived from the coast that Spaniards had been killed by Aztecs in that area, Cortes decided to take Moctezuma prisoner in his own palace. He forced the ruler to decree actions to his subjects in an attempt to control the masses. But, unfortunately, events turned violent when one of Cortes' subordinates named Pedro de Alvarado, ordered the massacre of several elites during a ceremony at the Templo Mayor, the main temple in Tenochtitlan. This, coupled with the previous arrest of Moctezuma, forced the Aztecs into full scale warfare.

In the melee, Moctezuma was killed. Accounts differ on who killed him though, with some saying he was stoned to death by the Aztecs for allowing the Spaniards to commit such atrocities, while others say he was strangled or stabbed by the Spanish for failing to control the native population.

7:00

Cortes realized he had overplayed his hand. He asked the remaining Aztec leaders for a cease-fire of one week, saying he would return all gifts given to any Spaniard during

that time. In return he asked for safe passage out of the city. Of course, the conquistador had no intention of honoring his end of the deal. It was a stalling tactic, allowing the men time to prepare to leave the city.

Much of the bridge leading to the city had been destroyed by the Aztecs. So the Spanish devised a temporary, portable, bridge to use as they departed. Cortes also told all men to carry as much gold with them as possible. They departed into the night on July 1, 1520, quietly moving towards the mainland. It wasn't long before their movements were noticed by the elite guard of Aztecs, the Eagle Warriors. What ensued was a fierce, running battle that would last most of the night. In the end, Cortes would be wounded, but not fatally. He would claim 154 Spaniards were killed

8:00 once the retreat concluded. By morning, all Spaniards were forced from the city, a huge loss to Cortes. The night is known to history at La Noche Triste, or the Night of Sorrows.

But if Hernan Cortes was anything, he was indefatigable. In no time he was planning his return. Reinforcements from Cuba began arriving. With these he moved back towards Tenochtitlan, defeating many of the Aztec allies. Then he laid siege to the city by cutting off supplies.

The lack of bridges leading to the island-city was still a problem though. The amount of losses during La Noche Triste showed that portable bridges weren't the most practical way to cross the water. When they returned to the lake shores, he decided to construct brigantines, a type of two-masted ship, to assault the city. The Aztecs proved no match for the siege and ships. They were soon overrun. By the end of the battle, the city was destroyed.

It would be another full year when, on August 13, 1521, the last Aztec ruler Cuauhtemoc was captured. Tenochtitlan and all of the Aztec empire was now under full Spanish control, paving the way for the modern country we know as

9:00 Mexico.

Today almost all of the lake is gone, drained by the Spanish. In its place is the metropolitan behemoth of Mexico City with over 22,000,000 people within the metro area.

2022 Middle School Virtual Challenge Meet #3
Listening Contest - Grades 7th/8th - Answer Key

Correct Answer=3pts, Incorrect Answer=(-2) pts, No penalty for leaving blank

"The Fall of the Aztecs"

1. ___B___
2. ___D___
3. ___A___
4. ___A___
5. ___C__
6. ___B___
7. ___C___
8. ___D___
9. ___B___
10. ___A___
11. ___B___
12. ___B___
13. ___D___

14. ___C___
15. ___A___
16. ___C___
17. ___B___
18. ___D___
19. ___T___
20. ___T___
21. ___F___
22. ___T___
23. ___T___
24. ___F___
25. ___T___

THE VIRTUAL MEET EXPERIENCE

PRESENTS

2022-2023

Middle School Virtual Challenge

Meet #3
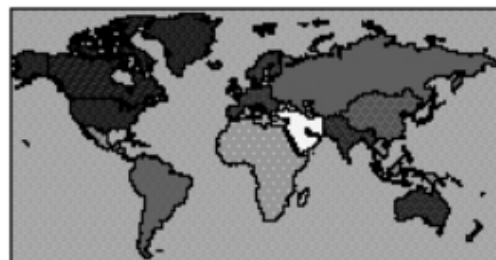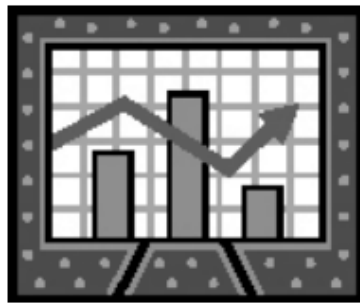
Maps, Graphs, Charts

Grades 5th/6th

DO NOT OPEN TEST
UNTIL TOLD TO DO SO

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North America Map

1. Which of the following lakes in British Columbia is located the furthest north?
   A. Quesnel Lake
   B. Williston Lake
   C. Ootsa Lake
   D. Upper Arrow Lake

2. Approximately how many inches of rainfall occur in Ontario?
   A. 0 to 10 inches
   B. 20 to 40 inches
   C. 40 to 80 inches
   D. Over 80 inches

3. What is the capital city of El Salvador?
   A. San Juan
   B. Panama City
   C. San Salvador
   D. Santo Domingo

4. Which climate type is predominantly found in the Caribbean islands?
   A. Desert
   B. Tundra
   C. Steppe
   D. Savanna

5. Which Canadian territory has copper, uranium, zinc, and iron?
   A. British Columbia
   B. Alberta
   C. Nova Scotia
   D. Nunavut

6. Which of the following countries has Danish as the official language?
   A. Haiti
   B. Greenland
   C. Sint Maarten
   D. Barbados

7. What is the approximate distance between Fort Frances and Thunder Bay in Canada?
   A. 300 kilometers
   B. 320 kilometers
   C. 340 kilometers
   D. 360 kilometers

8. Which of the following cities is located in southwestern Tennessee?
   A. Chattanooga
   B. Nashville
   C. Knoxville
   D. Memphis

9. Which of the following countries has the lowest life expectancy for males?
   A. Bahamas
   B. Cuba
   C. United States
   D. Puerto Rico

10. Kingston is the capital city of which country?
    A. Jamaica
    B. Puerto Rico
    C. Cuba
    D. Barbados

11. Which of the following cities in Quebec has the largest population?
    A. Eastmain
    B. Schefferville
    C. Maniwaki
    D. Sherbrooke

12. In the south central United States, what is the approximate distance from Austin to Oklahoma City?
    A. 340 miles
    B. 350 miles
    C. 370 miles
    D. 390 miles

13. Which of the following Central American cities has the smallest population?
    A. Colon
    B. Havana
    C. Merida
    D. Oaxaca

14. Which of the following lakes is located between Lake Ontario and Lake Huron?
    A. Lake St. Clair
    B. Lake Simcoe
    C. Lake Nipissing
    D. Lake Temagami

15. Which of the following cities is located in South Dakota?
    A. Vermillion
    B. Worthington
    C. Thief River Falls
    D. Rugby

Frank's Grocery Store

Hours: 8 A.M. to 10 P.M.   Open every day

Located at the corner of
Smith Street and Hwy 101.

Cakes

Bakery

1

Donuts

Cookies

Breads

2

Breads / Pasta

Water / Soda

3

Beverages / Coffee

Breakfast

4

Chips / Snacks

Soup

5

Baking / Spices

Household / Cleaning

6

Health / Baby

Frozen Desserts

7

Frozen Pizzas

Frozen Breakfast

8

Frozen Meals

16

Sample Stations

Deli

9

Seasonal

Deli

Sushi

10

Sushi

Fruits

Fruits

11

12

Vegetables

Pre-made Meals

13

Pre-made Meals

Vegan Options

14

To Go Options

Flowers
Balloons

15

Customer
Service

Entrance

Self-checkout

Checkout

Express Checkout
10 items or less

Frank's Grocery Store

16. The frozen section is on which aisles?
    A. 1 and 2
    B. 4 and 5
    C. 7 and 8
    D. 9 and 10

17. What food options are located closest to the express checkout?
    A. To Go
    B. Sushi
    C. Donuts
    D. Chips and snacks

18. If a customer needed balloons and flowers while also getting a cake, what aisles would they visit?
    A. 1 and 15
    B. 9 and 3
    C. 5 and 11
    D. 14 and 6

19. Which aisle has soups and spices?
    A. 4
    B. 5
    C. 6
    D. 7

20. What aisle has household items and cleaning items?
    A. 5
    B. 6
    C. 7
    D. 8

21. Which of the following items are located closest to the entrance?
    A. Cakes
    B. Health items
    C. Sushi
    D. Vegetables

22. What aisle number has pre-made meals?
    A. 9
    B. 11
    C. 12
    D. 13

23. Which aisle are chips located on?
    A. 2
    B. 3
    C. 4
    D. 5

24. Which aisle are the sample stations located on?
    A. 10
    B. 12
    C. 14
    D. 16

25. Which aisle are drinks located on?
    A. 1
    B. 2
    C. 3
    D. 4

TRUE / FALSE

26. The deli is located near the sushi and seasonal items.

27. The store is open 24 hours a day.

28. The store is located at the corner of Hwy 101 and Jones Street.

29. The bread and pasta aisle is located near the Bakery.

30. The frozen section is located near the deli.

University Texas Degrees

- Other 11%
- Architecture 8%
- Business 15%
- Pre-Med 6%
- Education 7%
- Engineering 10%
- Fine Arts 6%
- Geosciences 5%
- Liberal Arts 10%
- Natural Sciences 12%
- Nursing 10%

Texas A&M University Degrees

- Other 14%
- Architecture 6%
- Business 13%
- Pre-Med 10%
- Education 9%
- Engineering 12%
- Fine Arts 5%
- Geosciences 5%
- Liberal Arts 6%
- Natural Sciences 10%
- Nursing 10%
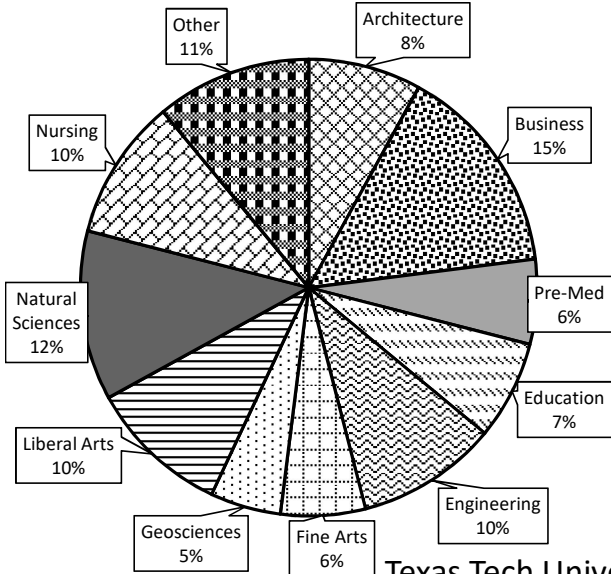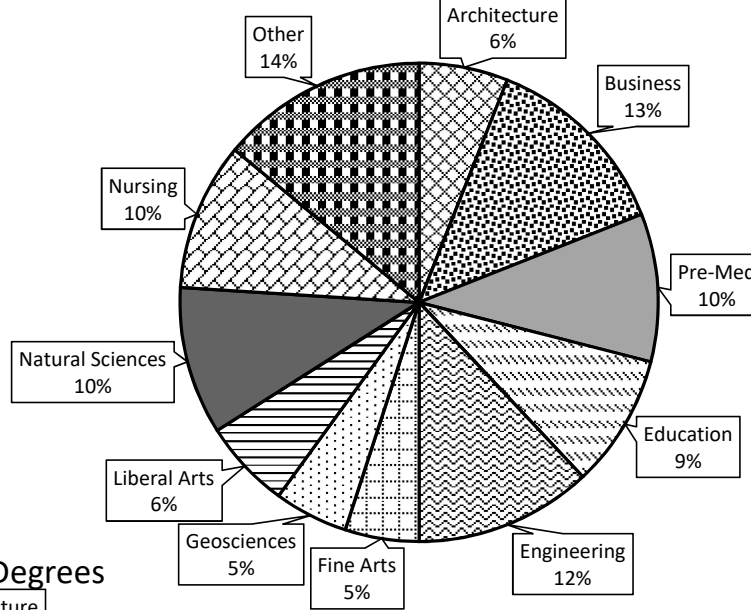
All colleges located in Texas.
Population adjusted for percentages.
Based on May 2017 graduates.

University of Houston Degrees

- Other 13%
- Architecture 10%
- Business 11%
- Pre-Med 8%
- Education 10%
- Engineering 9%
- Fine Arts 4%
- Geosciences 4%
- Liberal Arts 8%
- Natural Sciences 11%
- Nursing 12%

Texas Tech University Degrees

- Other 9%
- Architecture 7%
- Business 14%
- Pre-Med 10%
- Education 14%
- Engineering 11%
- Fine Arts 7%
- Geosciences 6%
- Liberal Arts 9%
- Natural Sciences 8%
- Nursing 5%
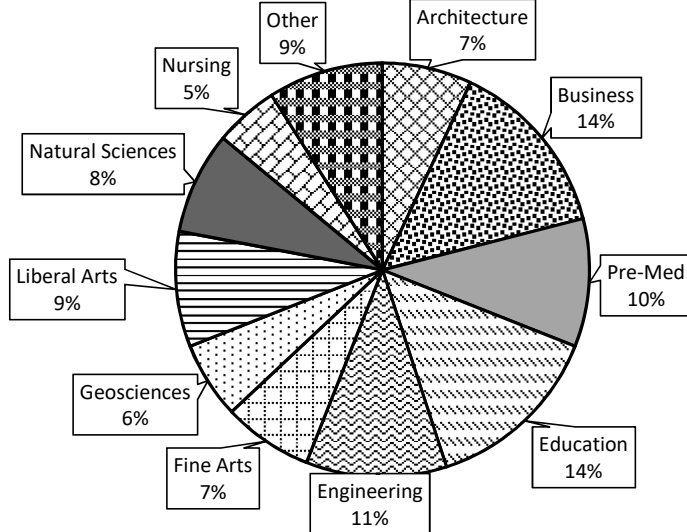
Bachelor of Arts degrees: liberal arts, education, business, and fine arts.

Bachelor of Science degrees: pre-med, architecture, natural sciences, nursing, geosciences, and engineering.

Percent of Degrees

31. Which university had the highest percentage of Liberal Arts graduates?
  - **A.** Texas A&M University
  - **B.** University of Houston
  - **C.** University of Texas
  - **D.** Texas Tech University

32. Which university had the lowest percentage of Nursing graduates?
  - **A.** Texas A&M University
  - **B.** University of Houston
  - **C.** University of Texas
  - **D.** Texas Tech University

33. Which university had the lowest percentage of Business graduates?
  - **A.** Texas A&M University
  - **B.** University of Houston
  - **C.** University of Texas
  - **D.** Texas Tech University

34. Which two degrees had the same percentage of graduates at Texas Tech University?
  - **A.** Architecture and Engineering
  - **B.** Fine arts and Geosciences
  - **C.** Business and Education
  - **D.** Liberal arts and Natural sciences

35. Which university had the highest percentage of Architecture graduates?
  - **A.** Texas A&M University
  - **B.** University of Houston
  - **C.** University of Texas
  - **D.** Texas Tech University

36. Which two colleges awarded the same percentage of Fine Art degrees?
  - **A.** Texas A&M University and University of Houston
  - **B.** University of Texas and Texas Tech University
  - **C.** Texas A&M University and Texas Tech University
  - **D.** None

37. The percentage of Geosciences graduates was the smallest at which college?
  - **A.** Texas A&M University
  - **B.** University of Houston
  - **C.** University of Texas
  - **D.** Texas Tech University

38. Which college had the largest total percentage of Bachelor of Arts degrees?
  - **A.** Texas A&M University
  - **B.** University of Houston
  - **C.** University of Texas
  - **D.** Texas Tech University

39. Which degree had the most graduates at Texas A&M University?
  - **A.** Business
  - **B.** Pre-med
  - **C.** Education
  - **D.** Engineering

40. Architecture and Engineering combined had more graduates than Pre-med and Nursing combined at two which universities?
  - **A.** Texas A&M University and University of Houston
  - **B.** University of Houston and University of Texas
  - **C.** University of Texas and Texas A&M University
  - **D.** Texas Tech University and University of Texas

TRUE / FALSE

41. University of Houston and Texas A&M University had the same combined percentage of Geosciences and Education graduates.

42. The University of Texas had the highest percentage of graduates with degrees in the Other category.

43. Education is a Bachelor of Arts degree.

44. University of Houston had a higher percentage of Business graduates than Texas Tech.

45. The percentages of graduates are based on May 2018 graduates.

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South America Maps

46. Which country's capital city is Lima?
    - A. Peru
    - B. Colombia
    - C. Venezuela
    - D. Ecuador

47. Which country's capital city is located nearest to the Tropic of Cancer?
    - A. Ecuador
    - B. Paraguay
    - C. Bolivia
    - D. Brazil

48. Which of the following cities has the largest population?
    - A. Goiania
    - B. Palmas
    - C. San Justo
    - D. Cusco

49. What is the approximate distance between Cusco and Iquitos?
    - A. 600 miles
    - B. 675 miles
    - C. 725 miles
    - D. 750 miles

50. Which country's climate is predominately savanna?
    - A. Peru
    - B. Suriname
    - C. Venezuela
    - D. Colombia

51. Which country has no natural resources or metals shown?
    - A. Argentina
    - B. Suriname
    - C. Uruguay
    - D. Chile

52. Which country has Portuguese as its official language?
    - A. Colombia
    - B. Chile
    - C. Bolivia
    - D. Brazil

53. Which river connects Santarem and Itacoatiara?
    - A. Amazon River
    - B. Parana River
    - C. Araguaia River
    - D. Sao Francisco River

54. Which country has a very dry climate with low levels of rainfall in its northern region but high levels of rainfall in its southern region?
    - A. Chile
    - B. Colombia
    - C. Brazil
    - D. Argentina

55. What is the approximate distance between the capital city of Chile and the city of Punta Arenas?
    - A. 1250 miles
    - B. 1350 miles
    - C. 1450 miles
    - D. 1500 miles

56. Which of the following waterways is located nearest to Cape Horn?
    - A. Beagle Channel
    - B. Strait of Magellan
    - C. Corcovado Gulf
    - D. Rio de la Plata

57. Which South American country has the highest life expectancy for men?
    - A. Bolivia
    - B. Chile
    - C. Suriname
    - D. Guyana

58. Which of the following cities has the smallest population?
    - A. Bucaramanga
    - B. Cali
    - C. Guayaquil
    - D. Pereira

59. Which of the following crops are grown at the tierra fria altitude?
    - A. Cacao
    - B. Barley
    - C. Coffee
    - D. Corn

60. Which of the following cities is located inside Argentina?
    - A. Talca
    - B. Tarija
    - C. San Juan
    - D. Santa Maria

5K Times in 2021

minutes

45 ─
40 ─
35 ─
30 ─
25 ─
20 ─
15 ─
10 ─
5 ─
0 ─

Color   Cupid 5K   Bubble 5K   Boo 5K   Turkey Trot 5K   Jingle Bell 5K

⊞ Trevor   ⊞ Mandy   ▧ Jeremy   ⫴ Alejandra   ⋮ Anne   ⧄ Michael   ■ Paula   ⊞ Todd
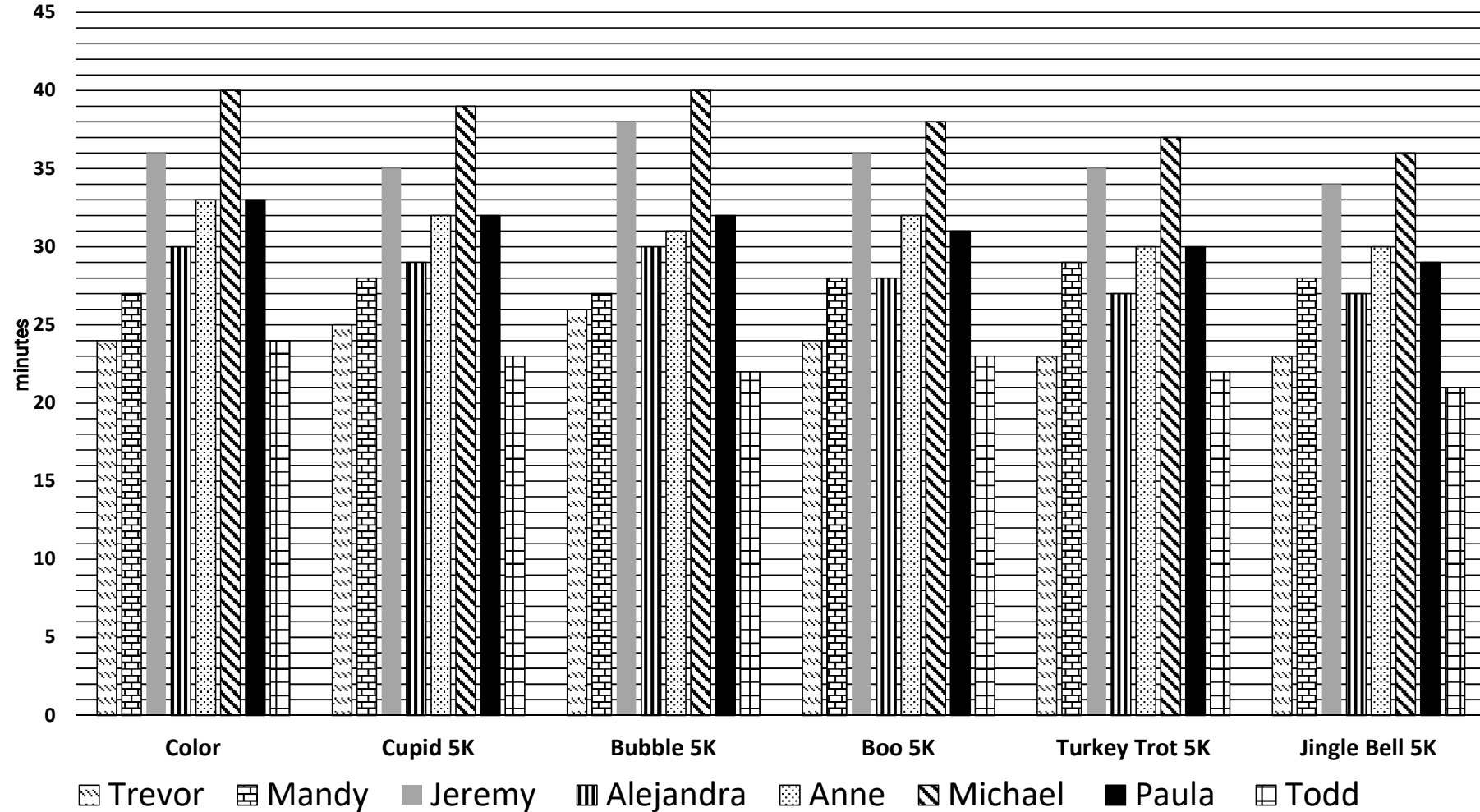
A 5K is a race over a 3.1 mile course.

Races were in January, February, March, October, November, and December, respectively.

5K Times

61. Which race was the first after summertime?
- **A.** Cupid
- **B.** Bubble
- **C.** Boo
- **D.** Turkey Trot

62. Who ran the fastest at the Jingle Bell 5K?
- **A.** Trevor
- **B.** Alejandra
- **C.** Paula
- **D.** Todd

63. On average, which race had the fastest times?
- **A.** Color
- **B.** Boo
- **C.** Turkey Trot
- **D.** Jingle Bell

64. Which of the following races had the fastest time for Mandy?
- **A.** Cupid
- **B.** Bubble
- **C.** Boo
- **D.** Jingle Bell

65. Who had the slowest time at the Bubble Run?
- **A.** Jeremy
- **B.** Anne
- **C.** Michael
- **D.** Paula

66. Which of the following ran the Cupid race faster than Alejandra?
- **A.** Jeremy
- **B.** Mandy
- **C.** Anne
- **D.** Paula

67. In which race did Anne and Paula have the same time?
- **A.** Color
- **B.** Bubble
- **C.** Boo
- **D.** Jingle Bell

68. Whose time got slower from the Color to the Cupid run?
- **A.** Trevor
- **B.** Jeremy
- **C.** Anne
- **D.** Michael

69. In what year were these races run?
- **A.** 2019
- **B.** 2020
- **C.** 2021
- **D.** 2022

70. In which race did Jeremy run the slowest?
- **A.** Color
- **B.** Bubble
- **C.** Boo
- **D.** Jingle Bell

TRUE / FALSE

71. There are six races and eight different runners included on the graph.

72. Anne was slower than Paula at the Bubble Run.

73. Todd was faster than Trevor at the Boo 5K.

74. A 5K race is 3.2 miles.

75. Alejandra had a slower time than Mandy at each race.

Contestant Name: _____

2022-2023 Middle School Virtual Challenge Meet #3 - Maps, Graphs, & Charts
Grade: 5 6 7 8
Answer Sheet
Circle the correct answer.

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

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

51. A B C D
52. A B C D
53. A B C D
54. A B C D
55. A B C D
56. A B C D
57. A B C D
58. A B C D
59. A B C D
60. A B C D
61. A B C D
62. A B C D
63. A B C D
64. A B C D
65. A B C D
66. A B C D
67. A B C D
68. A B C D
69. A B C D
70. A B C D
71. T F
72. T F
73. T F
74. T F
75. T F

2022-2023 Middle School Virtual Challenge Meet #3 - Maps, Graphs, & Charts
Grades 5th/6th - Answer Key
CORRECT ANSWER = 3 PTS, INCORRECT ANSWER = (-2) PTS, NO PENALTY FOR LEAVING BLANK

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

THE ▼IRTUAL MEET EXPERIENCE

PRESENTS

2022-2023

Middle School Virtual Challenge

Meet #3
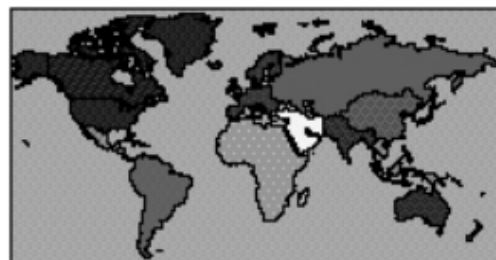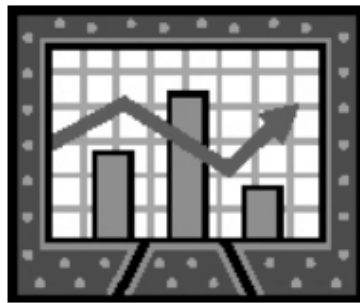
Maps, Graphs, Charts

Grades 7th/8th

DO NOT OPEN TEST
UNTIL TOLD TO DO SO

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Asia Map

1. Dhaka is the capital city of which country?
   A. Brunei
   B. Thailand
   C. Bangladesh
   D. Vietnam

2. Which country has tropical rain forest, savanna, steppe, desert, and mediterranean climates?
   A. India
   B. China
   C. Indonesia
   D. Thailand

3. Which of the following countries has iron, lead, copper, gold, and manganese?
   A. Iran
   B. Turkey
   C. Uzbekistan
   D. Philippines

4. Which of the following is the official language of Yemen and Oman?
   A. English
   B. Arabic
   C. Mandarin
   D. Korean

5. What is the approximate distance between Hong Kong and Beijing?
   A. 1100 miles
   B. 1200 miles
   C. 1250 miles
   D. 1350 miles

6. What is the capital city of Jordan?
   A. Jerusalem
   B. Doha
   C. Riyadh
   D. Amman

7. Which of the following cities has the largest population?
   A. Phnom Penh
   B. Guangzhou
   C. Long Xuyen
   D. Myitkyina

8. What is the approximate distance between the capital city of Afghanistan and the capital city of Uzbekistan?
   A. 450 miles
   B. 475 miles
   C. 500 miles
   D. 525 miles

9. Hanoi is located along which river?
   A. Red River
   B. Mekong River
   C. Hongshui River
   D. Brahmaputra River

10. Which of the following countries has the shortest life expectancy for males?
    A. Iran
    B. Cyprus
    C. Turkmenistan
    D. Singapore

11. Which of the following cities has the smallest population?
    A. Kuala Lumpur
    B. Fakfak
    C. Mddan
    D. Jakarta

12. Which of the following lakes is located near the Sayan Mountains?
    A. Lake Balkhash
    B. Qinghai Lake
    C. Uvs Lake
    D. Lake Baikal

13. Which of the following countries has the least amount of precipitation?
    A. Turkey
    B. Syria
    C. Jordan
    D. Pakistan

14. Which river runs near Hyderabad?
    A. Indus River
    B. Tarim River
    C. Ganges River
    D. Helmand River

15. Which of the following countries' land is predominantly used for nomadic herding?
    A. India
    B. Turkmenistan
    C. Afghanistan
    D. Russia

Cactus Park and Recreation

Thick black line – bicycle track, 10 miles
Thin gray line – running track, 3.1 miles
Dashed line – Llama River
Straight lines around the park are streets

- The park and track are open every day of the week from dawn to dusk.
- Park is closed from 11 P.M. to 5 A.M.
- Each bridge at the crossings of the river and track has benches and water fountains.
- Basketball courts located at each circle. Tennis courts at each square.
- Locally run kiosks located at each rectangle. Stores do not keep cash on hand.
- Rest pavilion, vending machines, and restrooms located at each triangle.
- Bird watching is suggested at the location of trees on the map.
- Trash cans are located every half mile on both tracks.
- Private events at running track upon availability, call 555-555-5555 to reserve.
- Use the park at your own risk. For all emergencies, call 911.

Aiden Road

Bicycle Track

Parking

Parker Street

Marie Street

Parking

Dog Park

Llama River

Running track

Parking

Martin Road
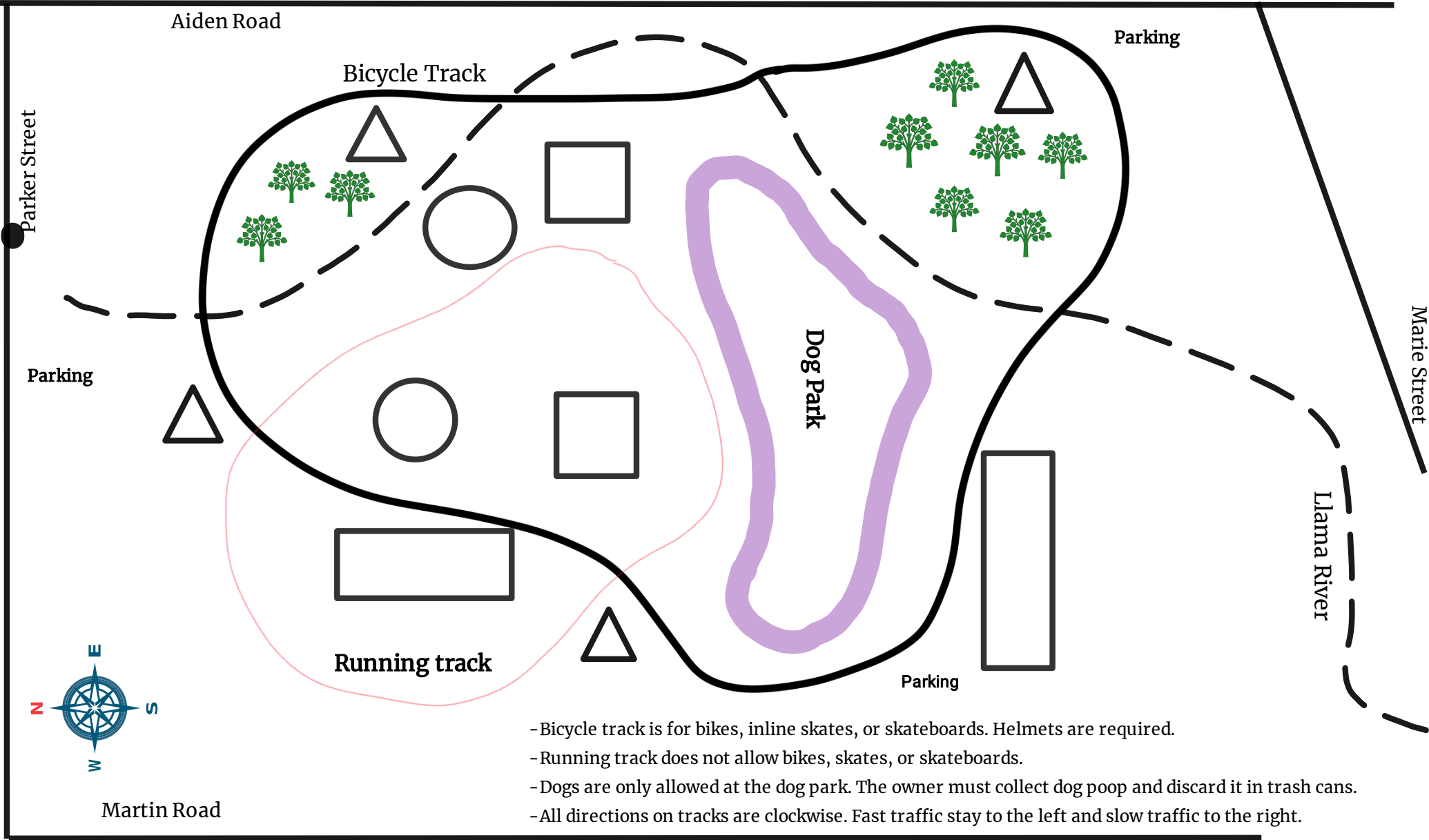
– Bicycle track is for bikes, inline skates, or skateboards. Helmets are required.

– Running track does not allow bikes, skates, or skateboards.

– Dogs are only allowed at the dog park. The owner must collect dog poop and discard it in trash cans.

– All directions on tracks are clockwise. Fast traffic stay to the left and slow traffic to the right.

Cactus Park and Recreation

16. How often are trash cans located on the pathways?
    A. Every 1/2 mile
    B. Every 1 mile
    C. Every 2 miles
    D. Only at a pavilion

17. Where would you find people roller skating at the park?
    A. Bicycle track
    B. Running track
    C. Dog Park
    D. Bicycle and Running track

18. What street has the closest parking lot to the running track?
    A. Martin Road
    B. Aiden Road
    C. Parker Street
    D. Marie Street

19. What shape represents the basketball courts?
    A. triangle
    B. circle
    C. square
    D. rectangle

20. How many bridges cross the Llama River on the bicycle track?
    A. 3
    B. 4
    C. 5
    D. 6

21. What street has the closest parking lot to the dog park?
    A. Martin Road
    B. Aiden Road
    C. Parker Street
    D. Marie Street

22. What is located at each bridge crossing?
    A. Restrooms
    B. Pavilions
    C. Parking lots
    D. Benches and water fountains

23. What street has the closest parking lot to a bird watching area?
    A. Martin Road
    B. Aiden Road
    C. Parker Street
    D. Marie Street

24. Which of the following is true?
    A. Bicycle track is 3.1 miles
    B. Faster traffic on pathways should stay to the left
    C. Tracks run clockwise
    D. Helmets are not required for skateboarding

25. What shape represents where a person would find restrooms?
    A. triangle
    B. circle
    C. square
    D. rectangle

TRUE / FALSE

26. Both kiosk areas are located on the eastern side of the map.

27. Only one bird watching site has a pavilion.

28. The park is open to the public 5 A.M. to 11 P.M.

29. Private events can only be at the running track.

30. The bicycle track is exactly two times the length of the running track.

Average time per day spent on phone apps

Average based on August 2022

Social media apps include Instagram, Facebook, and TikTok.

minutes

	Amanda	Haley	Mark	Scott	Aaron
Messages	67	36	31	49	46
Mail	21	29	14	18	26
Instagram	36	18	5	16	48
Facebook	9	5	34	27	26
TikTok	19	67	51	24	19
Safari	16	37	16	31	29
Phone	38	91	57	14	18
Music	13	19	84	27	65
Lock Screen	19	27	24	39	41

Amanda Haley Mark Scott Aaron
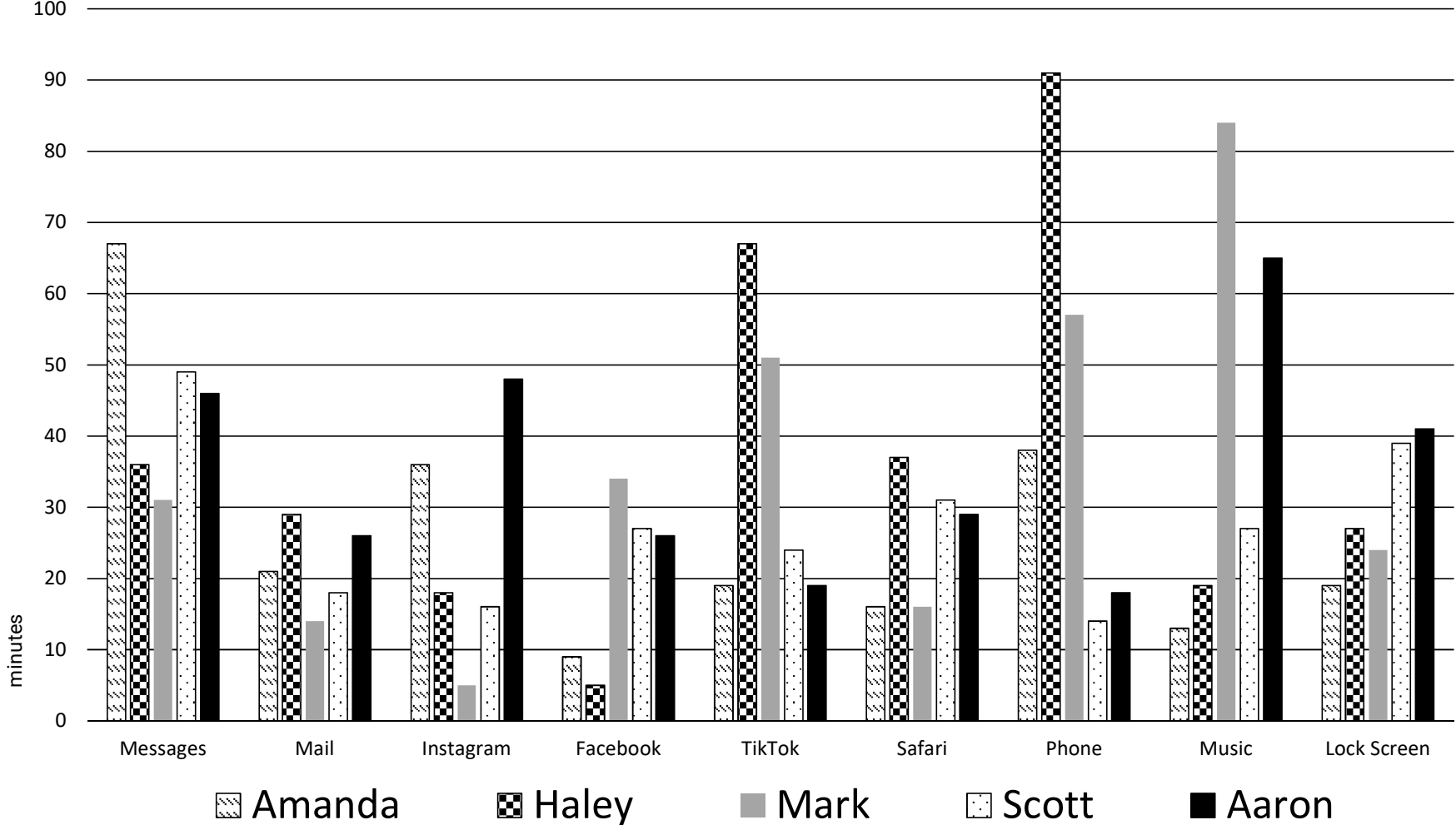
Average time on phone apps

31. Which person uses social media apps the least?
    A. Haley
    B. Mark
    C. Scott
    D. Aaron

32. Which person uses their music app more than the messages app?
    A. Amanda
    B. Haley
    C. Scott
    D. Aaron

33. Which app does Haley use most?
    A. Tiktok
    B. Safari
    C. Phone
    D. Lock screen

34. Which two apps are used most by Amanda?
    A. Messages and Phone
    B. Mail and Safari
    C. Instagram and Phone
    D. Messages and Instagram

35. Amanda and Mark use which app the same amount?
    A. Mail
    B. Facebook
    C. Safari
    D. Music

36. Which app does Scott use the least?
    A. Mail
    B. Instagram
    C. Safari
    D. Phone

37. Which person uses apps for the most amount of total time?
    A. Amanda
    B. Haley
    C. Scott
    D. Mark

38. Which app has the lowest amount of use on average ?
    A. Messages
    B. Facebook
    C. Instagram
    D. Safari

39. Which person uses mail and messages combined the most?
    A. Haley
    B. Amanda
    C. Scott
    D. Aaron

40. Which person has their phone locked most?
    A. Haley
    B. Mark
    C. Scott
    D. Aaron

TRUE / FALSE

41. There is an average time spent on nine apps from August 2021 for five people.

42. Aaron uses messages more than Haley.

43. Mark uses mail more than messages.

44. Instagram is the most used social media app by Aaron.

45. Scott uses Safari more than any of the social media apps.

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Australia and Oceania Maps

46. Which of the following islands is located along the Tropic of Capricorn?
    A. Necker Island
    B. Tubuai Island
    C. Pitcairn Island
    D. Baker Island

47. Which atoll is located within the Federated States of Micronesia?
    A. Ujelang Atoll
    B. Ontong Java Atoll
    C. Abemama Atoll
    D. Ngatik Atoll

48. Which of the following countries has the capital city of Tarawa?
    A. Kiribati
    B. Tonga
    C. New Zealand
    D. Palau

49. What climate type is found in eastern Australia?
    A. Desert
    B. Mediterranean
    C. Humid subtropical
    D. Savanna

50. Which of the following metals is found on the island of New Caledonia?
    A. Nickel
    B. Copper
    C. Gold
    D. Lead

51. What is the capital city of the Northern Territory in Australia?
    A. Perth
    B. Darwin
    C. Adelaide
    D. Brisbane

52. Which of the following cities has the largest population?
    A. Jayapura
    B. Merauke
    C. Palu
    D. Banjarmasin

53. What is the approximate distance between Melekeok and Palikir?
    A. 1500 miles
    B. 1550 miles
    C. 1625 miles
    D. 1700 miles

54. ____ is the predominant method of land use for Queensland.
    A. Commercial farming
    B. Subsistence farming
    C. Urban
    D. Ranching or herding

55. What is the approximate distance between the capital cities of Fiji and Tuvalu?
    A. 600 miles
    B. 700 miles
    C. 800 miles
    D. 900 miles

56. The Barkly Tableland is located in which Australian territory?
    A. Western Australia
    B. Northern Territory
    C. South Australia
    D. Victoria

57. Which of the following countries has the shortest life expectancy for females?
    A. Nauru
    B. New Zealand
    C. Australia
    D. French Polynesia

58. Which of the following cities has the smallest population?
    A. Hobart
    B. Wollongong
    C. Fremantle
    D. Mackay

59. English is NOT an official language of ___.
    A. Solomon Island
    B. New Zealand
    C. Micronesia
    D. Papua New Guinea

60. Which island is located around the Solomon Sea?
    A. New Caledonia
    B. Tasmania
    C. Espirtu Santo
    D. New Britain

AVERAGE ITEMS SOLD BY EACH EMPLOYEE PER MONTH

Percent of total sales

	Steve	Bruce	Natasha	Tony	Carol	Donald	Clint	Wanda
▥ Misc/Other	10.4	10.1	10.8	11.4	10.7	10.6	10.7	10.1
▤ Televisions	2.6	2.8	3.4	2.6	2.9	3.1	3.4	3.2
▨ Video Games	7.8	9.4	9	8.7	9.1	8.4	7.9	8.2
▥ Appliances	3.2	3.6	2.8	3.1	2.9	2.9	3.6	3.4
■ Smartphones	2.1	2.3	1.8	2.6	2.9	2.9	3	2.4
▦ Stereos	2.4	4.4	2.6	2.8	2.9	4.1	4.2	3.7
▧ Laptops	4.3	2.5	3.5	4.1	2.8	3.8	4.4	4.3

▧ Laptops   ▦ Stereos   ■ Smartphones   ▥ Appliances   ▨ Video Games   ▤ Televisions   ▥ Misc/Other
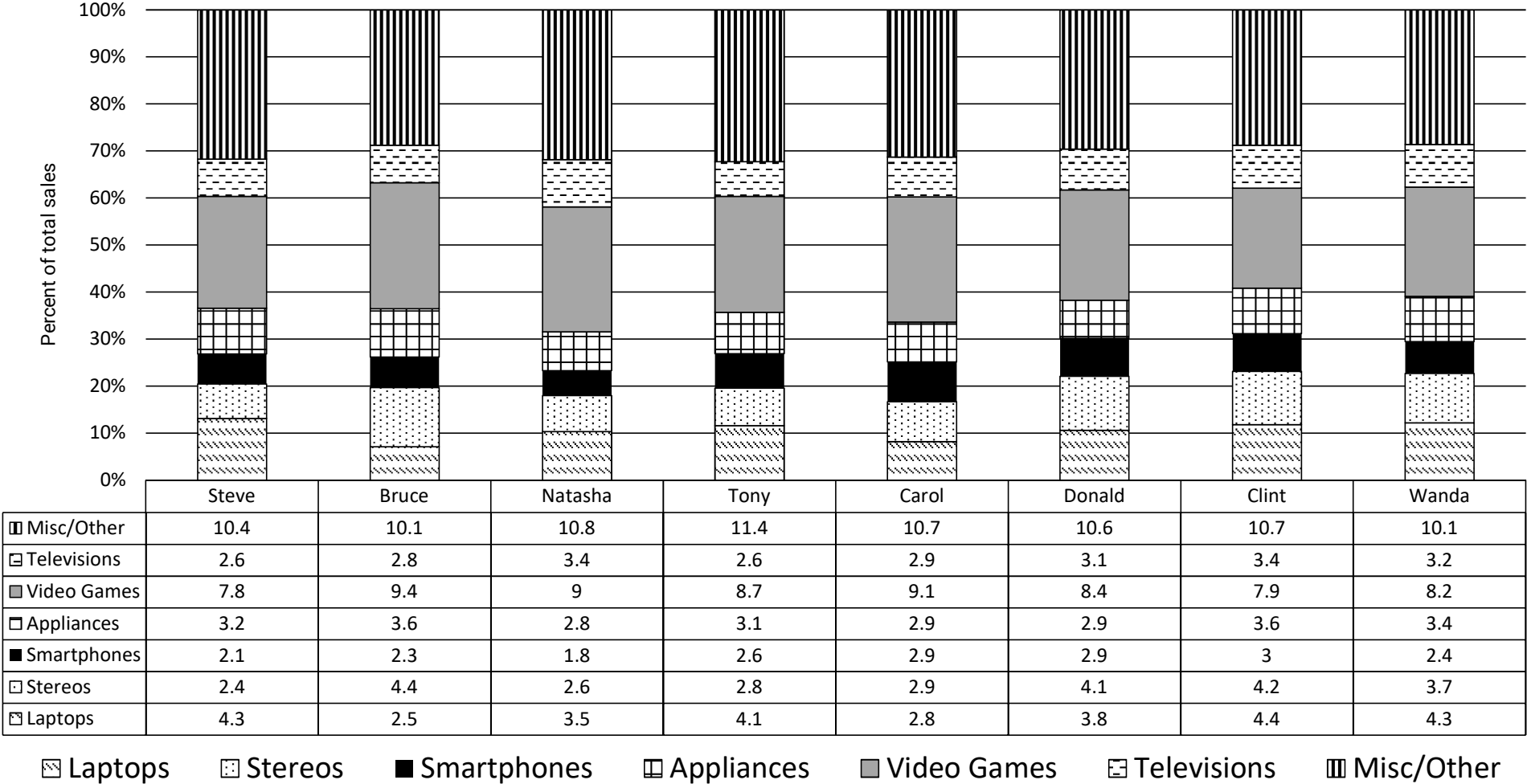
Averages are based
on all sales in 2018.

AVERAGE ITEMS SOLD BY EACH EMPLOYEE PER MONTH

61. Bruce sold more televisions than which other employee?

    A. Steve

    B. Natasha

    C. Carol

    D. Wanda

62. Tony sold the most of which category?

    A. Appliances

    B. Video games

    C. Smartphones

    D. Stereos

63. Wanda sold the same amount of laptops as ___.

    A. Steve

    B. Tony

    C. Donald

    D. Clint

64. Which employee sold the most smartphones and stereos combined?

    A. Bruce

    B. Carol

    C. Donald

    D. Clint

65. Which employee sold the least amount of laptops?

    A. Bruce

    B. Natasha

    C. Tony

    D. Carol

66. Which item was sold the most on average by all employees shown?

    A. Misc/Other

    B. Video games

    C. Appliances

    D. Laptops

67. Clint had the highest average sales of any employee for which of the following categories?

    A. Stereos

    B. Misc/Other

    C. Smartphones

    D. Video Games

68. Which of the following employees sold the most televisions?

    A. Carol

    B. Donald

    C. Natasha

    D. Wanda

69. Which two employees sold the most video games?

    A. Steve and Tony

    B. Bruce and Carol

    C. Natasha and Bruce

    D. Donald and Carol

70. Bruce sold more ___ than Carol.

    A. Televisions

    B. Appliances

    C. Smartphones

    D. Laptops

TRUE / FALSE

71. Video games were sold more often than appliances.

72. Donald sold more smartphones than Wanda.

73. Tony sold more televisions than Bruce.

74. There are seven different employees on the chart.

75. Steve and Clint sold the least video games.

2022-2023 Middle School Virtual Challenge Meet #3 - Maps, Graphs, & Charts
Grade: 5 6 7 8
Answer Sheet
Circle the correct answer.

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

2022-2023 Middle School Virtual Challenge Meet #3 - Maps, Graphs, & Charts
Grades 7th/8th - Answer Key
CORRECT ANSWER = 3 PTS, INCORRECT ANSWER = (-2) PTS, NO PENALTY FOR LEAVING BLANK

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

THE VIRTUAL MEET EXPERIENCE

PRESENTS
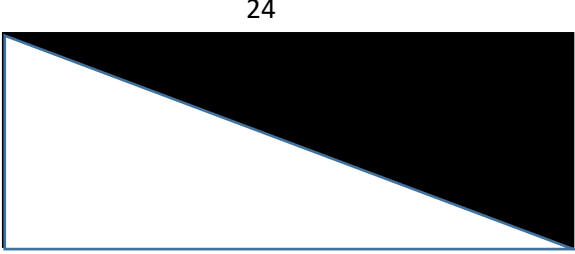
2022-2023
MIDDLE SCHOOL
VIRTUAL CHALLENGE MEET #3
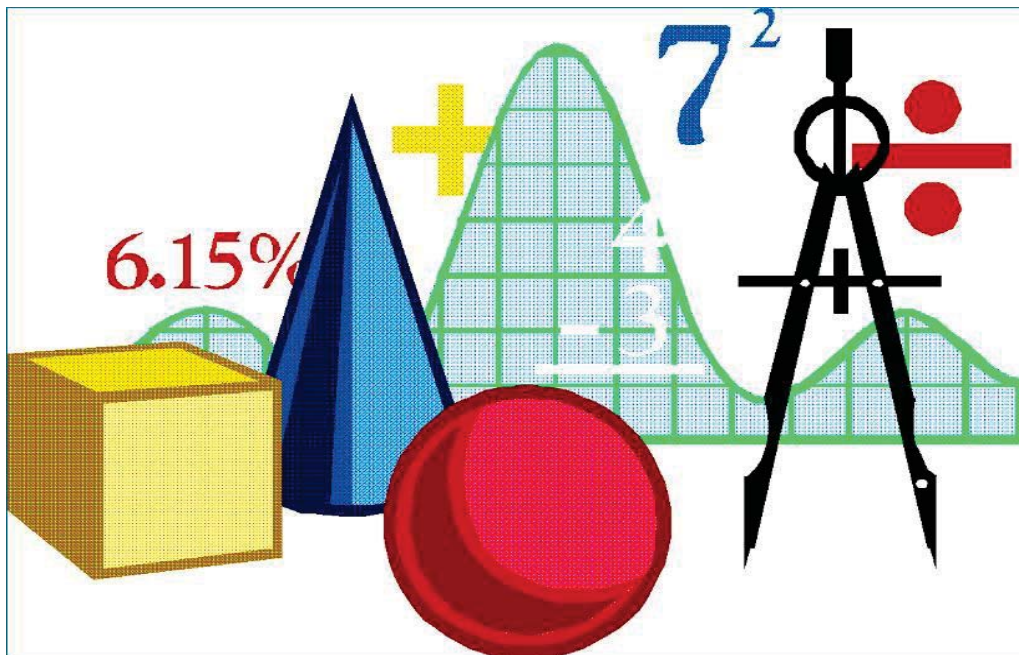
MATHEMATICS

DO NOT OPEN TEST UNTIL TOLD TO DO SO

2022-2023 Middle School Virtual Challenge Meet #3 - Mathematics Test

(1) **Evaluate:** $(4)^{-3} \times 2^9$

(A) 32768   (B) 8   (C) 64   (D) -8 (E) -64

(2) **Which of the following pairs of numbers has a greatest common factor of 24?**

(A) 24 and 36   (B) 48 and 64   (C) 36 and 240   (D) 48 and 576   (E) 72 and 120

(3) **Given that the four-sided figure is a rectangle, and the perimeter of the rectangle is 84, find the diagonal of the rectangle.**

24

(A) 42   (B) 60   (C) 72   (D) 216   (E) 30

(4) **What is the ratio of three quarts to five cups written as a decimal?**

(A) 2.4   (B) 0.6   (C) 1.2   (D) 4.8   (E) 19.2

(5) $13 \times \frac{16}{17} =$

(A) $11\frac{5}{17}$ (B) $12\frac{16}{17}$ (C) $12\frac{5}{17}$ (D) $12\frac{4}{17}$ (E) $11\frac{4}{17}$

(6) **If Brian averages 235 on his first eight number sense contests of the year and averages 325 on his last two number sense contests of the year, what is his average for the 10 contests?**

(A) 280   (B) 255   (C) 253   (D) 265   (E) 270

(7) **10 ft^2 equal to what in square inches?**

(A) 120   (B) 1200   (C) 22   (D) 1440   (E) 100

(8) **How many of the following triples would form a right triangle?**

I. 2, 3, 5   II. $8, 8\sqrt{3}, 16$ III. 12, 35, 37   IV. 10, 15, 20   V. 10, 24, 26

(A) 0   (B) 1   (C) 2   (D) 3   (E) 4

(9) **What is the diameter of a circle with equal area and circumference?**

(A) 4   (B) 2   (C) 1   (D) 6   (E) 20

(10) **How many hours are in the month of July and August combined?**

(A) 1464   (B) 1488   (C) 1440   (D) 744   (E) 720

(11) The sum of the 9th triangular number, the 10th triangular number, the 23rd triangular number and the 24th triangular number is

    (A) 576   (B) 100   (C) 66   (D) 900   (E) 676

(12) How many whole numbers divide into 324 with a remainder of 0?

    (A) 15   (B) 16   (C) 12   (D) 14   (E) 10

(13) Find the largest possible integer that the third side of a triangle can have if its other two sides are 18 and 11.

    (A) 18   (B) 197   (C) 8   (D) 28   (E) 29

(14) $1 + 2 + 3 + 4 + \ldots + 35 =$

    (A) 315   (B) 1260   (C) 324   (D) 1225   (E) 630

(15) $1_8 + 2_8 + 3_8 + 4_8 + \cdots + 14_8$ equals what number in base 8?

    (A) 96   (B) 116   (C) 105   (D) 151   (E) 210

(16) If the angles of a hexagon are 3x +20, 5x – 10, 3x + 40, 5x + 70, 8x – 12, and x + 12, then x = _____degrees

    (A) 25   (B) 24   (C) 30   (D) 40   (E) 38.4

(17) If $0.727272\ldots = \dfrac{A}{B}$, where $\dfrac{A}{B}$ is a common fraction, find the value of $A + B$.

    (A) 57   (B) 11   (C) 31   (D) 19   (E) 171

(18) First class postage cost 55 cents. If books of stamps contain 20 stamps in each book, how many full books can you buy for $300?

    (A) 10   (B) 27   (C) 28   (D) 53   (E) 12

(19) How many numbers between 100 and 1000 are perfect squares or perfect cubes of a whole number?

    (A) 26   (B) 27   (C) 19   (D) 20   (E) 25

(20) Find the temperature in Celsius, that when multiplied by 3.4 is equivalent to the corresponding value in Fahrenheit.

    (A) 20   (B) 25   (C) 30   (D) 15   (E) 10

(21) $1^3 + 2^3 + 3^3 + 4^3 + 5^3 + 6^3 =$

(A) 441　　　　　(B) 9261　　　　　(C) 651　　　　　(D) 273　　　　　(E) 1764

(22) A brand of pasta costs $7.50 for 48 ounces. One pound of this pasta would cost

(A) $ 1.56　　　　(B) $ 3.75　　　　(C) $ 2.50　　　　(D) $ 1.50　　　　(E) $ 22.50

(23) If A > 1, find k if $(A^{25} \div A^{14})^3 \times (A^{22})^2 = A^{11k}$.

(A) 2　　　　　　(B) 3　　　　　　(C) 5　　　　　　(D) 6　　　　　　(E) 7

(24) If the x-intercept is (C, 0) and the y-intercept is (0, D) on the straight line 6y – 8x = 96, then C + D =

(A) 8　　　　　　(B) – 4　　　　　(C) 48　　　　　(D) – 48　　　　(E) 4

(25) If a rectangle with length, l, and width, w, has an area of 54 and a perimeter of 30, then the diagonal will have a measure between which two integers?

(A) 7 and 8　　　(B) 8 and 9　　　(C) 9 and 10　　　(D) 10 and 11　　　(E) 11 and 12

(26) $12\frac{3}{5} \times 12\frac{2}{5} =$

(A) $144\frac{6}{25}$　　　　(B) 145　　　　(C) $156\frac{6}{25}$　　　　(D) $157\frac{1}{5}$　　　　(E) $145\frac{1}{5}$

(27) If the area of a rhombus is 120, the measures of the diagonals are integers, and the perimeter is 52, find the length of the longer diagonal.

(A) 26　　　　　(B) 24　　　　　(C) 20　　　　　(D) 10　　　　　(E) 12

(28) 2x + 3y = 17 and 3x – 2y = 19, find the larger of the two numbers, x and y.

(A) 9　　　　　　(B) 7　　　　　　(C) 5　　　　　　(D) 3　　　　　　(E) 1

(29) B is the units digit in the number 487B, a number that is divisible by 9.
Find the value of B.

(A) – 1　　　　　(B) 4　　　　　　(C) 6　　　　　　(D) 8　　　　　　(E) 10

(30) Find the value of x + y in the figure to the right? (Not drawn to scale)

(A) 222°　　　(B) 138°　　　(C) 132 °　　　(D) 148°　　　(E) 90°
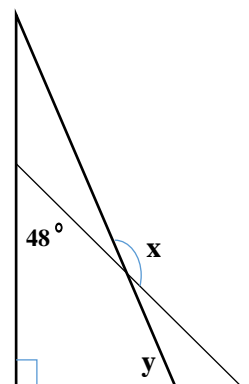
(31) If x + y = 20 and xy = 10, and $x^2 + kxy + y^2 = 200$, where k is an integer, find the value of k.

(A) – 20   (B) – 18   (C) 18   (D) 20   (E) 12

(32) The line 15x + 20y = 180 has how many coordinates (p, q) where both p and q are both nonnegative integers.

(A) 3   (B) 4   (C) 0   (D) 2   (E) 1

(33) If a line passes through (a, 8a) and (3a, – 20a), given that a ≠ 0, then the slope is _____

(A) 14   (B) – 14   (C) 1/14   (D) – 1/14   (E) – 6

(34) Torin set a school record for most points by one person in a basketball game for his school. He scored 37.5% of the 96 points of his team. How many points did Torin score?

(A) 36   (B) 32   (C) 40   (D) 37.5   (E) 60

(35) PQR is a right triangle with 90 degree angle at Q. If PR has length $16\sqrt{2}$, and PQ has length $8\sqrt{3}$, then QR =

(A) $8\sqrt{5}$ (B) 16   (C) $8\sqrt{3}$ (D) $8\sqrt{2}$ (E) $5\sqrt{8}$

(36) How much has to be invested at 6 % simple interest for five years to earn $750.00 in interest?

(A) $ 2500.00   (B) $ 5000.00   (C) $4000.00   (D) $ 3250.00   (E) $ 1750.00

(37) How many prime numbers are between 75 and 100?

(A) 2   (B) 3   (C) 4   (D) 5   (E) 6

(38) If 3 quarts are added to 12 pints, how many gallons are there?

(A) 1.5   (B) 2   (C) 2.5   (D) 2.25   (E) 4.5

(39) If Ax + 5y = C passes through (4, 12) is perpendicular to 5x – 6y = 17, then what is the value of C?

(A) 84   (B) 90   (C) 6   (D) 96   (E) 17

(40) How many combinations of nickels, dimes and quarters are there given the money has a value of 55 cents?

(A) 9   (B) 15   (C) 11   (D) 10   (E) 12

(41) Roosevelt is going to the store. Three-fifths of the way, he stops to talk with Kevin. He then continues for 6 km and reaches the store. How many kilometers does he travel altogether?

(A) 9   (B) 15   (C) 20   (D) 18   (E) 4.5

(42) What is the area of a triangle with coordinates P(5, 11) Q (0, 14), and R(0, −12)?

(A) 24   (B) 130   (C) 286   (D) 65   (E) 143

(43) If the sum of 10 consecutive even integers is 310 , find sum of the integers below the median.
(A) 145   (B) 140   (C) 160   (D) 150   (E) 130

(44) Krishna can work a number sense test in 12 minutes. Alexis can work a number sense test in 8 minutes. How long would it take them if they worked together to the nearest tenth of a minute.
(A) 10   (B) 9.6   (C) 4.8   (D) 5   (E) 4.9

(45) Find the sum of the 5th pentagonal number and the 5th triangular number.
(A) 40   (B) 50   (C) 54   (D) 48   (E) 60

(46) In eighth grade, the ratio of boys to girls was 3:5. If 28 boys are added to the group, the ratio of boys to girls is now 1:1. How many students were in the original group?
(A) 112   (B) 14   (C) 140   (D) 120   (E) 96

(47) If the y-intercept and x-intercept of f(x) = mx + 10 add to – 5, then the value of m is
(A) $-\frac{1}{3}$ (B) $\frac{1}{3}$ (C) $\frac{2}{3}$ (D) $-\frac{2}{3}$ (E) 3

(48) If $4^{x+3} = 100$, then $4^{x+5} =$
(A) 25   (B) 6.25   (C) 6400   (D) 400   (E) 1600

(49) $534_8 \times 111_8$ is equal to what number in base 8.
(A) 61474   (B) 6074   (C) 60474   (D) 5074   (E) 61274

(50) A 4 by 4 by 4 cube is made up of 64 individual unit cubes. The faces of the 4 by 4 by 4 cube are painted red. How many of the unit cubes have no paint on them?
(A) 27   (B) 16   (C) 12   (D) 8   (E) 4

MIDDLE SCHOOL VIRTUAL CHALLENGE MEETS
MATHEMATICS
CONTESTANT ANSWER SHEET

CONTESTANT _____   SCHOOL_____   GRADE _____

CORRECT ANSWER = 5 PTS, INCORRECT ANSWER = (-2) PTS, NO PENALTY FOR LEAVING BLANK

1. _____   21. _____   41. _____

2. _____   22. _____   42. _____

3. _____   23._____   43. _____

4. _____   24. _____   44. _____

5. _____   25. _____   45. _____

6. _____   26. _____   46. _____

7. _____   27._____   47. _____

8. _____   28. _____   48. _____

9. _____   29. _____   49. _____

10. _____   30. _____   50. _____

11. _____   31. _____

12. _____   32. _____

13. _____   33. _____

14. _____   34. _____

15. _____   35. _____

16. _____   36. _____

17. _____   37. _____

18. _____   38. _____

19. _____   39. _____

20. _____   40. _____

The Virtual Challenge Meets™

2022-2023 Middle School Virtual Challenge Meet #3 – Mathematics Key

CORRECT ANSWER = 5 PTS, INCORRECT ANSWER = (-2) PTS, NO PENALTY FOR LEAVING BLANK

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

Name _____

School _____

Grade   5   6

Classification   A   2A   3A   4A   5A   6A

Final   _____   _____

2nd   _____   _____

1st   _____   _____

Score   Initials

**Read directions carefully
before beginning test**

**DO NOT UNFOLD THIS SHEET
UNTIL TOLD TO BEGIN**

Directions: Do not turn this page until the proctor 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 w5hich they appear. ALL PROBLEMS ARE TO BE SOLVED MENTALLY without the help of paper, pencil, or calculator. Write only the answer in the space provided at the end of each problem. Problems marked with an (*) require approximate integral answers; any answer to a problem with an *asterisk* that is within five percent of the exact answer will be scored correct; all other problems require exact answers.

STOP – WAIT FOR SIGNAL!

(1) 132 - 44 = _____

(2) 12 + 13 + 14 = _____

(3) 53×4 = _____

(4) $135 \div 5$ = _____

(5) 93×11 = _____

(6) $168 \div 4$ = _____

(7) $8 \times 3 \times 5$ = _____

(8) 183 + 249 = _____

(9) Find the product of the digits of 123456. _____

*(10) 2023×202 = _____

(11) 18×22 = _____

(12) $(11 + 13 + 15 + 17 + 19) \div 3$ = _____

(13) 17387.4678 rounded
to the nearest ten is_____

(14) CDXLIV = _____ (Arabic Numeral)

(15) There are _____ even numbers between 400 and 800.

(16) There are_____odd numbers between 17 and 73.

(17) 92×25 = _____

(18) 68×101 = _____

(19) $573 \div 4$ has a remainder of_____

*(20) $214833 \div 499$ = _____

(21) 15×42 = _____

(22) $\frac{43}{4}$ = _____ (decimal)

(23) $\frac{13}{15} + \frac{8}{15}$ = _____ (improper fraction)

(24) 23 quarts = _____ cups

(25) 0.45 = _____(common fraction)

(26) 4 feet + 7 inches = _____ inches

(27) 75×44 = _____

(28) Which is larger $\frac{7}{17}$ or $\frac{2}{5}$? _____

(29) The sum of the prime numbers
between 15 and 25 is_____

*(30) 375×959 = _____

(31) $6\frac{1}{4}\%$ = _____(common fraction)

(32) The sum of the distinct prime divisors of 42 is_____

(33) $\frac{17}{28} + \frac{7}{28}$ = _____ (common fraction)

(34) 8 is to 12 as 30 is to n. n =_____

(35) $\frac{8}{5} - \frac{2}{5}$ = _____(decimal)

(36) If 4 pens cost \$2.37,
then a dozen pencils cost \$_____

(37) What is the greatest common divisor (GCD)
of 32 and 44?_____

(38) What is the least common multiple (LCM)
of 32 and 44?_____

(39) $125 \times 408 =$ _____

*(40) $33\frac{1}{3} \times 435 =$ _____

(41) If x = 4.4, then 18 – 3x = _____(decimal)

(42) $\frac{5}{4} + \frac{5}{2} =$ _____(mixed number)

(43) A number, 4x, subtracted from 93 equals 61. x = __

(44) The area of a rectangle is 90, and the length
of one side is 18. The perimeter is_____

(45) How much greater is the area
of a square with perimeter of 64 than
the area of a square with perimeter 56? _____

(46) $17^2 =$ _____

(47) $4\frac{2}{3} + 3\frac{5}{6} =$ _____(mixed number)

(48) In the sequence:
7, 13, 19, 25, 31, p, q, … , p + q = _____

(49) 11011 (base 2) =_____base 4

*(50) $75^3 =$ _____

(51) The perimeter of nonagon with side 23 is _____

(52) $\frac{13}{17} + \frac{17}{13} =$ _____ (mixed number)

(53) If 6x + 5 = 19, then x =_____(mixed number)

(54) If set A = {n,u,m,b,e,r,s} and set B = {l,a,b,o,r,s}
then how many elements are in A ∩ B?_____

(55) $113 \times 105 =$ _____

(56) 264 base 7 = _____ base 10

(57) 93 base 10 =_____ base 8

(58) $64 \times 32 \div 8 =$ _____

(59) The sum of the number of faces, edges,
and vertices on a cube is_____

*(60) A circle has a radius of 21.
The area of the circle is _____

(61) $-20 \div 2 + (-36) \div 3 =$ _____

(62) $155^2 – 145^2 =$ _____

(63) $\frac{2}{3} + \frac{3}{4} + \frac{4}{5} =$ _____ (improper fraction)

(64) What is the volume of a rectangular box
with sides 8 cm, 8 cm and 25 cm? _____cm^3

(65) $15^2 + 45^2 =$ _____

(66) $111 \times 831 =$ _____

(67) If $13 = \sqrt{x}$, then x =_____

(68) The area of a parallelogram
with base 14 and height 22 is_____

(69) $12^3 =$ _____

*(70) $775^2 =$ _____

(71) If a pair of dice is thrown, the probability
that the sum of the dice is 2 or 3 is_____

(72) If the perimeter of a regular hexagon
is 81, then what is
the length of one side? _____ (decimal)

(73) $57^2 =$ _____

(74) How many positive whole numbers
make the inequality 2x – 16 ≤ 12 true?_____

(75) The distance between – 54 and 26 is _____

(76) 1 + 2 + 3 + … + 40 =_____

(77) 1 + 3 + 5 + 7 + .. + 89 =_____

(78) In an acute triangle, how
many of the angles are less than 90° ? _____

(79) $16^2 – 9^2 = 5 \times$ _____

*(80) $75^2 + 225^2 =$_____

(1) 88

(2) 39

(3) 212

(4) 27

(5) 1023

(6) 42

(7) 120

(8) 432

(9) 720

*(10) 388214 – 429078

(11) 396

(12) 25

(13) 17390

(14) 444

(15) 199

(16) 27

(17) 2300

(18) 6868

(19) 1

*(20) 410 – 452

(21) 630

(22) 10.75

(23) $\frac{7}{5}$

(24) 92

(25) $\frac{9}{20}$

(26) 55

(27) 3300

(28) $\frac{7}{17}$

(29) 59

*(30) 341644 – 377606

(31) $\frac{1}{16}$

(32) 12

(33) $\frac{6}{7}$

(34) 45

(35) 1.2

(36) 7.11

(37) 4

(38) 352

(39) 51000

*(40) 13775 – 15225

(41) 4.8

(42) $3\frac{3}{4}$

(43) 8

(44) 46

(45) 60

(46) 289

(47) $8\frac{1}{2}$

(48) 80

(49) 123

*(50) 400782 – 442968

(51) 207

(52) $2\frac{16}{221}$

(53) $2\frac{1}{3}$

(54) 3

(55) 11865

(56) 144

(57) 135

(58) 256

(59) 26

*(60) 1317 – 1454

(61) – 22

(62) 3000

(63) $\frac{133}{60}$

(64) 1600

(65) 2250

(66) 92241

(67) 169

(68) 308

(69) 1728

*(70) 570594 – 630656

(71) $\frac{1}{12}$

(72) 13.5

(73) 3249

(74) 14

(75) 80

(76) 820

(77) 2025

(78) 3

(79) 35

*(80) 53438 – 59062

Name _____

School _____

Grade   6   7   8

Classification   A   2A   3A   4A   5A   6A

Final   _____   _____

2nd   _____   _____

1st   _____   _____

       Score   **Initials**

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STOP – WAIT FOR SIGNAL!

(1) $2023 \times 11 =$_____

(2) $2023 - 3202 =$ _____

(3) $132 \times 7 =$ _____

(4) $465 \div 5 =$_____

(5) $82 \times 25 =$ _____

(6) $\frac{7}{8} - \frac{1}{4} =$ _____(common fraction)

(7) $24^2 =$_____

(8) $47 \div \frac{1}{4} =$_____

(9) $2023 + 2024 + 2025 + 2026 + 2027 =$_____

*(10) $2023 \times 125 =$_____

(11) $3.45 \times 6 =$ _____(decimal)

(12) Find the median of 14, 31, 37, and 47. _____

(13) $82 \times 78 =$_____

(14) Which is larger $\frac{7}{11}$ or $\frac{13}{20}$? _____

(15) 28 has how many distinct prime divisors?_____

(16) $\frac{8}{15} \div \frac{4}{5} =$ _____(fraction)

(17) $32 \times 48 + 18 \times 48 =$ _____

(18) $1 + 2 + 3 + \ldots + 10 =$_____

(19) $105^2 =$_____

*(20) $375 \times 512 =$ _____

(21) $487 \times 111 =$_____

(22) If $f(x) = x^2 + 12x + 36$, then $f(17) =$ _____

(23) 5 weeks = _____ hours

(24) 4 gallons + 2 quarts + 1 pint =_____ pints

(25) If $9n + 11 = 91$, then $n =$_____(mixed number)

(26) $19^2 + 20^2 =$_____

(27) $90\frac{15}{64} \div 9\frac{5}{8} =$_____ (mixed number)

(28) $98 \times 95 =$ _____

(29) The square root of 225 is_____

*(30) $6^4 \times 13^2 =$ _____

(31) How many positive multiples
of 9 are less than 300?_____

(32) $685 \times 101 =$_____

(33) The area of a square with integer sides is 96 more
than its perimeter. Find the side of the square.____

(34) If $4n + 12 = 62$, then $12n =$_____

(35) How many composite numbers
are between 15 and 35?_____

(36) $6\frac{1}{4} \times 10\frac{1}{4} =$_____(mixed number)

(37) $37\frac{1}{2} \times 24 =$ _____

(38) The number of positive integral divisors of 72 is____

(39) $\sqrt{1849} =$_____

*(40) 667 × 839 =_____

(41) 25025 × 23 =_____

(42) A decagon has_____distinct diagonals

(43) The sum of the measures of the
interior angles of a decagon is_____°

(44) The sum of the
positive integral divisors of 72 is _____

(45) Find the sum of the next three terms in the
arithmetic sequence 11, 15, 19, 23, … . _____

(46) $\frac{25}{21} + \frac{21}{25}$ = _____ (mixed number)

(47) The volume of a cube is 729.
Find the surface area of the cube. _____

(48) 455_{15} =_____$_{10}$

(49) The area of a triangle
with base 24 and height $12\frac{1}{2}$ is _____

*(50) $5733 \div \frac{3}{11}$ = _____

(51) $547_8 - 263_8$ = _____$_8$

(52) $21\frac{1}{3}\%$ = _____ (common fraction)

(53) 93 × 108 =_____

(54) 122 × 104 =_____

(55) 15^3 =_____

(56) $3^{12} \times 3^{11} \times 3^{10} \times ... \times 3^2 \times 3 = 3^x$. x = _____

(57) If set A = {p,l,a,n,e,s} and
set B = {p,r,i,s,t,n,e}, $A \cup B$ has _____elements

(58) If 15 – x < 4x, then x >_____

(59) $2^{33} \div 11$ has a remainder of_____

*(60) $\sqrt{372010}$ =_____

(61) When reduced 0.555… = $\frac{N}{D}$. N + D = _____

(62) $632_9 \times 111_9$ = _____$_9$

(63) A black bag contains 11 green, 7 blue, and
x red marbles. Find x if the probability
of drawing a red marble is 40%. _____

(64) $4^3 + 4^2 + 4^1 = 4 \times$ _____

(65) $\frac{13!+11!}{12!}$ = _____ (mixed number)

(66) If $x^2 = 25$, then (6x – 8)(6x + 8) = _____

(67) $21 \times \frac{19}{17}$ = _____(mixed number)

(68) The area of a square with diagonal 18 is_____

(69) If one of the roots of
$x^2 + kx + 36 = 0$ is 4, then k = _____

*(70) 723000 ÷ 452 = _____

(71) 243 × 247 =_____

(72) If the odds of an event successfully
happening are 20 to 15, then the
probability of that event happening is_____

(73) If P and Q are roots
of $f(x) = 2.5x^2 – 28x + 12$, then PQ + P + Q = _____

(74) The probability of rolling a
sum of 5 or 9, with two 6-sided die is_____

(75) $5^3 + 6^3$ =_____

(76) 336 × 125 =_____

(77) $\frac{14!}{12!}$ +14 = x^2, where x is a positive number. x = _____

(78) $21^2 + 42^2$ =_____

(79) {h,u,s,k,i,e,b} has_____ 2-element subsets

*(80) $(1 + 3 + 5 + 7 + 9 + 11 + 13 + \cdots + 49)^2$ =
_____

(1) 22253

(2) – 1179

(3) 924

(4) 93

(5) 2050

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

(7) 576

(8) 188

(9) 10125

*(10) 240232 – 265518

(11) 20.7

(12) 34

(13) 6396

(14) $\frac{13}{20}$

(15) 2

(16) $\frac{2}{3}$

(17) 2400

(18) 55

(19) 11025

*(20) 182400 – 201600

(21) 54057

(22) 529

(23) 840

(24) 37

(25) $8\frac{8}{9}$

(26) 761

(27) $9\frac{3}{8}$

(28) 9310

(29) 15

*(30) 208073 – 229975

(31) 33

(32) 69185

(33) 12

(34) 150

(35) 14

(36) $64\frac{1}{16}$

(37) 900

(38) 12

(39) 43

*(40) 531633 – 587593

(41) 575575

(42) 35

(43) 1440

(44) 195

(45) 93

(46) $2\frac{16}{525}$

(47) 486

(48) 980

(49) 150

*(50) 19970 – 22072

(51) 264

(52) $\frac{16}{75}$

(53) 10044

(54) 12688

(55) 3375

(56) 78

(57) 9

(58) 3

(59) 8

*(60) 580 – 640

(61) 14

(62) 71252

(63) 12

(64) 21

(65) $13\frac{1}{12}$

(66) 836

(67) $23\frac{8}{17}$

(68) 162

(69) – 13

*(70) 1520 – 1679

(71) 60021

(72) $\frac{4}{7}$

(73) 16

(74) $\frac{2}{9}$

(75) 341

(76) 42000

(77) 14

(78) 2205

(79) 21

*(80) 371094 – 410156

THE ▼IRTUAL MEET EXPERIENCE

PRESENTS

2022-2023

MIDDLE SCHOOL

VIRTUAL CHALLENGE MEET #3

Science

DO NOT OPEN TEST UNTIL TOLD TO DO SO

1. What is a correct unit of measurement for temperature?
   A) bars   C) K
   B) PSI   D) N

2. Why is RNA used to transfer the genetic code from DNA to create a protein?
   A) DNA is unable to leave the nucleus.
   B) The ribosome cannot read the nucleotides of DNA.
   C) The tRNA will not connect properly to the triplet of DNA.
   D) All the answers are correct

3. What type of energy transfer is occurring when a bunny shivers when it is cold causing an increase in blood flow which leads to the bunny's body to convert stored energy into other molecules producing heat?
   A) chemical to thermal
   B) radiant to chemical
   C) electrical to thermal
   D) mechanical to radiant

4. DNA is made of individual building blocks known as
   A) RNA.   C) amino acids.
   B) nucleotides.   D) nucleic acids.

5. A marsh in Florida has many fish species as well as alligators, migrating cranes, snapping turtles and many other animals that enjoy the high nutrient filled waters and moderate temperatures. What would correctly describe the marsh?
   A) An ecosystem   C) A biome
   B) A community   D) A microhabitat

6. What is the total amount of liquid that was used from the burette in the image?
   A) 10.6 mL
   B) 11.5 mL
   C) 11.4 mL
   D) 10.4 mL
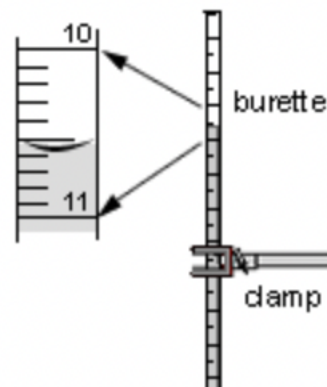
7. What type of chemical reaction is this: $2AgBr \rightarrow 2Ag + Br_2$
   A) Synthesis
   B) Decomposition
   C) Combustion
   D) Double replacement

8. What can be determined by the following information in the data table below?

Mass of beaker (g)	Volume of beaker (mL)	Volume of water added (mL)	Mass of beaker and water added (g)
31.29	50	17	48.29
49.30	100	78	127.3
68.6	150	112	180.6

  A) The mass of a beaker is proportional to its volume
  B) The mass of water is equal to its volume
  C) The volume of a beaker is equal to the mass of water
  D) None of the above are correct

9. How do microvilli aid in absorption of nutrients in the small intestine?
  A) By increasing the surface area of the cells
  B) By increasing the numbers of cells
  C) By decreasing the number of folds in the small intestine walls
  D) By decreasing the length of the small intestine

10. Which of the following scenarios best defines acceleration?
  A) You ride your bike around the block at 10 mph.
  B) A bowling ball travels down the runway at 15 mph.
  C) A jaguar runs straight through the grass at 45 mph.
  D) A dog runs North 20 feet in 10 seconds.

11. A turgid plant cell wall has pressure pushing on it as the water has moved into the _____ causing the entire cell to swell.
  A) nucleus   C) vacuole
  B) cytoplasm   D) chloroplasts

12. The term sea breeze refers to the wind that blows from a large body of water towards land due to the differences in air pressure that is created by heating differences of water and land. This movement of energy is called
  A) conduction   C) radiation
  B) convection   D) prevailing

13. Many coastal regions are having difficulty with reduced fish populations due to overfishing. What would not be a good solution to help increase the fish populations?
  A) Reduce the number of fish caught per person
  B) Provide artificial coral reefs to help provide additional habitats
  C) Restrict fishing of certain types of fish to particular seasons
  D) Introduce non-native fish to the communities

14. Which atomic model below has the least mass?

A)
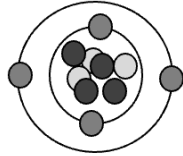
B)
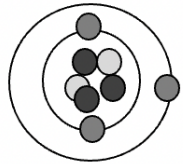
C)
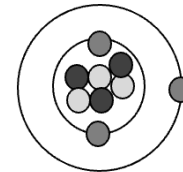
D)
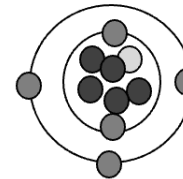
15. Which of these statements is correct regarding asexual reproduction and not sexual reproduction?
    A) The genetic material of the offspring is identical to the parents.
    B) The offspring have traits related to the parents.
    C) The genetic material is not identical to the parents, but they each contribute.
    D) The offspring will grow and develop.

16. A student poured sand into a graduated cylinder up to 16 mL and then put 30 mL of water into the graduated cylinder. The water level in the graduated cylinder read 40 mL. Determine the volume of air that surrounded the sand prior to the water being poured.
    A) 16 mL   C) 10 mL
    B) 14 mL   D) 6 mL

17. As Jessica continues to run her marathon her heartbeat and breathing rate increase. What is the possible reason her body responds in such a way?
    A) Release of increased carbon dioxide
    B) Decreased body temperature
    C) Increased water retention
    D) Release of built-up toxins

18. Which combination of closed switches would only turn on lightbulb 2, 3, and 4?
    A) A and C
    B) A, B, and C
    C) B and C
    D) A and B
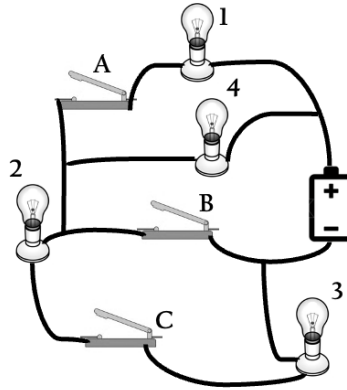
19. What process causes mushroom rocks like the one in the image to form?
    A) Deposition
    B) Chemical weathering
    C) Sublimation
    D) Wind erosion

20. In which trophic level would radiant energy be converted into chemical energy?
    A) Primary consumer   C) Producer
    B) Secondary consumer   D) Decomposer

21. Olympus Mons is a volcano that was found on the surface of
    A) Mars.   C) Saturn.
    B) Jupiter.   D) Neptune.

22. What amount of Newtonian force does the Earth exert on a person that has a mass of 62 kg?
    A) 6.32 N   C) 0.16 N
    B) 607.6 N   D) 1.58 N

23. A scientist crosses two plants and records the outcomes of the offspring in the data table below. What would be a possible conclusion about the genetic patterns seen in the offspring?

	Plant 1	Plant 2	Plant 3	Plant 4	Plant 5
Petal Color	Purple	White	Purple	Purple	White
Leaf Length	Long	Short	Short	Short	Long

    A) Purple petal color is dominant
    B) Long leaf length is recessive
    C) The parent plants were heterozygous
    D) Both petal color and leaf length have two alleles

24. An animal cell undergoes these following:

    Chromatin condenses
    Centrioles extend spindle fibers
    Nuclear membrane dissolves

    What would be the next step of the process?
    A) Sister chromatids begin to separate
    B) Two new nuclear membranes form
    C) Chromosomes migrate to the equatorial plate
    D) The cytoplasm divides and two new daughter cells are created

25. During an adaptive immune response, the antigen-presenting cell helps to activate what two types of lymphatic cells?
    A) T cells and B cells
    B) Macrophages and neutrophils
    C) B cells and macrophages
    D) Neutrophils and mast cells

26. When making an energy pyramid, how many energy levels should a student draw from the food web below?
    A) 4
    B) 3
    C) 5
    D) 6
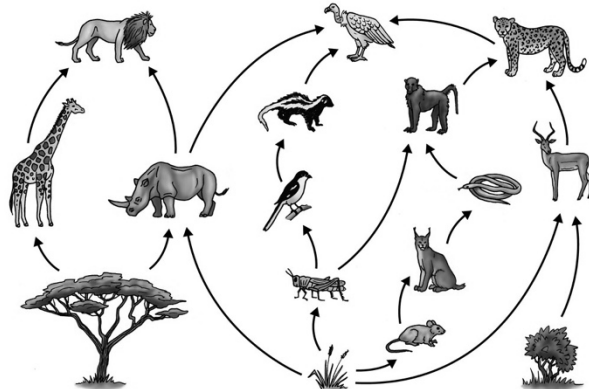
27. New islands in the Atlantic Ocean form from ancient volcanoes rising from the sea floor called
    A) mid-oceanic ridges.
    B) seamounts.
    C) abyssal plain.
    D) rift valley.

28. If a student wanted to test the maximum temperature of boiling water once solutes are added, what temperature range on the thermometer is most appropriate to use?
    A) -10°C to 100°C
    B) -20°C to 120°C
    C) -30°C to 50°C
    D) -30°C to 212°C

29. What is true of an invasive species?
    A) They do not add competition to a community they are not native
    B) They have no natural predators in the community they are not native
    C) They are always predatory
    D) They thrive in communities in which they are the tertiary consumer

30. What does the image to the side represent?
    A) The changes of the seasons due to the Earth's tilt
    B) The changes in ocean tides due to the Earth's tilt
    C) The length of Earth's revolution
    D) The changes in lunar phases

31. Parthenogenesis is a unique form of asexual reproduction that occurs commonly in reptiles when a female does not have a suitable mate. In this situation one of her eggs will replicate the genetic material and develop into a zygote. What is true about the offspring that results?
    A) It will be genetically identical to the mother
    B) It will lack genetic material
    C) It will have twice as many chromosomes as the mother
    D) It will be unable to reproduce later in life

32. Randy was given the following information about 4 unknown elements and how they react with chlorine. Which of the two elements is most likely in the same periodic table column?

Unknown Element (X)	Atomic Radii	Type of Element	Reactivity with Chlorine
1	166	Metal	XCl
2	71	Nonmetal	XCl_3
3	107	Nonmetal	XCl_3
4	176	Metal	XCl_2

A) 1 and 2
B) 2 and 3
C) 3 and 4
D) 1 and 4

33. The image below is indicating what type of weather will occur?
    A) Sunny with some cloud cover
    B) Possible tornado
    C) Dry calm conditions
    D) Nothing can be determined
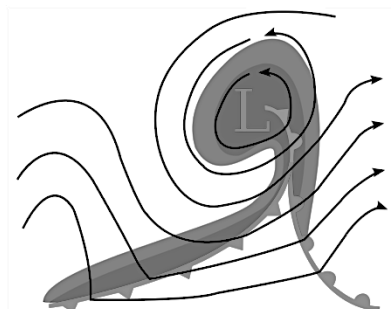
34. Each column of the periodic table categorizes elements based primarily on their
    A) energy levels.
    B) number of neutrons.
    C) reactivity with other elements.
    D) melting and boiling points.

35. Any chemical that can speed up a reaction, but that is not used up the reaction is called a(n)
    A) catalyst.
    B) precipitate.
    C) messenger.
    D) indicator.

36. Which statement below does not describe an astronomical unit correctly?
    A) it is approximately 93 million miles
    B) it is the average distance from the Earth to the Sun
    C) the size of the Milky Way galaxy
    D) it is approximately 150 million km

37. If a fixed pulley system required 40 N of effort to pick up an object, how much effort would be required in a moveable pulley system?
    A) 40 N
    B) 80 N
    C) 20 N
    D) 50 N

38. If two girls pushed on a large crate equally according to the image below, in what direction will the box move?
    A) North
    B) West
    C) Northeast
    D) Northwest
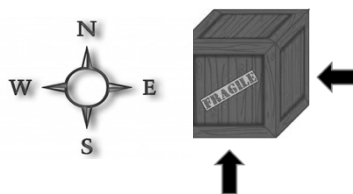
39. Which list contains elements with the most reactivity?
    A) Xe, Li, Cs, B
    B) S, Ne, Na, K
    C) F, K, Rb, H
    D) Al, C, Cl, Ar

40. An ecological succession would least likely occur in which of the following scenarios?
    A) A farmer's crops are burned, and the soil is overturned.
    B) A local grassland is cleared out for a new apartment complex and warehouse facility.
    C) A volcano erupts with lava flow for 2 km.
    D) A firework show in a dry area causes a grass fire that soon becomes a forest fire.

41. What will happen over time to the area labeled A-B in the contour map below?
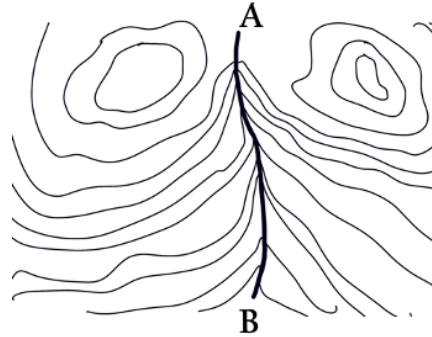
    A) The area will become more steep due to wind and water erosion
    B) The area will become more steep due to deposition
    C) The area will become less steep due to deposition
    D) The area will become less steep due to weathering

42. What is correctly matched with its weather phenomena?
    A) El Nino brings wetter weather to the southern united states
    B) La Nina causes warm ocean water in the Pacific off the coast of South America
    C) Derecho storms are short-lived microbursts with minimal winds and precipitation
    D) La Nina will decrease rainfall in Australia and increase daytime temperatures

43. Vitamin D is fat soluble and should be taken with a meal for maximum absorption. What is also true of Vitamin D?
    A) it can readily pass through the cell membrane
    B) it is unable to pass the cell membrane and requires and transport protein
    C) it will be easily dissolved in the blood plasma
    D) it will not be absorbed by the body and pass through your urine

44. As a neutral atom gains an electron what term(s) would appropriately describe it after the addition?
    A) Positive cation
    B) Negative anion
    C) Positive anion
    D) Negative cation

45. Which statement is an example of work?
    A) Grace pushes against the wall and soon becomes exhausted.
    B) A FedEx worker picks up a box over his shoulders and carries it to the door.
    C) An ice skater skates around the rink and jumps in the air to do a spin.
    D) A student carries their backpack to another class.

46. As a comet gets closer to the Sun it warms and begins to release gas creating the visible comet tail. This process is called
    A) evaporation.
    B) upwelling.
    C) outgassing.
    D) accretion.

47. A student was observing a human cell and needed to determine if it was a gamete or a somatic cell. What observation would best be used to determine that it is a somatic cell?
    A) It contains 46 chromosomes
    B) It has a nuclear membrane
    C) It does not have an X chromosome
    D) It has half of its genetic material

48. During sourdough bread production, yeast and bacteria go through the process of fermentation to produce
    A) alcohol and carbon dioxide.
    B) lactic acid and glucose.
    C) glucose and energy.
    D) alcohol and starch.

49. What is the appropriate shorthand description of the following location? Latitude is always written first. 25 degrees west of the prime meridian and 30 degrees north of the equator
    A) 25°W, 30°N
    B) 175°W, 60°N
    C) 60°N, 175°W
    D) 30°N, 25°W

50. Using the following information identify the water dragon's scientific name.

1. Fur present	a. Yes	*Leo tigris*
	b. No	go to step 2
2. Scales present	a. Yes	go to step 4
	b. No	go to step 3
3. Smooth skin	a. Yes	go to step 5
	b. No	*Asterias rubens*
4. Breathes with gills	a. Yes	*Perca fluviatillis*
	b. No	*Intellagama lesueurii*
5. Goes through metamorphosis	a. Yes	*Phyllobates terribilis*
	b. No	*Platyhelminthes*

A) *Asterias rubens*
B) *Perca fluviatillis*
C) *Leo tigris*
D) *Intellagama lesueurii*

The Middle School Virtual Challenge Meets
Science Contest • Answer Sheet

CORRECT ANSWER = 5 PTS, INCORRECT ANSWER = (-2) PTS, NO PENALTY FOR LEAVING BLANK

Circle Grade Level: 5   6   7   8

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

2022-2023
Middle School Virtual Challenge Meet #3
Science - Key

CORRECT ANSWER = 5 PTS, INCORRECT ANSWER = (-2) PTS, NO PENALTY FOR LEAVING BLANK

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

THE ▼IRTUAL MEET EXPERIENCE

PRESENTS

2022-2023

Middle School

Virtual Challenge Meet #3
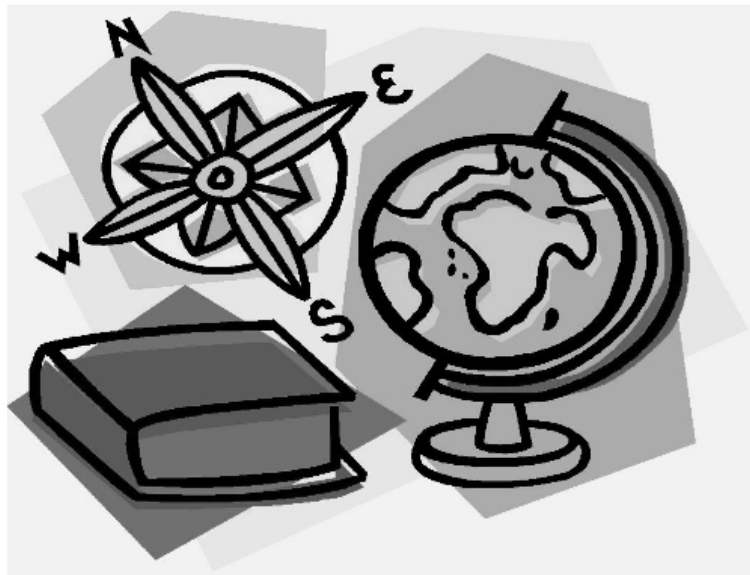
Social Studies 5th/6th

DO NOT OPEN TEST UNTIL TOLD TO DO SO

1. "The Incident on Kings Street" occurred on March 5, 1770. Crispus Attucks was a victim of the confrontation which is known today as the ___.

   A. Boston Tea Party
   B. Boston Massacre
   C. Stamp Act Congress
   D. Battle of Lexington and Concord

2. The map above shows the Proclamation Line. What did the line indicate?

   A. The border between British and French in North America
   B. Trade was prohibited with groups west of the line
   C. Colonists could not move west of the line
   D. The future locations of bases for a defensive perimeter

3. ____ was the location of the convention that created the 1836 Texas Constitution.

   A. Austin
   B. Houston
   C. San Antonio
   D. Washington-on-the-Brazos

- *Delegate to Continental Congress for Massachusetts*
- *Member of the drafting committee for the Declaration of Independence*
- *First Vice President of the United States*
- *Second President of the United States*

4. Who is described by the list above?

    A. George Washington   **C.** Alexander Hamilton
    B. Thomas Jefferson   **D.** John Adams

5. The Mexican government banned ____, but the 1836 Texas Constitution allowed it.

    A. Slavery
    B. Women's right to vote
    C. Public property
    D. Cattle farming

6. Rituals, architecture, observances, and holidays are examples of what?

    A. Examples of linguistic institutions
    B. Comparison of religious institutions
    C. Educational rights and practices
    D. Systems of government

7. Who was the British general who surrendered at the final major battle of the American Revolution?
    A. William Howe
    B. Henry Clinton
    C. John Burgoyne
    D. Charles Cornwallis
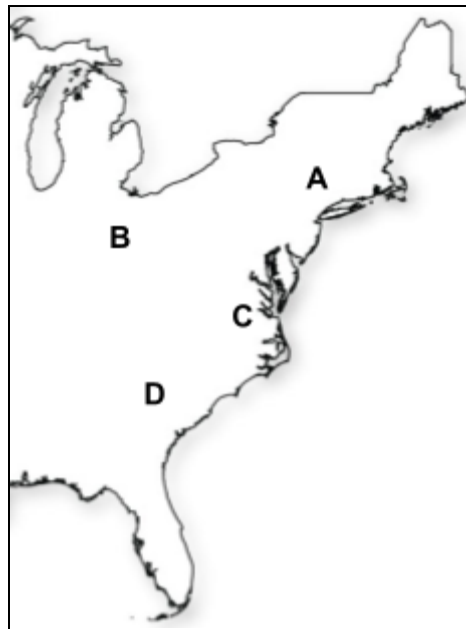
8. During the American Revolution in 1775-1777, most of the fighting was in which area?

    A. A   **C.** C
    B. B   **D.** D

9. Which of the following is a description of the middle colonies?

    A. Fertile land used for indigo and rice production
    B. Long summers and short winters
    C. Combination of trade and plantations
    D. All were royal colonies

10. The _____ economic system is characterized by collective ownership of all means of production.

    A. Socialist   **C.** Market economy
    B. Free enterprise   **D.** Communist

11. According to the _____, the King had a history of repeated "injuries and usurpations."

    A. Declaration of the Causes and Necessity of Tanking up Arms
    B. Common Sense
    C. Declaration of Independence
    D. Olive Branch Petition

I. Battle of Lexington and Concord
II. Declaration of the Causes and Necessity of Taking up Arms
III. Second Continental Congress
IV. Olive Branch Petition

12. In 1775, which of the following is in the correct chronological order?

A. I, III, IV, II   **C.** IV, III, II, I
B. II, I, III, IV   **D.** I, IV, II, III

13. Which of the following is the definition of a monarchy?

A. Religious rule   **C.** Hereditary rule
B. Dictators who took control   **D.** Leadership voted into power

14. Which document written in 1620 described a social contract between adult males traveling to the New World?

A. Fundamental Orders of Connecticut
B. Mayflower Compact
C. Virginia Declaration of Rights
D. Maryland Act of Toleration

15. Paul Revere and William Dawes were midnight riders sent to warn the minutemen of incoming Redcoats and specifically warn which leaders of possible arrest?

A. George Washington and John Adams
B. John Adams and Sam Adams
C. John Hancock and Patrick Henry
D. Sam Adams and John Hancock

Legislative	Executive	Judicial
A	enforces the laws	Interprets the laws

16. Which description best finishes the graphic?

A. Conducts elections   **C.** Interprets the laws
B. Makes the laws   **D.** Promotes civic participation

17. Who ordered the Alamo destroyed prior to the events in February 1836?

    A. Sam Houston   **C.** James Fannin
    B. William B. Travis   **D.** Juan Seguin

18. How can Congress override a presidential veto?

    A. Three-fourths vote for state legislatures
    B. They cannot override veto
    C. Two-thirds vote from each house of Congress
    D. Congress must appeal to the Supreme Court

19. Which of the following is defined as providing labor intensive work without the result of a tangible product?

    A. Retail industry   **C.** Manufacturing industry
    B. Agriculture industry   **D.** Service industry

20. Which of the following continents mostly have limited governments?

    A. North America and Africa   **C.** Africa and Australia
    B. North America and Europe   **D.** Asia and South America

21. Which of the following is a difference between the House of Representatives and the Senate?

    A. The senate's representation is based on population of eligible voters
    B. The house of representatives representation is based on population
    C. The senate has the ability to impeach and remove an elected official
    D. The house of representatives has the ability to negotiate and approve treaties

22. Sybil Ludington is best known for being part of which event?

    A. Reloading muskets during the Battle of Saratoga
    B. Spying on Redcoats for General Washington
    C. Making uniforms for the Continental Army
    D. Midnight Ride to warn minutemen of the Redcoats

23. Which country's alliance played the most significant role in the success of the American colonies in the Revolutionary War?

    A. France
    B. Britain

    C. Spain
    D. Mexico

24. In a free enterprise system, _____ makes the decision about what goods and services are produced?

    A. Government
    B. Aristocrats

    C. Individuals
    D. Tradition

25. Which of the following is known as the first written constitution in colonial America?

    A. Mayflower Compact
    B. Fundamental Orders of Connecticut
    C. Virginia Declaration of Rights
    D. Maryland Act of Toleration

26. The Somerset is a British ship mentioned in ___.

    A. Common Sense by Thomas Paine
    B. The Declaration of Independence by Thomas Jefferson
    C. Paul Revere's Ride by Henry Wadsworth Longfellow
    D. The Virginia Resolves by Patrick Henry

27. Which economic activity is defined as the "cultivation of land or ranching of animals"?

    A. Agriculture
    B. Retail

    C. Manufacturing
    D. Service

Proclamation Act		*Declaratory Act*	*Townshend Act*

28. Which of the following acts would fill in the timeline accurately?

    A. Navigation Acts
    B. Intolerable Acts

    C. Stamp Act
    D. Toleration Act

29. The Fredonian Rebellion was the first attempt of Texas secession from Mexico, it began in 1826 in which city?

A. San Antonio   **C.** Austin
B. Houston   **D.** Nacogdoches

- *Members supported independence*
- *Mostly located in New England colonies*
- *Engaged in protests*

30. The list above best refers to which group?

A. Daughters of Liberty   **C.** Sons of Liberty
B. Continental Congress   **D.** Redcoats

COME AND TAKE IT

31. The slogan above is from which battle?

A. Battle of San Jacinto   **C.** Battle of Alamo
B. Battle of Gonzales   **D.** Battle of Goliad

32. Practices that a society uses to provide basic needs and distribution of goods and services refers to _____ institutions.

A. governmental   **C.** economic
B. educational   **D.** religious

33. ____ led the Texan voluntary troops at the first battle of the Texas Revolution.

A. Sam Houston   **C.** John Austin
B. James Fannin   **D.** John Henry Moore
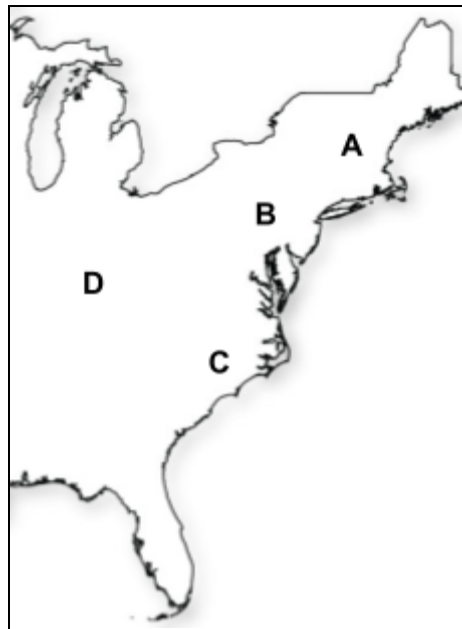
34. Which area located on the map is known for use of subsistence or small farms for individual use?

    A. A   **C.** C

    B. B   **D.** D

"Economic theory that trade generates wealth for the mother country."

35. Which of the following is described above?

    A. Socialism   **C.** Free enterprise

    B. Mercantilism   **D.** Democracy

36. Which Texas Colonel surrendered then was executed at the Battle of Goliad?

    A. Santa Anna   **C.** William B. Travis

    B. Sam Houston   **D.** James Fannin

37. _____ is celebrated as Texas Independence Day.

    A. October 2, 1835   **C.** March 6, 1836

    B. March 2, 1836   **D.** April 21, 1836

38. Which type of government has the qualities such as freedom of speech, protection of human rights, and free elections?

    A. Limited   **C.** Totalitarian

    B. Unlimited   **D.** Monarchy

39. The Quartering Act, Boston Port Act, Administration of Justice Act, and Massachusetts Government Act are all collectively known as?

    A. Townshend Acts   **C.** Intolerable Acts

    B. Declaratory Acts   **D.** Repressive Acts

40. What is the correct order of the major battles during the Texas Revolution?

    A. Alamo, Goliad, Gonzales, San Jacinto

    B. San Jacinto, Alamo, Goliad, Gonzales

    C. Gonzales, San Jacinto, Goliad, Alamo

    D. Gonzales, Alamo, Goliad, San Jacinto

2022-2023
Middle School Virtual Challenge Meet #3
5th/6th Grade Social Studies
Contestant Answer Sheet

CORRECT ANSWER = 3 PTS, INCORRECT ANSWER = (-2) PTS, NO PENALTY FOR LEAVING BLANK

Contestant _____ **School** _____ **Grade** _____

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

2022-2023
Middle School Virtual Challenge Meet #3
5th/6th Grade Social Studies -- ANSWER KEY
CORRECT ANSWER = 3 PTS, INCORRECT ANSWER = (-2) PTS, NO PENALTY FOR LEAVING BLANK

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

THE VIRTUAL MEET EXPERIENCE

PRESENTS

2022-2023

Middle School

Virtual Challenge Meet #3
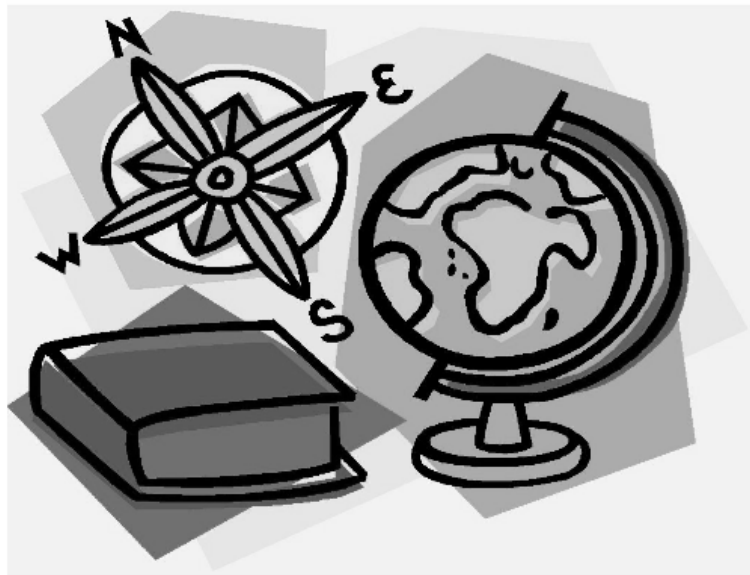
Social Studies 7th/8th

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2022-2023

Middle School Virtual Challenge Meet #3

7th/8th Grade Social Studies

1. The Fredonian Rebellion began in 1826 in Nacogdoches, it was the first attempt at what?

    A. Mexico to grant Texas representation
    B. Colonizing Texas with Californians
    C. Texas secession from Mexico
    D. Guaranteeing the ownership of enslaved persons

> - Profit motivated
> - Freedom of choices
> - Less government control

2. Which of the following would be the best title for the list?

    A. Characteristics of communism
    B. Benefits of free enterprise
    C. Principles of socialism
    D. Disadvantages of a free enterprise

3. Which of the following countries has a command economy?

    A. France   **C.** North Korea
    B. Sweden   **D.** Japan

4. Which of the following battles lasted 18 minutes and was the final battle of the Texas Revolution?

    A. Battle of San Jacinto   **C.** Battle of Alamo
    B. Battle of San Antonio   **D.** Battle of Goliad

5. Who was serving as the president of the United States when Texas won their independence?

    A. Abraham Lincoln   **C.** James K. Polk
    B. John Quincy Adams   **D.** Andrew Jackson

Responsibility	Participation
- Paying taxes - Jury duty - Following laws - A	- Being informed - Donating to campaigns - Running for office - B

6. Which of the following would fit best in letter B on the chart?

   A. Learning about democracy
   B. Being politically active
   C. Attending school
   D. Registering for the selective service

7. Who was the leader of Texan troops at the Alamo, and perished during the battle?

   A. James Fannin
   B. Sam Houston
   C. William B. Travis
   D. Juan Seguin

8. Which of the following acts was passed then repealed by the British Parliament one year later?

   A. Declaratory Act
   B. Intolerable Act
   C. Townshend Act
   D. Stamp Act

9. The _____ claimed the Mexican government made the military superior to civil powers.

   A. Texas Declaration of Independence
   B. Fredonian Rebellion
   C. Law of April 6th
   D. Texas Constitution of 1836

10. Which of the following was known as the "shot heard 'round the world" and began the Revolutionary War?

   A. Battle of Trenton
   B. Battle of Lexington
   C. Battle of Saratoga
   D. Battle of Bunker Hill

11. Who was the second President of the Republic of Texas?

    A. Mirabeau Lamar   **C.** Juan Seguin

    B. Sam Houston   **D.** Stephen F. Austin

12. Which of the following is a description of an indirect democracy?

    A. Citizens vote on issues with elected representatives

    B. Citizens personally vote on issues

    C. Citizens follow leader that decides issues

    D. Citizens elect a representative to vote on issues

13. The first document which limited the monarchy's power in Britain was the _____.

    A. English Bill of Rights   **C.** Declaration of Independence

    B. Magna Carta   **D.** Mayflower Compact

14. This group governs school districts while making financial and educational decisions.

    A. Board of Trustees   **C.** Texas Education Agency

    B. State Board of Education   **D.** Superintendent

15. In "From Virginia to Texas, 1835," how were commissioners from New Orleans helping the war effort?

    A. They sent troops to fight

    B. They negotiated the peace treaty

    C. They sent monetary aid and loans

    D. They negotiated annexation to the United States

"Article I. SEC. 1. The powers of this Government shall be divided into three departments, viz: Legislative, Executive and Judicial, which shall remain forever separate and distinct."

16. The statement describes which major principle of the Texas Constitution?

    A. Checks and balances   **C.** Federalism
    B. Popular sovereignty   **D.** Separation of Powers

17. ____ is the leader of the Texas House of Representatives and ____ is the leader of the Texas Senate.

    A. Governor; Speaker of the House
    B. Chief Justice; Attorney General
    C. Speaker of the House; Lieutenant Governor
    D. Lieutenant Governor; Attorney General

18. On May 14, Santa Anna signed a peace treaty with the Texas Republic that contained public and secret sections. What was the name of the treaty?

    A. Treaty of Ghent   **C.** Treaty of Bexar
    B. Treaty of Guadalupe-Hidalgo   **D.** Treaty of Velasco

19. Who was the brother-in-law of Santa Anna that served as a Mexican general during 1835 against the Texian army?

    A. Jose de Urrea   **C.** Martin Perfecto de Cos
    B. Jose Antonio Mexia   **D.** Pancho Villa

20. Which of the following was hired by the Continental Army as a privateer and famously told the British navy, "I have not yet begun to fight!"?

    A. Nathan Hale   **C.** Marquis de Lafayette
    B. John Paul Jones   **D.** Paul Revere

21. Who was born in Stonewall, Texas and became president of the United States in the 1960s?

A. George W. Bush

B. Franklin Roosevelt

C. Richard Nixon

D. Lyndon B. Johnson

22. Who was the first governor of Texas that was born in Texas?

A. James Hogg

B. Rick Perry

C. Greg Abbott

D. Sam Houston

23. In 1783, General Cornwallis was surrounded and bombarded for over two weeks before surrendering. What was the name of this final battle of the revolution?

A. Battle of Trenton

B. Battle of Saratoga

C. Battle of Yorktown

D. Battle of Bunker Hill

24. Who was the French advisor that was named Major General in the Continental Army and became a good friend to George Washington?

A. Jean Rochambeau

B. Marquis de Lafayette

C. Pierre Charles L'Enfant

D. Robert La Salle

25. Who was the author of the Declaration of Independence in 1776?

A. Thomas Jefferson

B. John Adams

C. Benjamin Franklin

D. Patrick Henry

26. Which of the following is a definition of an economy based on socialism?

   A. Total government control
   B. Government control on some industries
   C. No government control on prices and distribution
   D. Zero government control on supply and demand

27. Which battle began the Texas Revolutionary War on October 2, 1835?

   A. Battle of San Jacinto   **C.** Battle of Gonzales
   B. Battle of Alamo   **D.** Battle of Goliad

28. Which group was granted writs of assistance to search and seize items while also being quartered in colonial homes?

   A. Hessians   **C.** Patriots
   B. Loyalists   **D.** Redcoats

   I.   *"He has kept among us, in times of peace, Standing Armies without the Consent of our legislatures."*
   II.   *"He has plundered our seas, ravaged our Coasts, burnt our towns, and destroyed the lives of our people."*
   III. *"For depriving us in many cases, of the benefits of Trial by Jury."*
   IV.   *"For taking away our Charters, abolishing our most valuable Laws, and altering fundamentally the Forms of our Governments."*

29. Which of the following quotes described the grievance against the absolute power of the king?

   A. I.   **C.** III.
   B. II.   **D.** IV.

30. Which of the following is an example of a characteristic of a limited government?

   A. Limited number of political parties
   B. Freedom of speech and religion
   C. Leadership limited to one person
   D. Faster and more efficient decisions

Foundational Document	Significance
House of Burgesses	First representative legislative assembly
Fundamental Orders of Connecticut	A
Mayflower Compact	Established a general assembly and structure to follow laws
Toleration Act	Granted limited freedom of religion

31. Which of the following would complete the chart above?

    A. Granted royal colonial powers to King
    B. First written constitution in the colonies
    C. Granted equality and land rights to Native Americans
    D. Established a general assembly

32. Which of the following was one of the five people to die during the Boston Massacre?

    A. Paul Revere   **C.** Crispus Attucks
    B. Samuel Adams   **D.** Nathan Hale

I. "He has kept among us, in times of peace, Standing Armies without the Consent of our legislatures."
II. "For cutting off our Trade with all parts of the world."
III. "For depriving us in many cases of the benefits of Trial by Jury."
IV. "For taking away our Charters, abolishing our most valuable Laws, and altering fundamentally the Forms of our Governments."

33. Which of the following quotes describes the grievance against the theory of mercantilism and the Navigation Acts?

    A. I.   **C.** III.
    B. II.   **D.** IV.

34. Following the Battle of Saratoga, which country became a significant ally of the Patriots?

    A. Spain   **C.** Canada
    B. France   **D.** The Netherlands

35. General George Washington was the commander of which group?

    A. Minutemen   **C.** Continental Army
    B. Red coats   **D.** Hessians

36. Dictatorship, totalitarianism, and communism are what type of government?

    A. Unlimited government   **C.** Direct democracy
    B. Limited government   **D.** Constitutional monarchy

37. Which of the following was a main cause of the Texas revolution?
    A. Wanting to abolish slavery
    B. Wanting more protection from Native Americans
    C. Wanting representation in the Mexican government
    D. Wanting protection from American settlers

38. "Come and take it" is the slogan for which battle in the Texas Revolution?

    A. Battle of Gonzales   **C.** Battle of Alamo
    B. Battle of San Jacinto   **D.** Battle of Goliad

39. Following the French and Indian War, the British government passed many new laws and ordinances in order to–

    A. Increase parliament stipends
    B. Pay for infrastructure and expansion
    C. Invest the king's resources
    D. Repay debts from war

40. Based on the March 16th entry in "From Virginia to Texas, 1835," who was elected as Secretary of War?

    A. David G. Burnet   **C.** Samuel Carson
    B. Thomas Jefferson Rusk   **D.** David Thomas

2022-2023
Middle School Virtual Challenge Meet #3
7th/8th Grade Social Studies
Contestant Answer Sheet

CORRECT ANSWER = 3 PTS, INCORRECT ANSWER = (-2) PTS, NO PENALTY FOR LEAVING BLANK

Contestant _____ **School** _____ **Grade** _____

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

2022-2023
Middle School Virtual Challenge Meet #3
7th/8th Grade Social Studies -- ANSWER KEY
CORRECT ANSWER = 3 PTS, INCORRECT ANSWER = (-2) PTS, NO PENALTY FOR LEAVING BLANK

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

2022-2023
MIDDLE SCHOOL
VIRTUAL CHALLENGE MEET #3

SPELLING - 3RD AND 4TH GRADE
PRONOUNCER/VERIFIER LIST

PRONOUNCER: Pronounce the words at the approximate rate of five per minute. A time indication is given after every five words.

Definitions should be given by the pronouncer for words which are marked with an asterisk*. Abbreviated definitions are included for all words. Spaces are provided for sentences should you choose to use them; however, sentences are not required by UIL rules.

VERIFIER: Please listen carefully to make sure the words the pronouncer calls are clearly understood. Definitions should be given by the pronouncer for words which are marked with an asterisk*. If there are words which should be pronounced again, notify the pronouncer after all the words have been called. Do not interrupt the pronouncer.

1. **filmstrip** - a medium for pictures or movies

 Sentence_____

2. **ability** - the skill or talent required to accomplish a task

 Sentence_____

3. ***wisdom** - knowledge; judgment; insight

 Sentence_____

4. **gracious** - kind; cordial

 Sentence_____

5. **inject** - to give a shot; to add

 Sentence_____

<div align="center">

1 minute

</div>

6. **request** - (n.) a plea or an appeal | (v.) to ask for; to appeal

 Sentence_____

7. **priceless** - so valuable that a monetary amount cannot be set; strange or funny

 Sentence_____

8. **omission** - something which is left out; the act of leaving out; the state of being left out

 Sentence_____

9. **lavender** - a kind of plant; the leaves and blossoms of this plant; a color of pale purple

 Sentence_____

10. **adverb** - the part of speech used to modify the action word of the sentence

 Sentence_____

<div align="center">

2 minutes

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11.   **glider** - a type of aircraft that lacks an engine; a type of porch chair that can sway back and forth

Sentence_____

12.   **pasture** - (n.) grasses used for feeding grazing animals; grassland; grazing ground | (v.) to graze

Sentence_____

13.   **oppose** - to be against something; to resist

Sentence_____

14.   **entry** - an access or opening such as a doorway; a written record in a book or list; a person or submission in a contest

Sentence_____

15.   **sardine** - a kind of fish

Sentence_____

3 minutes

16.   **irrigate** - to supply water to an area

Sentence_____

17.   **roomy** - having ample space; spacious

Sentence_____

18.   **unit** - a single or definite quantity; a single part of a whole; an assembly having one function; a section of a course in school

Sentence_____

19.   **ointment** - a greasy substance to be used on the skin to ease pain

Sentence_____

20.   **composure** - poise; self-control; equanimity

Sentence_____

4 minutes

21.   **gravel** - mixture of rocks and pebbles

Sentence_____

22.   **onion** - a vegetable

Sentence_____

23.   **extreme** - (adj.) out of the ordinary; notable | (n.) the maximum or utmost

Sentence_____

24.   **vacancy** - something such as a hotel room which is empty; empty space; the state of being empty

Sentence_____

25.   **belittle** - to give the impression that someone or something is unimportant

Sentence_____

5 minutes

26.   **instep** - part of the foot

Sentence_____

27.   **release** - (n.) an announcement; liberation | (v.) to set free

Sentence_____

28.   **cling** - to adhere to tightly; to remain very close

Sentence_____

29.   **develop** - to make details become clear; to build on or improve; to create or produce

Sentence_____

30.   **remarkable** - likely to be seen as uncommon

Sentence_____

6 minutes

31. **badger** - (n.) a type of animal | (v.) to harass

Sentence_____

32. **survey** - (n.) an assessment | (v.) to examine

Sentence_____

33. ***fowl** - a type of bird

Sentence_____

34. **scrawny** - very thin

Sentence_____

35. **compel** - to pressure someone into doing something

Sentence_____

<div align="center">

7 minutes

</div>

36. **twiddle** - to move or fidget with something in a nervous or aimless way

Sentence_____

37. **neither** - (pronoun) not one person or thing and also not a different person or thing | (conj.) not this one or that one | (adj.) not any one of two persons or things

Sentence_____

38. **engrave** - to cut something such as letters into a hard surface; to cut such letters into a surface that is then used for printing; to print from a surface which has had letters cut into it; to impress or set deeply

Sentence_____

39. **icing** - a sweet substance put on the top and sides of a cake

Sentence_____

40. **convenient** - useful, helpful, or opportune; nearby or easily accessible

Sentence_____

<div align="center">

8 minutes

</div>

41.   **gentlefolk** - those who belong to a good family

Sentence_____

42.   **portray** - to draw or paint a picture of; to picture in words; to act the part of

Sentence_____

43.   **faithful** - loyal or steadfast

Sentence_____

44.   **indent** - to make a notch on an edge; to start a line or body of text several spaces from the main margin

Sentence_____

45.   **varied** - (adj.) diverse | (v.) (past tense) to change or alter

Sentence_____

9 minutes

46.   **melodic** - tuneful; sweet sounding

Sentence_____

47.   **treasure** - (n.) wealth; something that is valued or cherished | (v.) to cherish

Sentence_____

48.   **pioneer** - n. one of the first to take part in something new | v. to begin something new and set the example

Sentence_____

49.   **impair** - to harm or weaken

Sentence_____

50.   **overtime** - more hours of work than normal in a day or week; the money paid for this extra work

Sentence_____

10 minutes

1. **radio** - a device that receives signals in the form of electromagnetic waves

    Sentence_____

2. **eliminate** - to remove or get rid of

    Sentence_____

3. **secretary** - a person who takes care of records for a business; a government official; a kind of desk that has a place for books

    Sentence_____

4. **annual** - describing something that occurs once a year

    Sentence_____

5. **trait** - characteristic; feature

    Sentence_____

1 minute

6. **straight** - (adj.) extending in one direction without curving or bending; linear; vertical; direct or candid | (adv.) in a direct path or line without curves; in a direct manner

    Sentence_____

7. **keystroke** - the act of pushing one of the levers on a typewriter or computer

    Sentence_____

8. **curious** - inquisitive or interested; odd or strange

    Sentence_____

9. **dainty** - (n.) a delicacy or something delicious | (adj.) delicious; very pretty or beautiful; particular or fastidious

    Sentence_____

10. **broaden** - to enlarge or make wider

    Sentence_____

2 minutes

11. **xerography** - a kind of photocopying process

    Sentence_____

12. **salmon** - a kind of fish

    Sentence_____

13. **February** - the second of twelve months in a year

    Sentence_____

14. **answer** - (n.) a reply; a solution to a problem or something troublesome | (v.) to give a reply or response

    Sentence_____

15. **glossy** - having a smooth shine on the surface

    Sentence_____

3 minutes

1. filmstrip
2. ability
3. *wisdom
4. gracious
5. inject
6. request
7. priceless
8. omission
9. lavender
10. adverb
11. glider
12. pasture
13. oppose
14. entry
15. sardine

16. irrigate
17. roomy
18. unit
19. ointment
20. composure
21. gravel
22. onion
23. extreme
24. vacancy
25. belittle
26. instep
27. release
28. cling
29. develop
30. remarkable

31. badger

32. survey

33. *fowl

34. scrawny

35. compel

36. twiddle

37. neither

38. engrave

39. icing

40. convenient

41. gentlefolk

42. portray

43. faithful

44. indent

45. varied

46. melodic

47. treasure

48. pioneer

49. impair

50. overtime

TIE BREAKER GRADER'S KEY   3rd & 4th Grade

1.   radio

2.   eliminate

3.   secretary

4.   annual

5.   trait

6.   straight

7.   keystroke

8.   curious

9.   dainty

10.   broaden

11.   xerography

12.   salmon

13.   February

14.   answer

15.   glossy

MS VCM - 3RD/4TH SPELLING - ANSWER PAGE   STUDENT _____

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MS VCM - 3RD/4TH SPELLING - ANSWER PAGE   STUDENT _____

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MS VCM - 3RD/4TH SPELLING - <u>TIE BREAKER</u> - ANSWER PAGE

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2022-2023
MIDDLE SCHOOL
VIRTUAL CHALLENGE MEET #3

SPELLING - 5TH AND 6TH GRADE
PRONOUNCER/VERIFIER LIST

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1.   **humbug** - fraud; nonsense

Sentence_____

2.   **gladiator** - in ancient Rome, a person who entered a ring and fought to entertain a crowd; a person who engages in a controversy or fight

Sentence_____

3.   ***Kleenex** - a trademark for a kind of tissue

Sentence_____

4.   **desperate** - without hope; reckless

Sentence_____

5.   **specific** - related or restricted to a certain type; clearly stated

Sentence_____

1 minute

6.   **appliance** - a device or an attachment; something such as a stove, refrigerator, or an iron

Sentence_____

7.   **momentary** - lasting for only a very brief period of time

Sentence_____

8.   **narcotic** - a kind of drug

Sentence_____

9.   **escapade** - a prank

Sentence_____

10.   **minimize** - to make very small; to put a low estimate on something; to belittle

Sentence_____

2 minutes

11.　　**reasonable** - moderate; low-priced; intelligent

　　　　Sentence_____

12.　　**injunction** - an order, issued by a court, which disallows some kind of activity

　　　　Sentence_____

13.　　**roughage** - food such as bran

　　　　Sentence_____

14.　　**greengrocer** - an individual who sells fruits and vegetables to the public

　　　　Sentence_____

15.　　**nigh** - almost here; not far away

　　　　Sentence_____

3 minutes

16.　　**multitude** - a large crowd or throng

　　　　Sentence_____

17.　　**theory** - a concept that provides an explanation for something

　　　　Sentence_____

18.　　**Kabuki** - a kind of Japanese drama

　　　　Sentence_____

19.　　**typify** - to serve as an example; to symbolize or represent

　　　　Sentence_____

20.　　**bureau** - a chest of drawers; a desk; an agency; an office which provides specific information

　　　　Sentence_____

4 minutes

21. **fast-forward** - to cause a rapid advancement

Sentence_____

22. **demolish** - to tear down; to break into pieces

Sentence_____

23. **ominous** - foreboding evil or misfortune

Sentence_____

24. **debug** - to correct by removing mistakes

Sentence_____

25. **blamable** - guilty of an action or being at fault

Sentence_____

5 minutes

26. **veneer** - (n.) a thin layer of wood attached to another piece of wood; the layers of wood that are glued together to make plywood; a façade | (v.) to apply such a layer; to glue wood together to make plywood; to hide something with an outward show that is attractive

Sentence_____

27. **receipt** - acceptance of something; a document that provides proof of purchase

Sentence_____

28. **syllabicate** - to divide words into units of pronunciation

Sentence_____

29. **humidity** - moisture or dampness

Sentence_____

30. **engagement** - a promise to be somewhere at a certain time; a promise to marry; the state of being in a battle

Sentence_____

6 minutes

31. **botanical** - having to do with or made from multicellular organisms that have leaves and grow from the ground

Sentence_____

32. **separate** - (v.) to keep apart; distinguish; sort | (adj.) kept apart; individual | (n.) a blouse or jacket designed to be worn with more than one skirt, etc.

Sentence_____

33. **mercenary** - (adj.) driven by a desire to gain money; employed to fight in a foreign army | (n.) a hireling; a soldier who is hired to fight

Sentence_____

34. **unbearable** - such that it cannot be endured

Sentence_____

35. **eagerness** - the state of being enthusiastic or anxious to begin

Sentence_____

7 minutes

36. **tarantula** - a kind of spider

Sentence_____

37. **quartet, quartette** - a musical composition which is written to be sung by four or played on four instruments; one of four singers in a group; a group of four things

Sentence_____

38. **licorice** - a kind of plant; the root of this plant; a kind of candy

Sentence_____

39. **sensational** - great, excellent

Sentence_____

40. **xylophone** - a kind of musical instrument

Sentence_____

8 minutes

41. **millionaire** - a wealthy person

Sentence_____

42. **precisely** - in an exact manner

Sentence_____

43. **wingspread** - the amount of space between the tips of the extended appendages that allow birds to fly

Sentence_____

44. **larceny** - theft

Sentence_____

45. **unbalanced** - not in a state of evenness

Sentence_____

9 minutes

46. **incision** - a cut, especially one made during surgery

Sentence_____

47. **comedian** - a humorous performer

Sentence_____

48. **gradually** - in a manner of moving or changing by slight steps or degrees

Sentence_____

49. **laminate** - (v.) to seal with a protective substance | (n.) a protective substance

Sentence_____

50. **triangular** - shaped like a three-sided figure

Sentence_____

10 minutes

51.   **lounging** - to loaf; to sit or stand in a lazy manner

Sentence_____

52.   **kelp** - a kind of seaweed

Sentence_____

53.   **similarity** - the state of being like something else

Sentence_____

54.   **continental drift** - the movement believed to be made by large land masses

Sentence_____

55.   **dimension** - a measurement; scope or range

Sentence_____

<div align="center">

11 minutes

</div>

56.   **hoopskirt** - a kind of garment worn by a woman

Sentence_____

57.   **alliance** - the state of being connected; a union; a treaty or an agreement between countries

Sentence_____

58.   **begrudge** - to do in a reluctant manner

Sentence_____

59.   **lobbyist** - one who influences public officials

Sentence_____

60.   **antibiotic** - a substance used to treat a disease

Sentence_____

<div align="center">

12 minutes

</div>

61. **sectional** - related to a part or division

Sentence_____

62. **obeying** - to do what has been commanded

Sentence_____

63. **extremity** - the farthest point; a hand or a foot; an intense degree

Sentence_____

64. **orchestrate** - to arrange music; to plan or arrange events or elements in order to achieve a certain outcome or effect

Sentence_____

65. **hoist** - to raise or lift

Sentence_____

<div align="center">**13 minutes**</div>

66. **immaterial** - not significant

Sentence_____

67. **delightful** - very pleasing

Sentence_____

68. **inherent** - existing as an essential part or feature

Sentence_____

69. **speculation** - musing or thinking about what will happen; playing the market

Sentence_____

70. **penitence** - regret for the things one has done wrong

Sentence_____

<div align="center">**14 minutes**</div>

71. **dreadful** - unpleasant; shocking

Sentence_____

72. **fertilizer** - a substance used to make plants grow and be more productive

Sentence_____

73. **accentuate** - to stress or emphasize

Sentence_____

74. **benefit** - (n.) a useful aid; money paid, usually through an insurance plan, covering events such as death, unemployment, or retirement; a fundraising event | (v.) to be useful; to receive aid

Sentence_____

75. **personalize** - to make custom for an individual

Sentence_____

15 minutes

76. **interspace** - (n.) an area between objects | (v.) to fill or occupy the area between objects

Sentence_____

77. **fictitious** - made-up

Sentence_____

78. **woozy** - somewhat weak, light-headed, or sick

Sentence_____

79. **zestfully** - to do with great enthusiasm and energy

Sentence_____

80. **scoundrel** - a mean person

Sentence_____

16 minutes

1. **eulogy** - a speech in honor of a deceased person

   Sentence_____

2. **botulism** - a kind of food poisoning

   Sentence_____

3. **benignant** - kind and gracious

   Sentence_____

4. **miniature** - (n.) something that is unusually small | (adj.) very small

   Sentence_____

5. **kerchief** - a square cloth that can be worn on the head or around the neck

   Sentence_____

<div align="center">

1 minute

</div>

6. **poignant** - painful; sharp or heartbreaking; touching or moving

   Sentence_____

7. **scarcely** - by a narrow margin; not quite

   Sentence_____

8. **allegation** - an avowal; the act of avowing; a statement which asserts that something is true when it really isn't; Law. that which must be proved in court

   Sentence_____

9. **imitative** - describing something that is copied

   Sentence_____

10. **mawkish** - having a flat or stale taste; overly sentimental

   Sentence_____

<div align="center">

2 minutes

</div>

11.   **refrigerate** - to keep something cold

Sentence_____

12.   **notoriety** - ill fame

Sentence_____

13.   **inexcusable** - such that it cannot be justified or defended

Sentence_____

14.   **furlough** - (n.) a leave of absence | (v.) to grant a leave of absence or to relieve someone of his/her duties

Sentence_____

15.   **ecstatic** - thrilled or excited

Sentence_____

3 minutes

16.   **ornery** - ill-natured; difficult to deal with

Sentence_____

17.   **enormity** - the vastness of something considered to be morally wrong or bad; hugeness

Sentence_____

18.   **abnormality** - the state of being irregular

Sentence_____

19.   **prevailing** - such that it has force or that it occurs more often

Sentence_____

20.   **nuclear** - describing the center of an atom or the power that is supplied by it

Sentence_____

4 minutes

1. humbug
2. gladiator
3. *Kleenex
4. desperate
5. specific
6. appliance
7. momentary
8. narcotic
9. escapade
10. minimize
11. reasonable
12. injunction
13. roughage
14. greengrocer
15. nigh

16. multitude
17. theory
18. Kabuki
19. typify
20. bureau
21. fast-forward
22. demolish
23. ominous
24. debug
25. blamable
26. veneer
27. receipt
28. syllabicate
29. humidity
30. engagement

31.	botanical	46.	incision
32.	separate	47.	comedian
33.	mercenary	48.	gradually
34.	unbearable	49.	laminate
35.	eagerness	50.	triangular
36.	tarantula	51.	lounging
37.	quartet, quartette	52.	kelp
38.	licorice	53.	similarity
39.	sensational	54.	continental drift
40.	xylophone	55.	dimension
41.	millionaire	56.	hoopskirt
42.	precisely	57.	alliance
43.	wingspread	58.	begrudge
44.	larceny	59.	lobbyist
45.	unbalanced	60.	antibiotic

61.   sectional

62.   obeying

63.   extremity

64.   orchestrate

65.   hoist

66.   immaterial

67.   delightful

68.   inherent

69.   speculation

70.   penitence

71.   dreadful

72.   fertilizer

73.   accentuate

74.   benefit

75.   personalize

76.   interspace

77.   fictitious

78.   woozy

79.   zestfully

80.   scoundrel

TIE BREAKER GRADER'S KEY   **5th & 6th Grade**

1. eulogy

2. botulism

3. benignant

4. miniature

5. kerchief

6. poignant

7. scarcely

8. allegation

9. imitative

10. mawkish

11. refrigerate

12. notoriety

13. inexcusable

14. furlough

15. ecstatic

16. ornery

17. enormity

18. abnormality

19. prevailing

20. nuclear

MS VCM - 5TH/6TH SPELLING - ANSWER PAGE   **STUDENT _____**

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MS VCM - 5TH/6TH SPELLING - TIEBREAKER ANSWER PAGE

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2022-2023
MIDDLE SCHOOL
VIRTUAL CHALLENGE MEET #3

SPELLING - 7TH AND 8TH GRADE
PRONOUNCER/VERIFIER LIST

PRONOUNCER: Pronounce the words at the approximate rate of five per minute. A time indication is given after every five words.

Definitions should be given by the pronouncer for words which are marked with an asterisk*. Abbreviated definitions are included for all words. Spaces are provided for sentences should you choose to use them; however, sentences are not required by UIL rules.

VERIFIER: Please listen carefully to make sure the words the pronouncer calls are clearly understood. Definitions should be given by the pronouncer for words which are marked with an asterisk*. If there are words which should be pronounced again, notify the pronouncer after all the words have been called. Do not interrupt the pronouncer.

1.   **oracle** - a prophet; a prophecy

      Sentence_____

2.   **inclination** - a fondness for something; an act of bending; a slant; a slope

      Sentence_____

3.   **facile** - done easily; fluent

      Sentence_____

4.   **global warming** - an increase in the earth's temperature believed by some to be caused by air
      pollution

      Sentence_____

5.   **cloister** - (n.) a walkway which is covered; a monastery or convent; the life of those living in a
      convent; a very quiet and peaceful place | (v.) to seclude

      Sentence_____

1 minute

6.   **boisterous** - rowdy; spirited; violent

      Sentence_____

7.   **frijole** - a kind of bean often used in Mexican dishes

      Sentence_____

8.   **aerobatics** - a system involving exercises

      Sentence_____

9.   **immortality** - being endless; lasting fame

      Sentence_____

10.   **enthusiasm** - eagerness or excitement

      Sentence_____

2 minutes

11.   **mournfully** - in a manner that expresses sorrow

Sentence_____

12.   **trowel** - (n.) a small tool | (v.) to use such a tool

Sentence_____

13.   **percussionist** - a person who plays an instrument such as a drum or cymbal

Sentence_____

14.   **cryogenics** - a branch of physics related to very low temperatures

Sentence_____

15.   **kung fu** - a method of self-defense that originated in China

Sentence_____

3 minutes

16.   **hundredth** - one part of something that has 100 parts

Sentence_____

17.   **stupendous** - amazing; huge

Sentence_____

18.   **posthumous** - born after a father's death; published after an author's death; happening after one's death

Sentence_____

19.   **advisory** - (adj.) empowered to give counsel or guidance; having to do with or containing guidance | (n.) a report which gives a warning

Sentence_____

20.   **commercialize** - to use and promote for profit

Sentence_____

4 minutes

21.   **juror** - a member of a group of people assembled to determine the guilt or innocence of someone accused of a crime

Sentence_____

22.   ***Sirius** - a star which is in the constellation Canis Major

Sentence_____

23.   **inevitable** - such that something could not be avoided or predicted

Sentence_____

24.   **emphysema** - a condition affecting the lungs

Sentence_____

25.   **resuscitate** - to bring back from death; to breathe life into

Sentence_____

5 minutes

26.   **vociferate** - to yell or cry out

Sentence_____

27.   **predecessor** - one who comes before another

Sentence_____

28.   **taskmaster** - one who assigns chores or duties to others

Sentence_____

29.   **quartzite** - a kind of rock

Sentence_____

30.   **grievously** - in a very flagrant or dire manner

Sentence_____

6 minutes

31. **pulmonary** - having to do with or related to the lungs

Sentence_____

32. **synthesizer** - one that combines various elements to form something new; Music. a kind of instrument

Sentence_____

33. **acknowledge** - to admit; to confess

Sentence_____

34. **umbrage** - resentment; offense

Sentence_____

35. **humidor** - a case used to store cigars, etc.

Sentence_____

7 minutes

36. **tenderhearted** - kind or compassionate

Sentence_____

37. **rhombus** - a kind of parallelogram

Sentence_____

38. **gnomon** - something that produces a shadow that is used as an indicator; a geometric figure

Sentence_____

39. **nostalgia** - a yearning for something which is in the past

Sentence_____

40. **quarterstaff** - a kind of weapon used in ages past

Sentence_____

8 minutes

41. **neutralization** - the act of nullifying or making ineffective; eliminating electrical charge; chemically changing a solution so that it is neither acidic nor basic

    Sentence_____

42. **facetious** - in a joking manner; flippant

    Sentence_____

43. **subscription** - a purchase of something such as a newspaper or magazine for a certain period of time

    Sentence_____

44. **manipulator** - one who schemes; one who uses something skillfully

    Sentence_____

45. **wizen** - to become wrinkled, often because of aging

    Sentence_____

9 minutes

46. **admonition** - reproof; a warning

    Sentence_____

47. **salutatorian** - the graduating student who has the second highest grade average

    Sentence_____

48. **portentous** - such that it is a warning; remarkable

    Sentence_____

49. **rogue** - a scoundrel

    Sentence_____

50. **et cetera** - and so forth

    Sentence_____

10 minutes

51. **good-natured** - having a cheerful disposition

Sentence_____

52. **intermediary** - happening or being in the middle; a kind of middleman or go-between

Sentence_____

53. **camouflage** - the act of hiding or disguising something

Sentence_____

54. **ocher, ochre** - an iron ore; a color

Sentence_____

55. **jack-in-the-box** - a small container from which a figure is projected when the lid is opened

Sentence_____

11 minutes

56. **antagonism** - ill will; hatred; being opposed to something

Sentence_____

57. ***deterrence** - (singular noun) the act of preventing, blocking, or obstructing; the steps taken by one nation to prevent aggression by another nation

Sentence_____

58. **lousiest** - most awful; most useless

Sentence_____

59. **hypnotist** - one who has the ability to put people in a trancelike state

Sentence_____

60. **waggery** - mischievousness; a joke

Sentence_____

12 minutes

61. **psychology** - a science involving the study of the mind

Sentence_____

62. **mischievous** - annoying; playful or teasing; troublesome; causing damage or harm

Sentence_____

63. **untenable** - such that it cannot be upheld against an opposition; such that it cannot be occupied

Sentence_____

64. **trellis** - a frame which supports climbing plants

Sentence_____

65. **witticism** - an amusing remark

Sentence_____

13 minutes

66. **maestro** - someone who is accomplished in an art, especially music

Sentence_____

67. **verbatim** - word for word

Sentence_____

68. **equivocal** - having more than one meaning; unclear or doubtful; suspicious

Sentence_____

69. **totalitarian** - having to do with a system of government in which the people are completely controlled by the government

Sentence_____

70. **discourtesy** - behavior that is rude; an act that is rude

Sentence_____

14 minutes

71. **no-man's-land** - an area that is unoccupied between two warring armies; an area that is uncertain or ambiguous

Sentence_____

72. **superlative** - (adj.) having to do with a modifier which shows the highest or lowest degree; better than something else | (n.) the highest degree of something; something which is the highest

Sentence_____

73. **vexation** - the state of being annoyed; annoyance

Sentence_____

74. **nonbusiness** - not related to a company

Sentence_____

75. **unintentional** - not deliberate

Sentence_____

15 minutes

76. **barnacle** - a kind of shellfish which one often finds on the bottoms of boats

Sentence_____

77. **lean-to** - (adj.) having a single slope; a structure that might be classified as a shack or shed

Sentence_____

78. **pomegranate** - a kind of fruit or the tree which produces the fruit

Sentence_____

79. **homicidal** - murderous

Sentence_____

80. **demerit** - a failing or fault; a negative score on someone's record

Sentence_____

16 minutes

81. **tableau** - a description which is vivid; a scene which is striking; a point during a scene when the actors on stage cease movement and then resume action

Sentence_____

82. **chambray** - a kind of fabric

Sentence_____

83. **rhinoceros** - a kind of animal

Sentence_____

84. **beleaguer** - to harass; to encircle with troops

Sentence_____

85. **kerosene, kerosine** - an oil

Sentence_____

17 minutes

86. **guacamole** - a dish made with avocado

Sentence_____

87. **respiration** - the act of breathing

Sentence_____

88. **nicotine** - a substance which is used as a pesticide and is found in tobacco

Sentence_____

89. **incinerate** - to burn

Sentence_____

90. **turpentine** - oil and resin mixture

Sentence_____

18 minutes

91. **neckerchief** - a kind of scarf

Sentence_____

92. **regalia** - items such as crowns and scepters which represent royalty; the rights of those who are members of the royalty; finery

Sentence_____

93. **éclair** - a kind of pastry

Sentence_____

94. **fusillade** - (n.) the simultaneous, rapid firing of a number of guns; a barrage | (v.) to attack with such rapid firing

Sentence_____

95. **barrier reef** - a ridge of coral located parallel to a shoreline

Sentence_____

19 minutes

96. **crevasse** - (n.) a chasm; a narrow break in a dike | (v.) to develop a chasm or narrow break

Sentence_____

97. **impalpable** - that which cannot be felt by touch; vague or obscure

Sentence_____

98. **centenarian** - a person who has lived for one hundred years or more

Sentence_____

99. **destructible** - such that it can be ruined or done away with

Sentence_____

100. **singularity** - the characteristic or state of being distinct or individual

Sentence_____

20 minutes

101.   **quoit** - a game or the items used to play the game

Sentence_____

102.   **Victorian** - having to do with a period of time in English history

Sentence_____

103.   **operetta** - a play which includes singing, dancing and speaking

Sentence_____

104.   **holistic** - all-inclusive or complete

Sentence_____

105.   **Grecian** - a person who is born in or lives in a certain European country; the language spoken by the people of this country

Sentence_____

<center>**21 minutes**</center>

106.   ***imminent** - about to happen

Sentence_____

107.   **terminus** - a final aim or goal; something marking a boundary; the beginning or ending of a travel route; a town at either the beginning or ending of such a route

Sentence_____

108.   **indemnity** - coverage for possible damages

Sentence_____

109.   **humdrum** - monotonous or dull

Sentence_____

110.   **stalemate** - (n.) a deadlock; (Games) a position in chess | (v.) to bring to a deadlock

Sentence_____

<center>**22 minutes**</center>

1. **jaundice** - (n.) a yellowish discoloration which indicates disease | (v.) to affect with such discoloration; to affect with envy or jealousy

   Sentence_____

2. **espionage** - the practice of gathering secret information or of using an agent to gather such information

   Sentence_____

3. **indigenous** - native or growing naturally in a region

   Sentence_____

4. **agglutinate** - to adhere or paste together; to bond or unite

   Sentence_____

5. **hemorrhage** - (n.) a loss of a great amount of blood usually from an injury; the loss of something considered valuable | (v.) to bleed in a heavy, uncontrollable manner; to lose something in a rapid manner

   Sentence_____

1 minute

6. **nonresistant** - passive or yielding

   Sentence_____

7. **fuchsia** - a kind of shrub; a color

   Sentence_____

8. **superabundant** - excessive

   Sentence_____

9. **anticipation** - an act of foreseeing that something might happen and preventing it from happening; the act of expecting something; hope or hopefulness

   Sentence_____

10.   **parallelism** - the state of being even; being like something else | (grammar) having the same kind of structure

Sentence_____

2 minutes

11.   **outmaneuver** - to defeat an opponent by skillful planning; to surpass in the ability to move quickly and adroitly

Sentence_____

12.   **instigate** - to provoke

Sentence_____

13.   **aphorism** - a proverb; a statement presenting a general truth

Sentence_____

14.   **moccasin** - a kind of slipper; a kind of water snake

Sentence_____

15.   **anesthetist** - a person who administers the agent which deadens an area of the body or induces sleep prior to surgery

Sentence_____

3 minutes

16.   **posterity** - future generations

Sentence_____

17.   **utilitarian** - having to do with usefulness; interested in usefulness rather than beauty

Sentence_____

18.   **memento** - a souvenir

Sentence_____

19. **unconscionable** - corrupt; excessive

Sentence_____

20. **kaleidoscope** - a device into which one can look and see an ever changing pattern of glass or other things; a scene that changes

Sentence_____

<div align="center">

4 minutes

</div>

21. **nuptial** - (adj.) having to do with marriage | (n.) a marriage

Sentence_____

22. **oblivion** - darkness; amnesia

Sentence_____

23. **enormously** - such that it is immense, huge, or vast

Sentence_____

24. **magisterial** - in an authoritative way

Sentence_____

25. **sauerkraut** - cabbage which has been shredded, salted, and fermented

Sentence_____

<div align="center">

5 minutes

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26. **chivalry** - the custom or conduct of knights

Sentence_____

27. **encephalitis** - inflammation of the brain

Sentence_____

28. **valedictorian** - the student who has the highest grade point average in the graduating class

Sentence_____

29.   **wainscot** - a type of paneling

Sentence_____

30.   **inflammable** - easily catching fire; easily excited

Sentence_____

6 minutes

1. oracle
2. inclination
3. facile
4. global warming
5. cloister
6. boisterous
7. frijole
8. aerobatics
9. immortality
10. enthusiasm
11. mournfully
12. trowel
13. percussionist
14. cryogenics
15. kung fu
16. hundredth
17. stupendous
18. posthumous
19. advisory
20. commercialize
21. juror
22. *Sirius
23. inevitable
24. emphysema
25. resuscitate
26. vociferate
27. predecessor
28. taskmaster
29. quartzite
30. grievously

31.	pulmonary	46.	admonition
32.	synthesizer	47.	salutatorian
33.	acknowledge	48.	portentous
34.	umbrage	49.	rogue
35.	humidor	50.	et cetera
36.	tenderhearted	51.	good-natured
37.	rhombus	52.	intermediary
38.	gnomon	53.	camouflage
39.	nostalgia	54.	ocher, ochre
40.	quarterstaff	55.	jack-in-the-box
41.	neutralization	56.	antagonism
42.	facetious	57.	*deterrence
43.	subscription	58.	lousiest
44.	manipulator	59.	hypnotist
45.	wizen	60.	waggery

61. psychology

62. mischievous

63. untenable

64. trellis

65. witticism

66. maestro

67. verbatim

68. equivocal

69. totalitarian

70. discourtesy

71. no-man's-land

72. superlative

73. vexation

74. nonbusiness

75. unintentional

76. barnacle

77. lean-to

78. pomegranate

79. homicidal

80. demerit

81. tableau

82. chambray

83. rhinoceros

84. beleaguer

85. kerosene, kerosine

86. guacamole

87. respiration

88. nicotine

89. incinerate

90. turpentine

91.   neckerchief

92.   regalia

93.   éclair

94.   fusillade

95.   barrier reef

96.   crevasse

97.   impalpable

98.   centenarian

99.   destructible

100.   singularity

101.   quoit

102.   Victorian

103.   operetta

104.   holistic

105.   Grecian

106.   *imminent

107.   terminus

108.   indemnity

109.   humdrum

110.   stalemate

TIE BREAKER GRADER'S KEY   7th & 8th Grade

1. jaundice
2. espionage
3. indigenous
4. agglutinate
5. hemorrhage
6. nonresistant
7. fuchsia
8. superabundant
9. anticipation
10. parallelism
11. outmaneuver
12. instigate
13. aphorism
14. moccasin
15. anesthetist
16. posterity
17. utilitarian
18. memento
19. unconscionable
20. kaleidoscope
21. nuptial
22. oblivion
23. enormously
24. magisterial
25. sauerkraut
26. chivalry
27. encephalitis
28. valedictorian
29. wainscot
30. inflammable

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