

**Coordinate Algebra Mock EOCT****Multiple Choice**

Identify the choice that best completes the statement or answers the question.

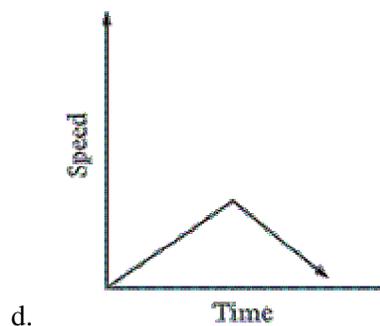
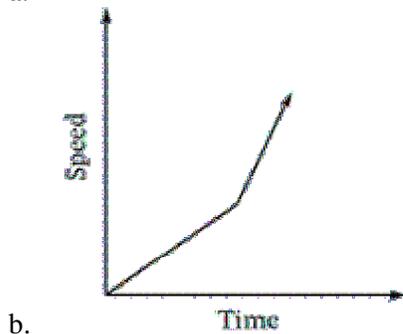
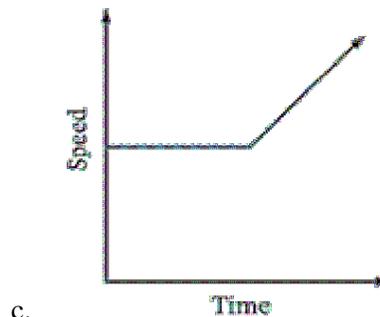
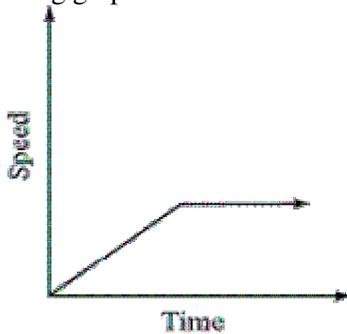
- \_\_\_\_\_ 1. The tension caused by a wave moving along a string is found using the formula

$$T = \frac{mv^2}{L}$$

If  $m$  is the mass of the string in grams,  $L$  is the length of the string in centimeters, and  $v$  is the velocity of the wave in centimeters per second, what is the unit of the tension of the string,  $T$ ?

- a. gram-centimeters per second squared      c. grams per centimeter-second squared  
b. centimeters per second squared      d. centimeters squared per second

- \_\_\_\_\_ 2. For 2 minutes, Maggie runs at a constant speed. Then she gradually increases her speed. Which of the following graphs could show how her speed changed over time?



- \_\_\_\_\_ 3. Two bicycle shops rent bikes by the hour. The cost to rent a bike for  $h$  hours from each shop is represented by these functions.

Shop 1:  $f(h) = 3 + 4h$

Shop 2:  $g(h) = 7 + 3h$

Ellen rented a bike from Shop 1. Roger rented a bike from Shop 2. They rented their bikes for the same number of hours and paid the same rental costs.

For how many hours did Ellen and Roger each rent their bike?

- a. 3 hours
- b. 5 hours
- c. 4 hours
- d. 25 hours

- \_\_\_\_\_ 4.

Shannon had  $x$  cookies. David had 5 more cookies than Shannon.

- Shannon ate half of her cookies.
- David ate one-third of his cookies.

Write an algebraic expression in simplest form that could represent the total number of cookies that David and Shannon ate.

- a.  $\frac{x+5}{3}$
- b.  $\frac{5x+10}{6}$
- c.  $\frac{1}{2}x$
- d.  $\frac{1}{3}(x+5)$

- \_\_\_\_\_ 5.

Which equation shows  $P = 2l + 2w$  when solved for  $w$ ?

- a.  $w = \frac{2l}{P}$
- b.  $w = \frac{2l - P}{2}$
- c.  $w = 2l - \frac{P}{2}$
- d.  $w = \frac{P - 2l}{2}$

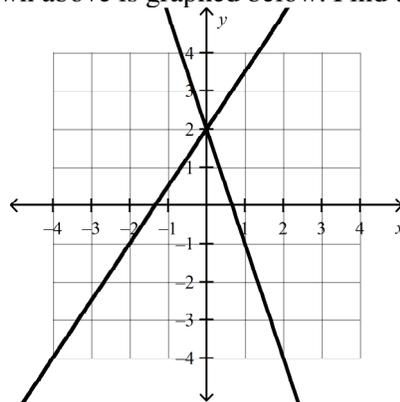
\_\_\_\_\_ 6. Marie is saving money for home repairs. To date, she has saved \$1,274. She needs at least \$1,484 for the repairs. She plans to set aside \$35 per week to add to her current savings. How can she model this situation with the inequality, and how many more weeks,  $x$ , does she need to continue saving in order to have enough money for the repairs?

- a.  $\$1,484 + \$35x \geq \$1,274$       $x \geq -6$
- b.  $\$1,274 + \$35x \geq \$1,484$ ;      $x \geq 6$
- c.  $\$1,274 - \$35x \geq \$1,484$       $x \leq -6$
- d.  $\$1,274 + \$35x \geq \$1,484$       $x \leq -6$

\_\_\_\_\_ 7.

$$\begin{cases} -6x + 4y = 8 \\ -3x - y = -2 \end{cases}$$

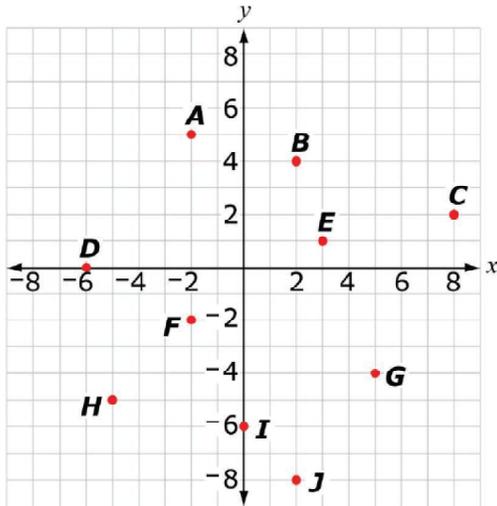
The system of equations shown above is graphed below. Find the solution to the system.



- a.  $x = 0, y = 2$
- b.  $x = 1, y = 1$
- c.  $x = 0, y = -3$
- d.  $x = 2, y = 0$

8. Given the system of inequalities shown below, select all the points that are solutions to this system of inequalities.

$$\begin{cases} x + y < 3 \\ 2x - y > 6 \end{cases}$$



- a. G, I and J  
 b. G and J  
 c. D, F and H  
 d. B and E
9. Sarah used the steps shown below to solve the equation  $\left(\frac{3}{4}\right)(7a)\left(\frac{4}{3}\right) = 49$ .

Step 1:  $\left(\frac{3}{4}\right)\left(\frac{4}{3}\right)(7a) = 49$

Step 2:  $(1)(7a) = 49$

Step 3:  $7a = 49$

Step 4:  $a = 7$

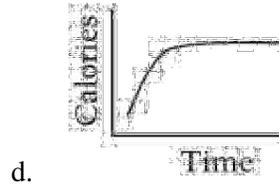
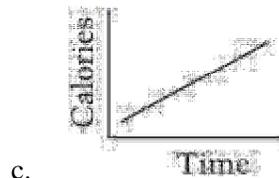
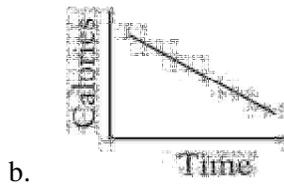
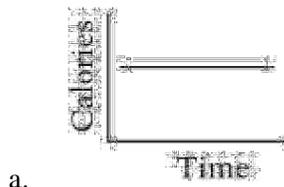
Which step can be justified by the commutative property of multiplication?

- a. Step 1  
 b. Step 2  
 c. Step 3  
 d. Step 4



- \_\_\_\_\_ 12. Which of the following graphs best illustrates the relationship between exercise time and total calories burned, as shown in the table below?

Exercise Time (in minutes)	Total Calories Burned
10	37
12	42
14	49
16	58
18	64
20	70



- \_\_\_\_\_ 13. A candy company can make a box of chocolates for a cost of \$30. (*The cost of the chocolates in the box is \$29, and the cardboard box itself costs \$1*).

Each box includes two kinds of candy: caramels and truffles. Lita knows how much the different types of candies cost per pound and how many pounds are in a box. She said,

If  $C$  is the number of pounds of caramels included in the box and  $T$  is the number of pounds of truffles in the box, then one can write the following equations based on what one knows about one of these boxes:

- $C + T = 3$
- $8C + 12T + 1 = 30$

Assuming Lita used the information given and her other knowledge of the candies, and using her equations, what does the term “ $12T$ ” represent?

- a. The number of pounds of truffles
- b. The total cost of the truffles
- c. The number of pounds of caramels
- d. The total cost of the caramels

\_\_\_\_ 14. A company uses two different-sized trucks to deliver sand. The first truck can transport  $x$  cubic yards, and the second  $y$  cubic yards. The first truck makes  $S$  trips to a job site, while the second makes  $T$  trips. What does  $\frac{xS+yT}{S+T}$  mean in practical terms?

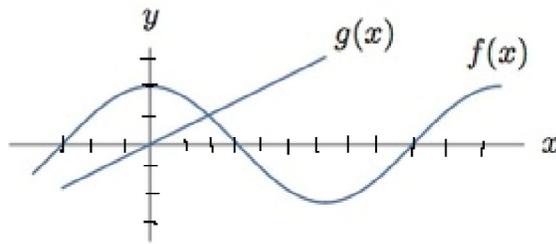
- The total amount of sand transported to the job site by both trucks, in a single trip.
- The total amount of sand transported to the job site by both trucks.
- The total number of trips taken by both trucks to the job site.
- The average amount of sand taken to the job site per truck trip.

\_\_\_\_ 15. Consider the expression  $\frac{1}{\frac{1}{A} + \frac{1}{B}}$ , where  $A$  and  $B$  are both positive numbers.

If you increase  $A$ , what happens to the value of the entire expression?

- The value of the expression increases
- The value of the expression decreases
- The value of the expression stays the same
- It cannot be determined if the expression increases, decreases, or stays the same.

\_\_\_\_ 16. Using the graph below.  $f(2) = \dots?$



- |           |           |
|-----------|-----------|
| a. 2      | c. 0      |
| b. $g(2)$ | d. $f(0)$ |

- \_\_\_\_\_ 17. In order to gain popularity among students, a new pizza place near school plans to offer a special promotion. The cost of a large pizza (in dollars) at the pizza place as a function of time (measured in days since February 10th, which is  $t = 0$  day ) may be described as

$$C(t) = \begin{cases} \$9, & 0 \text{ day} \leq t \leq 3 \text{ days} \\ \$9+t & 3 \text{ days} < t \leq 8 \text{ days} \\ \$20 & 8 \text{ days} < t \leq 28 \text{ days} \end{cases}$$

If you want to give their pizza a try, on what date(s) should you buy a large pizza in order to get the best price?

- Feb 10, 11, 12, or 13
  - Feb 14 only
  - Feb 20, 21, 22, 23
  - March 8th
- \_\_\_\_\_ 18. Let  $f(t)$  be the number of people, in millions, who own cell phones  $t$  years after 1990. Which of the following statements means “In the year 2000, there will be 100.3 million people who own cell phones?”

- $f(10)=100.3$
- $f(100.3)=10$
- $f(100)=10.3$
- $f(10.3)=100$

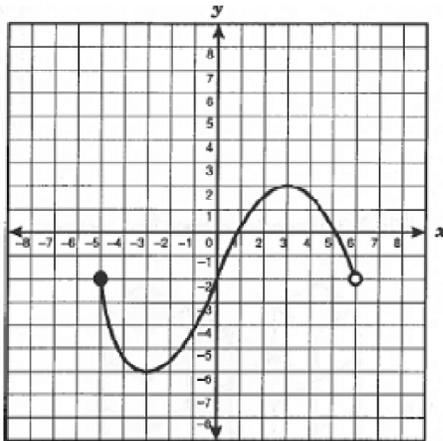
- \_\_\_\_\_ 19. You put a potato in the oven. Then you take it out. Let  $f$  be the function that assigns to each minute after you placed the potato in the oven, its temperature in degrees Fahrenheit.

Which sentence explains what  $f(0)=65$  means?

- When the potato has been in the oven for 65 minutes, the temperature is zero degrees.
- After 65 minutes, you have no potato left.
- You put 65 potatoes in the oven.
- When you first put the potato in the oven, its temperature was 65 degrees.

\_\_\_\_ 20.

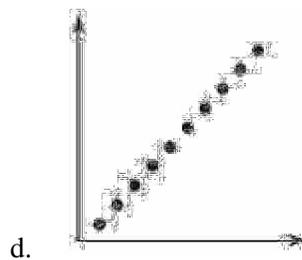
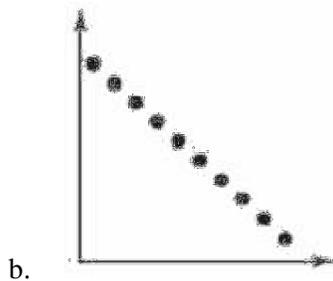
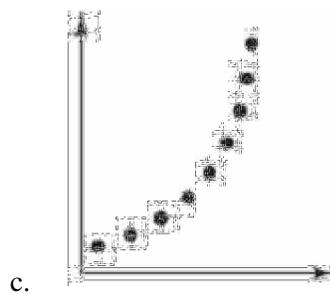
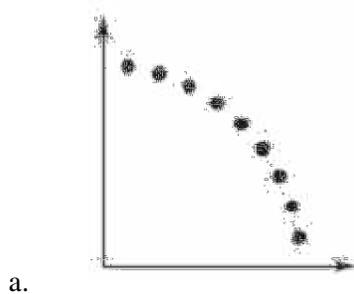
Mrs. Cox asked her students to identify the domain represented by the function graphed below.



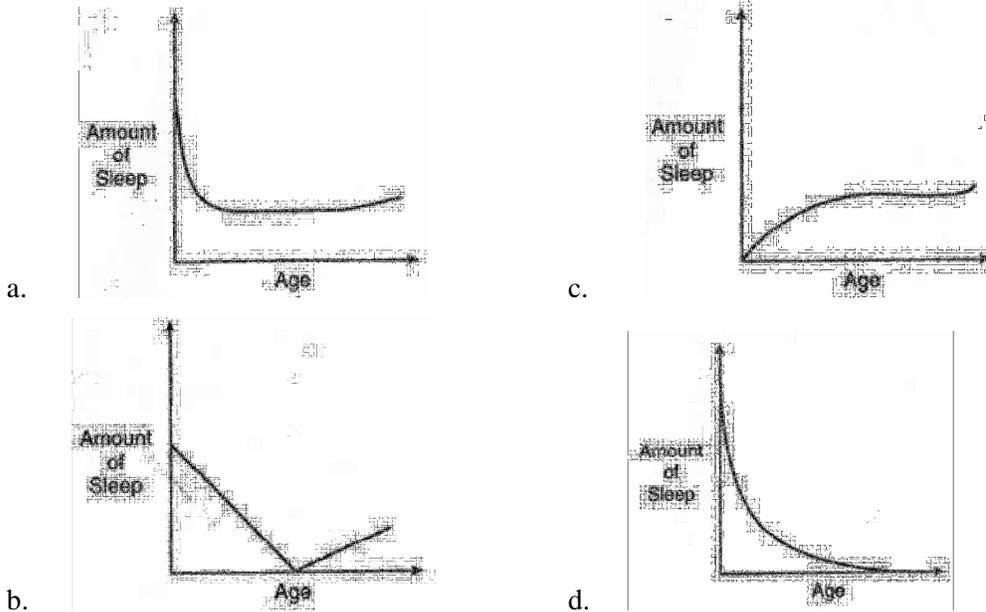
Which of the following student responses is correct?

- a.  $-5 \leq x < 6$
- b.  $-6 \leq x \leq 2$
- c.  $-5 \leq x < 2$
- d.  $-6 \leq x \leq 6$

\_\_\_\_ 21. Of the following graphs, which one is decreasing at a variable rate of change?



- \_\_\_\_\_ 22. Gina did a research project on how age affects sleep patterns. She concluded that as people age, they sleep fewer hours until a point in adulthood when the number of hours remains constant. Gina also found that after the age of 70 the amount of time spent sleeping increases slightly. Which graph **BEST** shows the results of Gina's research?



- \_\_\_\_\_ 23. A pep rally is being held over the entire lunch hour in the school gym. The temperature in the school gym was 70 degrees Fahrenheit immediately before the pep rally. The temperature within the gym steadily climbs to 77 degrees Fahrenheit over the next hour. What is the average rate of change of the temperature per minute?

- a.  $73.5^{\circ}F$
- b.  $\frac{7}{60}^{\circ}F/\text{min}$
- c.  $7^{\circ}F/\text{min}$
- d.  $7^{\circ}F$

- \_\_\_\_\_ 24. If the graph of  $f(x) = 6^x$  is shifted 3 units down, then what would be the equation of the new graph?

- a.  $g(x) = 6^{(x+3)}$
- b.  $g(x) = 6^{(x-3)}$
- c.  $g(x) = 6^x - 3$
- d.  $g(x) = 6^x + 3$

\_\_\_\_ 25. If  $f(x) = 2^x$ , describe the transformation of  $-f(x)$ .

- |   |  |
|---|--|
| a. The growth factor increases at a steeper rate              | c. The graph shifts down 1   |
| b. The graph is a reflection and the y-intercept would change | d. The graph is a reflection and the y-intercept would remain the same |

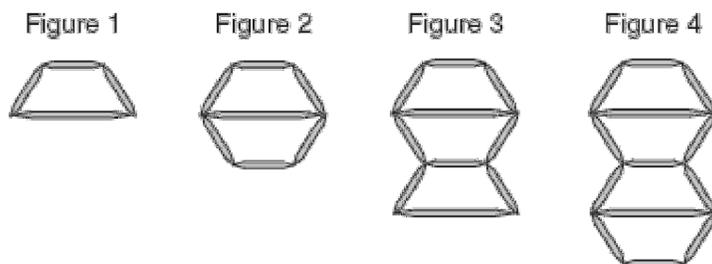
\_\_\_\_ 26.

Express the terms of the following geometric sequence by giving an explicit formula.

$$3, 1, \frac{1}{3}, \frac{1}{9}, \frac{1}{27}, \dots$$

- a.  $t_n = \frac{1}{3}(3)^n$ , where  $n = 1, 2, 3, \dots$
- b.  $t_n = \frac{1}{3}(3)^{n-1}$ , where  $n = 1, 2, 3, \dots$
- c.  $t_n = 3\left(\frac{1}{3}\right)^{(n-1)}$ , where  $n = 1, 2, 3, \dots$
- d.  $t_n = 3\left(\frac{1}{3}\right)^{n-1}$ , where  $n = 1, 2, 3, \dots$

\_\_\_\_ 27. Each figure in the pattern shown is made of toothpicks. Which function represents the number of toothpicks in the  $n$ th figure?



- a.  $f(n) = 3n + 1$
- b.  $f(n) = 4n + 3$
- c.  $f(n) = 4n$
- d.  $f(n) = n + 3$

\_\_\_\_\_ 28. Which function below represents exponential growth?

- a.  $f(x) = (0.2)^{x-1}$
- b.  $f(x) = (1.0001)^x$
- c.  $f(x) = \frac{2}{3}^{x-1}$
- d.  $f(x) = (1 - 0.5)^{x-1}$

\_\_\_\_\_ 29. Given the chart below, are  $f(x)$  and  $g(x)$  linear or exponential?

x	f(x)	g(x)
0	1	1
1	3	2
2	5	4
3	7	8
4	9	16
5	11	32
6	13	64
7	15	128
8	17	256
9	19	512
10	21	1024

- a. both  $f(x)$  and  $g(x)$  are linear
- b.  $f(x)$  is exponential and  $g(x)$  is linear
- c.  $f(x)$  is linear and  $g(x)$  is exponential
- d. both  $f(x)$  and  $g(x)$  are exponential

\_\_\_\_\_ 30. Mr. Wiggins gives his daughter Celia two choices of payment for raking leaves:

**Payment Option One:** Two dollars for each bag of leaves,

**Payment Option Two:** She will be paid for the number of bags of leaves she rakes as follows: two cents for one bag, four cents for two bags, eight cents for three bags, and so on with the amount doubling for each additional bag.

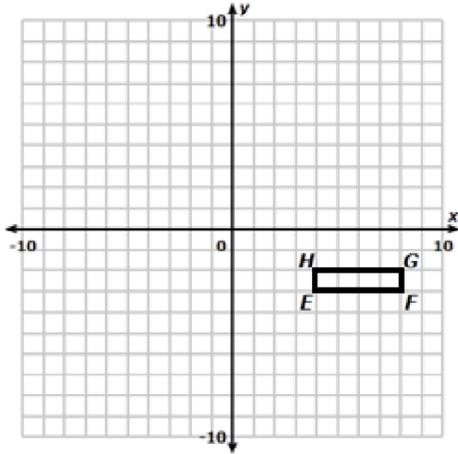
If Celia thinks she will be raking about 10 bags of leaves, should she opt for: Payment Option 1 or Payment Option 2?

- a. Payment Option One
- b. Payment Option Two
- c. It does not matter - she will get paid the same amount for both.



\_\_\_\_\_ 34.

Write the coordinates of the vertices of rectangle EFGH after a reflection across the y-axis.



$$E(4, -3) \rightarrow E'(\square, \square)$$

$$F(8, -3) \rightarrow F'(\square, \square)$$

$$G(8, -2) \rightarrow G'(\square, \square)$$

$$H(4, -2) \rightarrow H'(\square, \square)$$

a.  $E'(-4, 3)$

$F'(-8, 3)$

$G'(-8, 2)$

$H'(-4, 2)$

b.  $E'(4, -3)$

$F'(-8, 3)$

$G'(8, -2)$

$H'(-4, 2)$

c.  $E'(4, 3)$

$F'(8, 3)$

$G'(8, 2)$

$H'(4, 2)$

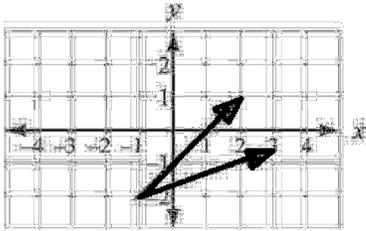
d.  $E'(-4, -3)$

$F'(-8, -3)$

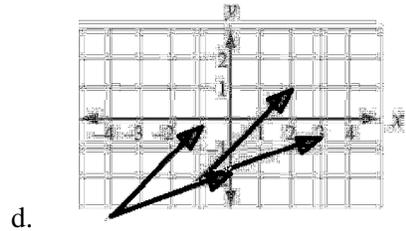
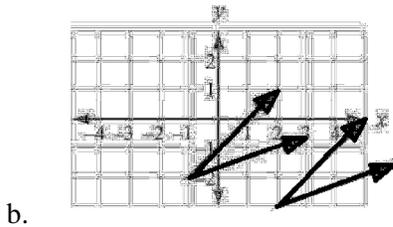
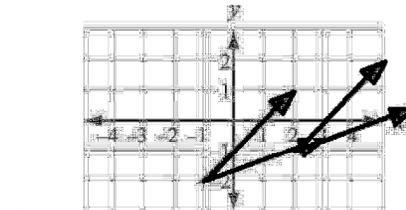
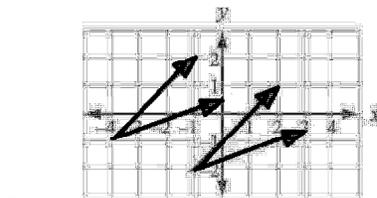
$G'(-8, -2)$

$H'(-4, -2)$

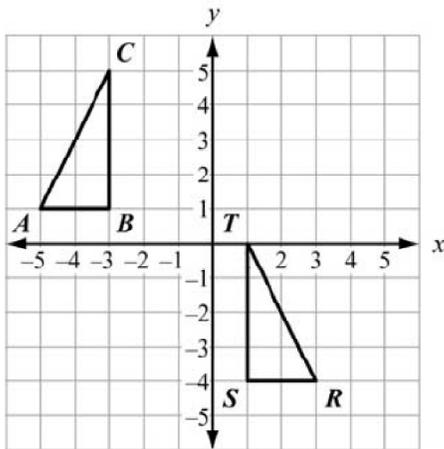
\_\_\_ 35. Use the figure of an angle below and the translation  $(x, y) \rightarrow (x - 3, y + 1)$ .



What is the resulting transformation?

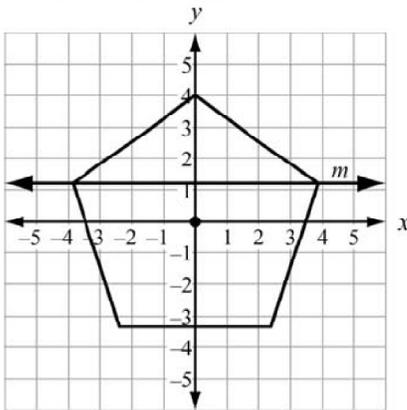


\_\_\_ 36. Which sequence of transformations maps  $\triangle ABC$  to  $\triangle RST$ ?



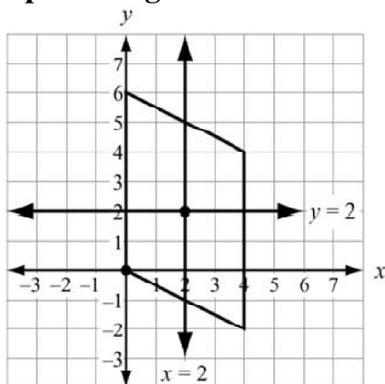
- Reflect  $\triangle ABC$  across the line  $x = -1$ . Then translate the result 1 unit down.
- Reflect  $\triangle ABC$  across the line  $x = -1$ . Then translate the result 5 units down.
- Translate  $\triangle ABC$  across the line  $x = -1$ . Then rotate the result  $90^\circ$  clockwise about the point  $(1, 1)$ .
- Translate  $\triangle ABC$  across the line  $x = -1$ . Then rotate the result  $90^\circ$  counterclockwise about the point  $(1, 1)$ .

- \_\_\_ 37. A regular pentagon is centered about the origin and has a vertex at  $(0, 4)$ .



Which of the following transformation maps the pentagon onto itself?

- a reflection across line  $m$
  - a reflection across the  $x$ -axis
  - a clockwise rotation of  $100$  about the origin
  - a clockwise rotation of  $144$  about the origin
- \_\_\_ 38. A parallelogram has vertices at  $(0, 0)$ ,  $(0, 6)$ ,  $(4, 4)$ , and  $(4, -2)$ .



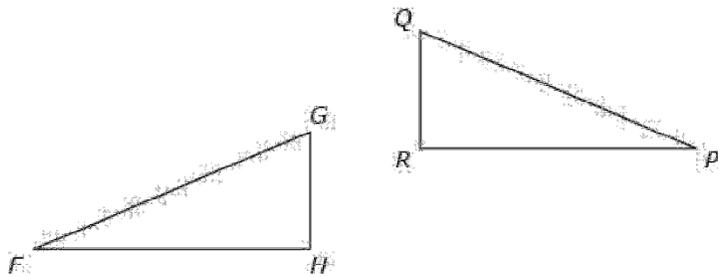
Which of the following transformation maps the parallelogram onto itself?

- a reflection across the line  $x = 2$
- a reflection across the line  $y = 2$
- a rotation of  $180$  about the point  $(2, 2)$
- a rotation of  $180$  about the point  $(0, 0)$

Name: \_\_\_\_\_

ID: A

\_\_\_ 39. Triangles  $FGH$  and  $PQR$  are shown.

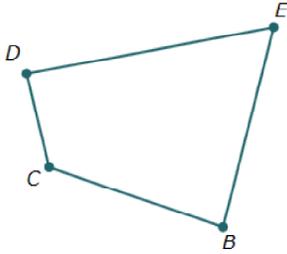


Which sequence of transformations on  $FGH$  could result in  $PQR$  ?

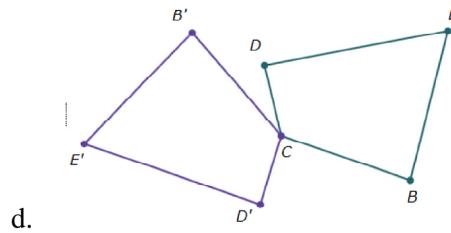
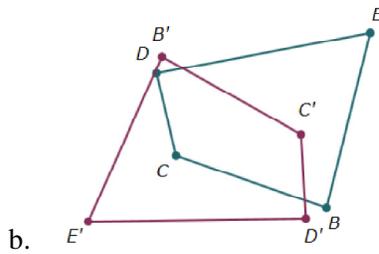
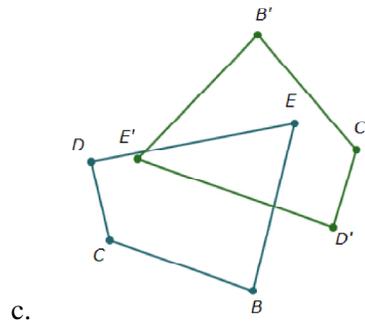
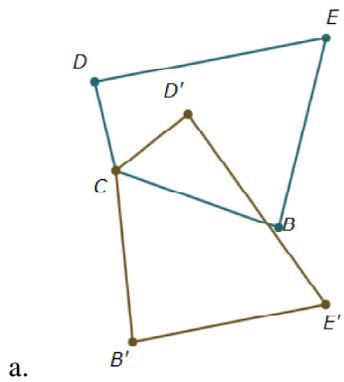
- |   |  |
|---|--|
| a. Reflection over a vertical line and translation up     | c. Rotation 180 degrees and translation up   |
| b. Reflection over a horizontal line and translation down | d. Rotation 180 degrees and translation down |

40.

Look at this diagram:



Which diagram shows quadrilateral  $BCDE$  rotated  $150^\circ$  counterclockwise about point  $C$  to arrive at quadrilateral  $B'C'D'E'$ ?



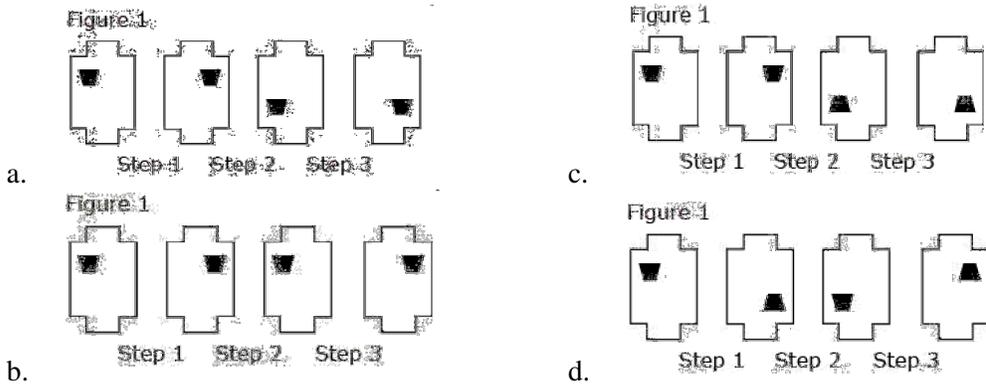
41. Honmin is creating a graphic design. She draws a white dodecagon with a small gray isosceles trapezoid inside and labels it Figure 1. To complete her design, she performs these three transformations in order on the preceding figure.

Step 1: Reflection

Step 2: Rotation

Step 3: Reflection

Which sequence of figures could be Honmin's design?



42. A student plotted points  $R$  and  $S$  on a coordinate grid.

Point  $R$  is located at  $(-7, 2)$ .

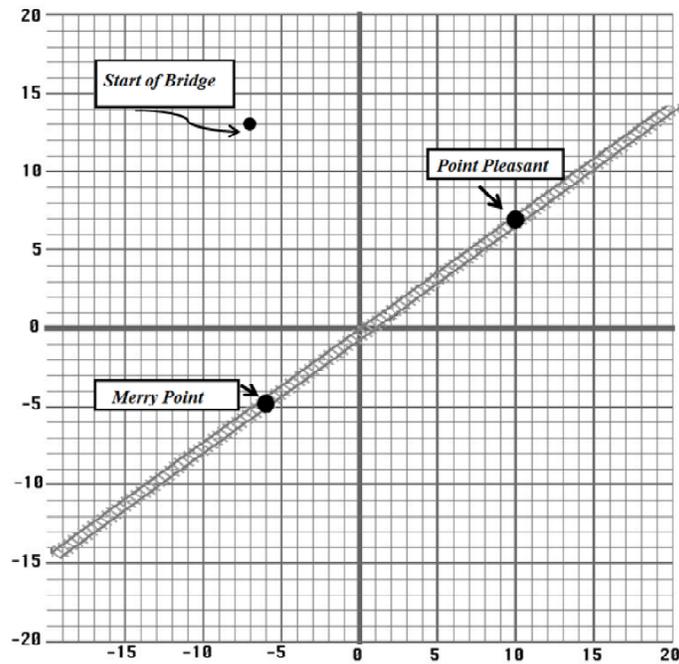
Point  $S$  is located at  $(1, 8)$ .

What is the length of  $\overline{RS}$ ?

- a. 14 units  
 b. 10 units  
 c. 9.53 units  
 d. 10.82 units
43. The vertices of a triangle are:  $(-2, 4)$ ;  $(3, 4)$ ; and  $(-4, -5)$ . Which of the following correctly classifies the triangle?
- a. The triangle is an acute scalene triangle.  
 b. The triangle is an acute equilateral triangle.  
 c. The triangle is an obtuse scalene triangle.  
 d. The triangle is an acute isosceles triangle.



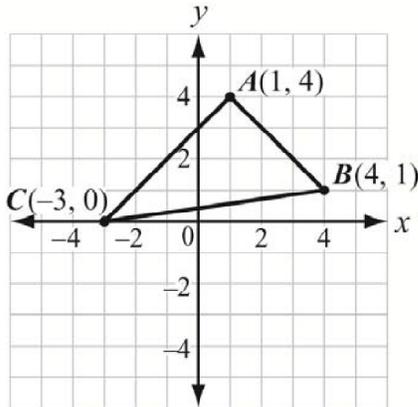
- \_\_\_\_\_ 47. A linear railroad track connects the towns of Point Pleasant (located at  $(10, 2)$ ) and Merry Point (located at  $(-6, -5)$ ), below. A bridge, which will start at the point  $(-7, 13)$ , is to be built perpendicularly to the railroad tracks, so that it crosses the railroad track at exactly halfway between the two towns at the bridge's midpoint.



What are the coordinates of the other end of the bridge?

- a.  $(11, -11)$       b.  $(10, -10)$       c.  $(12, -10)$       d.  $(11, -12)$
- \_\_\_\_\_ 48. Let  $\overline{AB}$  be the directed line segment beginning at point  $A(2, 2)$  and ending at point  $B(7, 7)$ . Find the point  $P$  on the line segment that partitions the line segment into the segments  $\overline{AP}$  and  $\overline{PB}$  at a ratio of 5:2.
- a.  $(5\frac{4}{7}, 5\frac{4}{7})$       c.  $(7\frac{4}{5}, 19\frac{1}{2})$   
 b.  $(3\frac{3}{7}, 3\frac{3}{7})$       d.  $(7\frac{4}{7}, 7\frac{4}{7})$

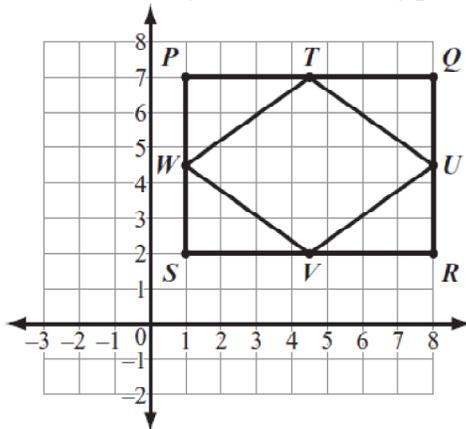
\_\_\_ 49. Triangle ABC has vertices as shown.



What is the area of the triangle?

- a.  $\sqrt{72}$  square units
- b. 12 square units
- c.  $\sqrt{288}$  square units
- d. 24 square units

\_\_\_ 50. This coordinate grid shows the flag pattern Heather drew.



Points T, U, V, and W are the midpoints of the sides of quadrilateral PQRS. Each unit on the grid represents one inch. What is the perimeter of quadrilateral TUVW?

- a. 14 inches
- b. 14.1 inches
- c. 17.2 inches
- d. 24 inches

- \_\_\_\_\_ 51. Peter went bowling, Monday to Friday, two weeks in a row. He only bowled one game each time he went. He kept track of his scores below.

	Monday	Tuesday	Wednesday	Thursday	Friday
Week 1	70	70	70	73	75
Week 2	72	64	73	73	75

**What is the best explanation for why Peter's Week 2 mean score was lower than his Week 1 mean score?**

- a. Peter received the same score three times in Week 1.  
 b. Peter had one very low score in Week 2  
 c. Peter did not beat his high score from Week 1 in Week 2  
 d. Peter had one very high score in Week 1.
- \_\_\_\_\_ 52. Mrs. Henderson teaches two Coordinate Algebra classes. The students took the Unit 4 test this week. The following box and whiskers plots show the summary statistics for each class.  
 First Period Class: Min, 41; Quartile 1, 62; Median, 81; Quartile 3, 90; Max, 97



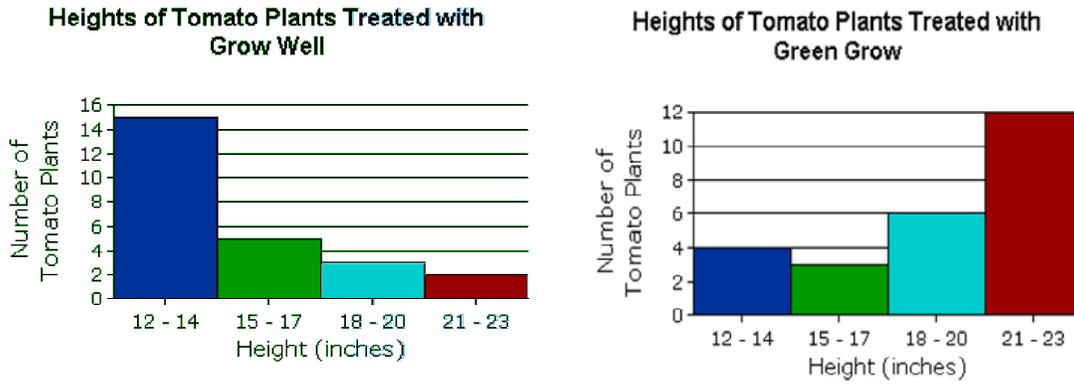
Second Period Class: Min, 52; Quartile 1, 68; Median, 79; Quartile 3, 87; Max, 91



Which of the following must be a true statement?

- a. The range of class 2 is greater than the range of class 1.  
 b. The grades are more spread out in class 1.  
 c. There are more students in class 1 than in class 2.  
 d. The mean grade in class one is the same as the mean grade in class 2.

53. Jason is testing two fertilizers, Grow Well and Green Grow, so he went to a nursery and bought 50 tomato plants of the same variety. He planted all 50 plants in an identical environment. He then administered Grow Well to 25 of the tomato plants and Green Grow to the remaining 25 tomato plants. After four weeks, Jason measured the heights of the tomato plants, to the nearest inch, and recorded their heights in the following histograms.



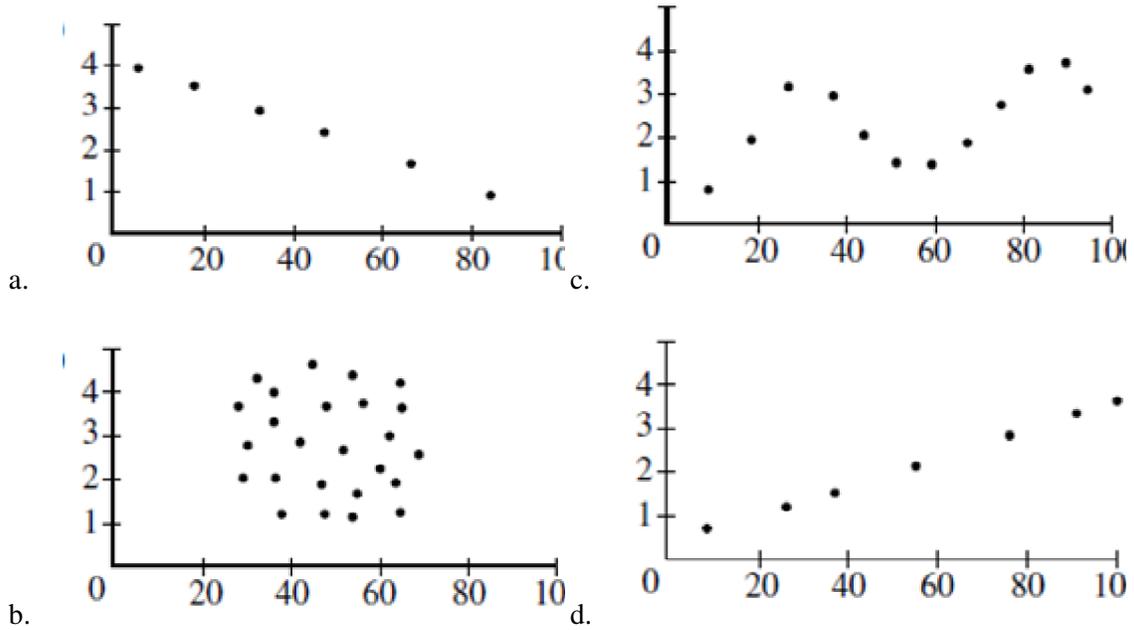
Which of the following statements is true for the data sets above?

- The number of tomato plants treated with Green Grow over the height of 18 inches is less than the number of tomato plants treated with Grow Well over the height of 18 inches.
- The number of tomato plants treated with Green Grow over the height of 18 inches is greater than the number of tomato plants treated with Grow Well over the height of 18 inches.
- The number of tomato plants treated with Green Grow over the height of 18 inches is equal to the number of tomato plants treated with Grow Well over the height of 18 inches.
- All of the statements are false for the given data sets.

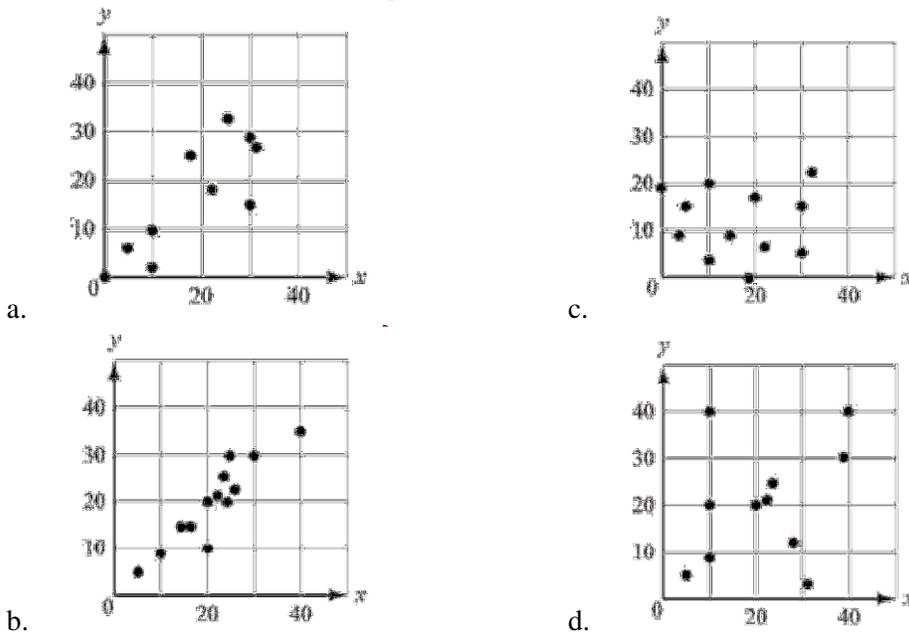
54. The scores for the 33 participants in a fund-raising golf tournament are represented in the graph below. In which interval is the median score found?



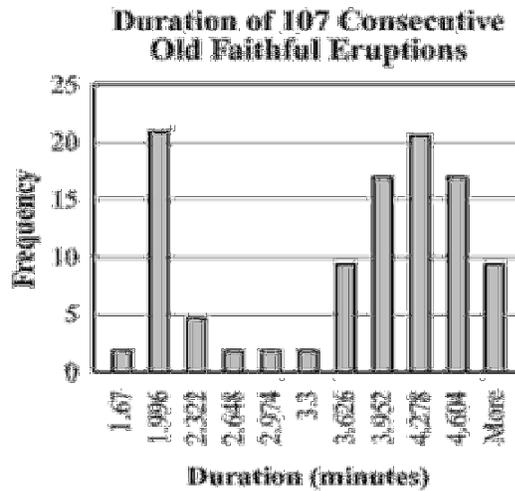
- a. 90-99      b. 100-109      c. 80-89      d. 70-79
55. Which of the following scatterplots could represent a set of data whose correlation coefficient is:  $r = -1$ ?



56. Which graph MOST clearly displays a set of data for which a linear function is the model of best fit?



57. This histogram shows the frequency distribution of duration times for 107 consecutive eruptions of the Old Faithful geyser. The duration of an eruption is the length of time, in minutes, from the beginning of spewing of water until it stops. What is the BEST description for the distribution?



- a. skewed to the right
- b. uniform
- c. bimodal
- d. multiple outliers

- \_\_\_\_\_ 58. The following two-way table shows the relationship between student participation in extracurricular activities in high school and college acceptance.

Extracurricular Activities and College Acceptance			
	College Acceptance	College Rejection	Total
Extracurricular Activities	385	256	641
No Extracurricular Activities	192	64	256
Total	577	320	897

What percentage of students that participated in extracurricular activities were accepted to college?

- a. 60.06%
  - b. 39.94%
  - c. 66.72%
  - d. 42.92%
- \_\_\_\_\_ 59. Nadia has a coin collection. The value of her coin collection over a period of time is shown in the table below.

Nadia's Coin Collection					
Number of Years, x	1	2	3	4	5
Value of Collection,	\$33.60	\$35.28	\$37.04	\$38.90	\$40.84

Which of the following functions would best model the data above?

- a. exponential function
- b. quadratic function
- c. linear function
- d. constant function

- \_\_\_\_\_ 60. A survey explored the relationship between gender and hair color of adults. the results are displayed in the following two-way frequency table.

**Gender and Hair Color of Adults**

	Blonde	Brown	Red	Other	Total
Males	4	10	2	4	20
Females	20	12	6	2	40
Total	24	22	8	6	60

Based on the table above, which of the following statements are true?

- I. The most common hair color among the surveyed adults is brown.
- II. An equal number of the surveyed males and the surveyed females have brown hair.
- III. Twice as many females were surveyed than males.
- IV. The most common hair color among the surveyed females is blonde.

- a. I and II
- b. II and IV
- c. III and IV
- d. I and III

- \_\_\_\_\_ 61. Mr. VanDeWater recorded the number of pages read in an hour by each of his students. The numbers are shown below.

44, 49, 39, 43, 50, 44, 45, 49, 51

What is the Mean Absolute Deviation (MAD) of this data set?

- a. 5.23
- b. 46
- c. 3.33
- d. 43.33

Name: \_\_\_\_\_

ID: A

- \_\_\_\_\_ 62. If Mrs. Weston's class mean on Unit 6 test was 80, and her Mean Absolute Deviation (MAD) is 5 points, and Mrs. Hughes' class mean on the same test was 80, but her Mean Absolute Deviation (MAD) is 20 points, which statement, below, do you know to be true?
- a. Mrs. Weston's class average was higher than Mrs. Hughes' class average.
  - b. Mrs. Hughes' class average was higher than Mrs. Weston's class average.
  - c. Mrs. Weston's class scores had more variability than Mrs. Hughes' class scores.
  - d. Mrs. Hughes' class scores had more variability than Mrs. Weston's class scores.

**Coordinate Algebra Mock EOCT  
Answer Section****MULTIPLE CHOICE**

- |                          |        |        |               |
|--------------------------|--------|--------|---------------|
| 1. ANS: A<br>LOC: G9.U1  | PTS: 1 | DIF: 3 | NAT: N.Q.2    |
| 2. ANS: C<br>LOC: G9.U1  | PTS: 1 | DIF: 2 | NAT: N.Q.3    |
| 3. ANS: C<br>LOC: G9.U1  | PTS: 1 | DIF: 2 | NAT: A.CED.2  |
| 4. ANS: B<br>LOC: G9.U1  | PTS: 1 | DIF: 3 | NAT: A.CED.1  |
| 5. ANS: D<br>LOC: G9.U1  | PTS: 1 | DIF: 1 | NAT: A.CED.4  |
| 6. ANS: B<br>LOC: G9.U2  | PTS: 1 | DIF: 3 | NAT: A.REI.3  |
| 7. ANS: C<br>LOC: G9.U2  | PTS: 1 | DIF: 1 | NAT: A.REI.6  |
| 8. ANS: B<br>LOC: G9.U2  | PTS: 1 | DIF: 2 | NAT: A.REI.12 |
| 9. ANS: A<br>LOC: G9.U2  | PTS: 1 | DIF: 1 | NAT: A.REI.1  |
| 10. ANS: C<br>LOC: G9.U2 | PTS: 1 | DIF: 2 | NAT: A.REI.6  |
| 11. ANS: D<br>LOC: G9.U3 | PTS: 1 | DIF: 2 | NAT: A.REI.11 |
| 12. ANS: C<br>LOC: G9.U3 | PTS: 1 | DIF: 2 | NAT: A.REI.10 |
| 13. ANS: B<br>LOC: G9.U1 | PTS: 1 | DIF: 3 | NAT: A.SSE.1  |
| 14. ANS: D<br>LOC: G9.U1 | PTS: 1 | DIF: 3 | NAT: A.SSE.1  |
| 15. ANS: A<br>LOC: G9.U1 | PTS: 1 | DIF: 3 | NAT: A.SSE.1  |
| 16. ANS: B<br>LOC: G9.U3 | PTS: 1 | DIF: 2 | NAT: F.IF.1   |
| 17. ANS: A<br>LOC: G9.U3 | PTS: 1 | DIF: 2 | NAT: F.IF.4   |
| 18. ANS: A<br>LOC: G9.U3 | PTS: 1 | DIF: 2 | NAT: F.IF.2   |
| 19. ANS: D<br>LOC: G9.U3 | PTS: 1 | DIF: 2 | NAT: F.IF.2   |
| 20. ANS: A<br>LOC: G9.U3 | PTS: 1 | DIF: 1 | NAT: F.IF.1   |

21.	ANS: A LOC: G9.U3	PTS: 1	DIF: 1	NAT: F.IF.2
22.	ANS: A LOC: G9.U3	PTS: 1	DIF: 2	NAT: F.IF.2
23.	ANS: B LOC: G9.U3	PTS: 1	DIF: 3	NAT: F.IF.6
24.	ANS: C LOC: G9.U3	PTS: 1	DIF: 1	NAT: F.BF.3
25.	ANS: B LOC: G9.U3	PTS: 1	DIF: 2	NAT: F.BF.3
26.	ANS: D LOC: G9.U3	PTS: 1	DIF: 2	NAT: F.BF.4
27.	ANS: A LOC: G9.U4	PTS: 1	DIF: 2	NAT: F.BF.2
28.	ANS: B LOC: G9.U3	PTS: 1	DIF: 1	NAT: F.LE.1c
29.	ANS: C LOC: G9.U3	PTS: 1	DIF: 1	NAT: F.LE.1b
30.	ANS: A LOC: G9.U3	PTS: 1	DIF: 3	NAT: F.LE.5
31.	ANS: A LOC: G9.U3	PTS: 1	DIF: 1	NAT: F.LE.2
32.	ANS: B LOC: G9.U5	PTS: 1	DIF: 2	NAT: G.CO.1
33.	ANS: D LOC: G9.U5	PTS: 1	DIF: 2	NAT: G.CO.1
34.	ANS: D LOC: G9.U5	PTS: 1	DIF: 1	NAT: G.CO.2
35.	ANS: A LOC: G9.U5	PTS: 1	DIF: 1	NAT: G.CO.2
36.	ANS: B LOC: G9.U5	PTS: 1	DIF: 2	NAT: G.CO.2
37.	ANS: D LOC: G9.U5	PTS: 1	DIF: 2	NAT: G.CO.3
38.	ANS: C LOC: G9.U5	PTS: 1	DIF: 1	NAT: G.CO.3
39.	ANS: A LOC: G9.U5	PTS: 1	DIF: 1	NAT: G.CO.5
40.	ANS: D LOC: G9.U5	PTS: 1	DIF: 1	NAT: G.CO.5
41.	ANS: C LOC: G9.U5	PTS: 1	DIF: 2	NAT: G.CO.5
42.	ANS: B LOC: G9.U6	PTS: 1	DIF: 1	NAT: G.GPE.7
43.	ANS: C LOC: G9.U6	PTS: 1	DIF: 2	NAT: G.GPE.4

44.	ANS: D LOC: G9.U6	PTS: 1	DIF: 2	NAT: G.GPE.4
45.	ANS: C LOC: G9.U6	PTS: 1	DIF: 1	NAT: G.GPE.5
46.	ANS: B LOC: G9.U6	PTS: 1	DIF: 1	NAT: G.GPE.5
47.	ANS: A LOC: G9.U6	PTS: 1	DIF: 3	NAT: G.GPE.5
48.	ANS: A LOC: G9.U6	PTS: 1	DIF: 2	NAT: G.GPE.6
49.	ANS: B LOC: G9.U6	PTS: 1	DIF: 2	NAT: G.GPE.7
50.	ANS: C LOC: G9.U6	PTS: 1	DIF: 2	NAT: G.GPE.7
51.	ANS: B LOC: G9.U4	PTS: 1	DIF: 1	NAT: S.ID.3
52.	ANS: B LOC: G9.U4	PTS: 1	DIF: 1	NAT: S.ID.1
53.	ANS: B LOC: G9.U4	PTS: 1	DIF: 2	NAT: S.ID.1
54.	ANS: C LOC: G9.U4	PTS: 1	DIF: 2	NAT: S.ID.2
55.	ANS: A LOC: G9.U4	PTS: 1	DIF: 2	NAT: S.ID.8
56.	ANS: B LOC: G9.U4	PTS: 1	DIF: 1	NAT: S.ID.6
57.	ANS: C LOC: G9.U4	PTS: 1	DIF: 2	NAT: S.ID.1
58.	ANS: A LOC: G9.U4	PTS: 1	DIF: 2	NAT: S.ID.5
59.	ANS: C LOC: G9.U4	PTS: 1	DIF: 2	NAT: S.ID.6
60.	ANS: C LOC: G9.U4	PTS: 1	DIF: 2	NAT: S.ID.5
61.	ANS: C LOC: G6.U6	PTS: 1	DIF: 2	NAT: 6.SP.4
62.	ANS: D LOC: G6.U6	PTS: 1	DIF: 2	NAT: 6.SP.4