Test Name: 2020-2021 T-Math-Gr6Reg-T4-PBT
Test ID: 2130405
Date:

Section 1 - Students may NOT use a calculator.

Section 1 Instructions
Students may NOT use a calculator for this test.

1. The record low for Florida is 2 degrees below zero Fahrenheit and was set on February 13, 1899. The record high is 109 degrees Fahrenheit and was set on June 29, 1931. Which pair of numbers shows these temperatures, in degrees Fahrenheit, written as integers?

A. 2 and 109

B. 2 and -109

C. -2 and 109

D. -2 and -109

2. Jane is studying the weather in Alaska. She has recorded the temperature for four days in January, in degrees Fahrenheit, as shown in the table.

Day	Monday	Tuesday	Wednesday	Thursday
Temperature	–5°F	–1°F	3°F	5°F

Jane claims that as the week progressed the temperatures increased from below zero to above zero.

Which of the following statements provide support for Jane's claim? Select *all* that apply.

A. Monday had the lowest temperature below zero.

B. Thursday had the lowest temperature below zero.

C. On Wednesday and Thursday the temperature was below zero.

D. The temperature was above zero on all of the days.

E. On Monday and Tuesday the temperature was below zero.

F. On Monday and Thursday the temperature was the same.

3. Which situation has a net result of zero?

A. The temperature was $-9°F$ and fell 9°F.

B. Janet had $4 and gave $3 to her friend.

C. High tide was 5.5 ft and now low tide is -0.5 ft.

D. The hot-air balloon rose 539 feet. It then lost 539 feet of altitude.

4. Which statement could be represented by a negative integer?

A. Maria spent $9 at the movies.

B. Ryan has no money in his wallet.

C. A football player gained 10 yards.

D. The temperature outside increased by 8ºF.

5. Omar flies his plane out of a local airport. The airport is at an altitude of 750 feet above sea level. He flies his plane to an altitude of 1,600 feet above sea level. Which number represents sea level?

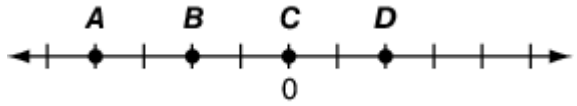
A. -1600

B. 0

C. 750

D. 850

6. Which letters shown below on the number line also have their opposites labeled?



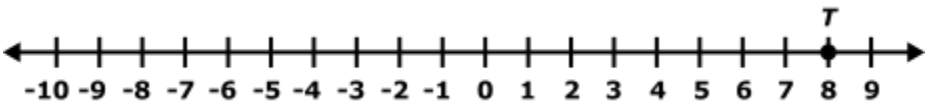
A. A and D

B. B and C

C. A, B, and C

D. B, C, and D

7.



Using the number line above, select the number that would be the opposite of Point *T*.

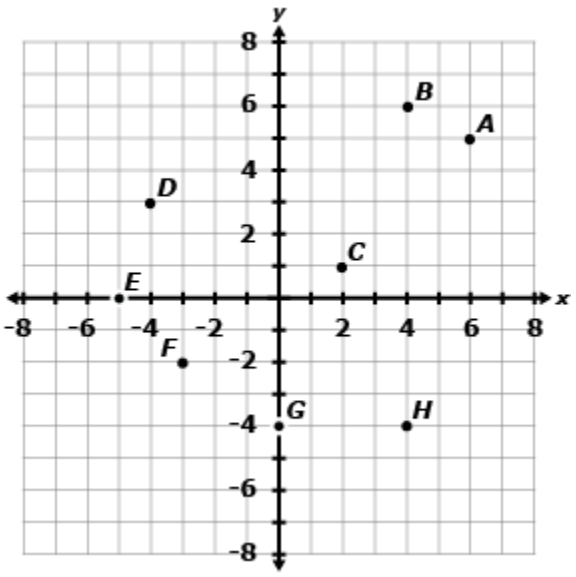
A. –8

B. 0

C. 7

D. 9

8. Point B is in quadrant _____ and Point D is in quadrant _____.



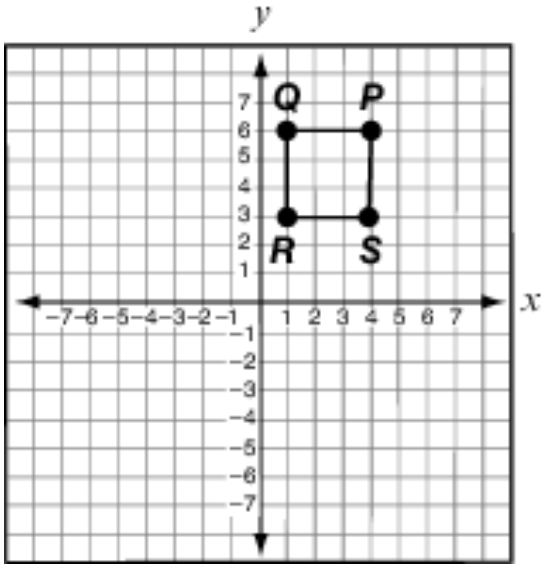
A. I, II

B. IV, III

C. IV, I

D. II, I

9. Look at rectangle *PQRS* below. If point *S* is reflected over the *y*-axis, what would be the coordinates of the reflection of point *S*?



A. $(-1, 3)$

B. $(-4, 3)$

C. $(4, -3)$

D. $(4, -6)$

10. Which of the following coordinates is located in Quadrant IV?

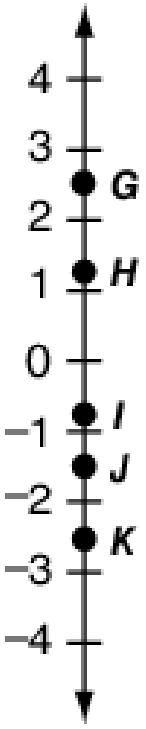
A. (4, –2)

B. (–2, 4)

C. (4, 2)

D. (–2, –4)

11.
Which points on this vertical number line best represent the locations of 2.5 and $-\frac{3}{2}$?



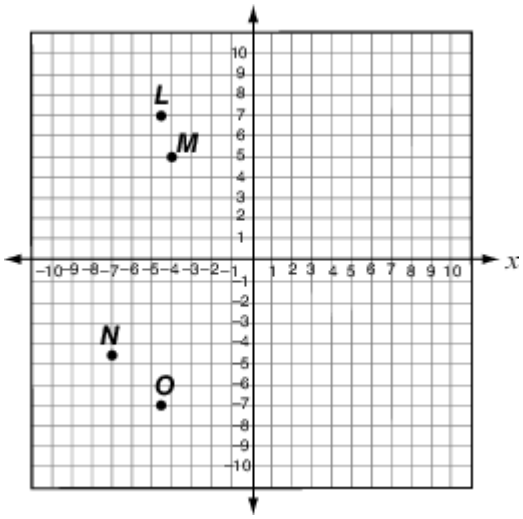
A. G and J

B. G and K

C. H and I

D. H and J

12. Which point on the graph best represents the location of $(-4.5, -7)$?



A. point L

B. point M

C. point N

D. point O

13. Which statement is true about -14 and -8 ?

A. $-14 > -8$ because -14 is located to the left of -8 on the number line.

B. $-14 < -8$ because -14 is located to the left of -8 on the number line.

C. $-14 > -8$ because -14 is located to the right of -8 on the number line.

D. $-14 < -8$ because -14 is located to the right of -8 on the number line.

14. Morgan, Phillip, and Drew are playing a game. At the end of the game, Morgan had scored -8 points, Phillip 4 points, and Drew -5 points. If the object of the game is to score the most points, which of these claims is true?

A. Morgan won the game because 8 is located to the right of 4 and 5 on a number line.

B. Philip won the game because 4 is located to the right of -5 and -8 on a number line.

C. Drew scored better than Phillip because -5 is to the left of 4 on the number line.

D. Morgan scored better than Drew because -8 is to the left of -5 on the number line.

15.

Name	Account Balance
Company 1	–$292.12
Company 2	–$94.19
Company 3	–$94.99
Company 4	–$312.18

Using the chart above, which of the following statements is true when comparing the account balances?

A. Company 2's debt $>$ Company 3's debt

B. Company 1's debt $<$ Company 4's debt

C. Company 4's debt $<$ Company 2's debt

D. Company 3's debt $>$ Company 1's debt

16.

Name	Account Balance
Jesse	–$23.25
John	–$19.05
Michelle	–$3.05
Christine	–$27.58

Using the chart above, which of the following statements is true when comparing the account balances?

A. John is in greater debt than Jesse.

B. Christine is in less debt than Michelle.

C. Michelle is in greater debt than Jesse.

D. Michelle is in less debt than John.

17. Which of the following is equal to the absolute value of 7?

A. the distance between 1 and 7 on a number line

B. the distance between –3 and –4 on a number line

C. the distance between –7 and 7 on a number line

D. the distance between 7 and zero on a number line

18. Michelle received notice from her bank that her account balance was $-\$12$. She then went to the bank and deposited her paycheck. The account balance after the deposit is $366. Which expression can be used to find how much money Michelle deposited?

A. $|366|-12$

B. $|366|+|-12|$

C. $|366|-|-12|$

D. $|366+(-12)|$

19. Leah has an account balance of –150 dollars. Which of the following represents a debt greater than –150 dollars?

A. –175 dollars

B. –150 dollars

C. –125 dollars

D. 0 dollars

20. Susan is creating a budget, and she has made a table listing her account balances at some stores.

Store	Account Balance
A	–$35.91
B	–$14.54
C	–$28.48
D	–$41.08
E	–$38.45
F	–$33.97

Susan also owes her parents $34.87. Susan claims that the amount she owes to her parents is lower than any of the account balances at the various stores. Which *three* account balances prove that Susan's claim is *false*?

A. Store A

B. Store B

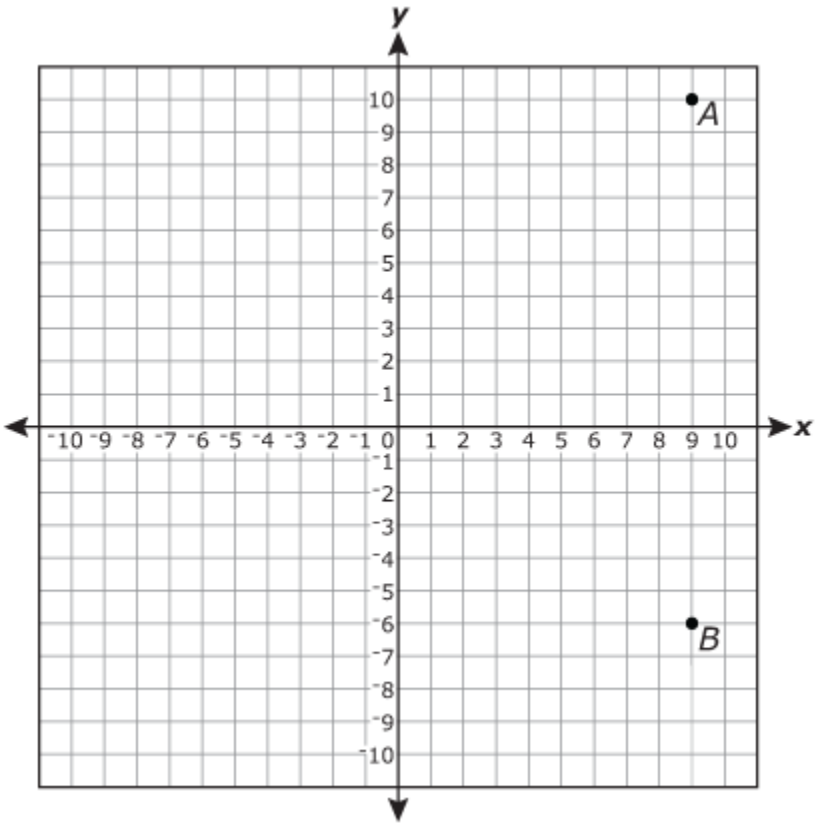
C. Store C

D. Store D

E. Store E

F. Store F

21. Point *A* and Point *B* are graphed on the coordinate grid below.



What is the distance between Point *A* and Point *B*?

A. 4 units

B. 6 units

C. 10 units

D. 16 units

22. Given points $(-2, 3)$ and $(9, 3)$, which expression can be used to find the distance between the two points?

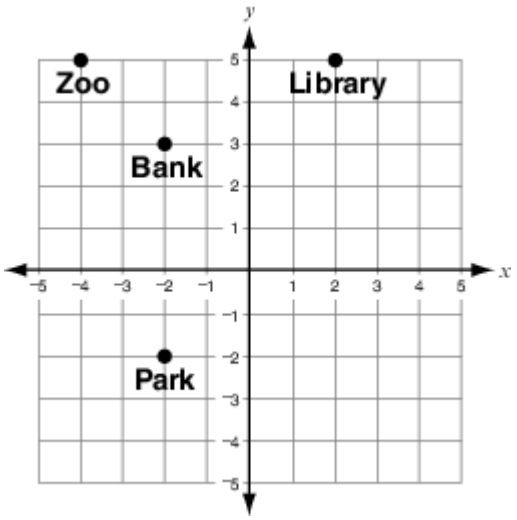
A. $|9|+|3|$

B. $|9|-|-2|$

C. $|-2|+|3|$

D. $|-2|+|9|$

23. The coordinate plane shown below represents the locations of several buildings.



If the doctor's office is 7 units from the zoo and 2 units from the park, which ordered pair could represent the location of the doctor's office?

A. $(-7, -2)$

B. $(-4, -2)$

C. $(-2, -4)$

D. $(0, -2)$

24. What is the distance between the points $M(-21, -7)$ and $N(-5, -7)$?

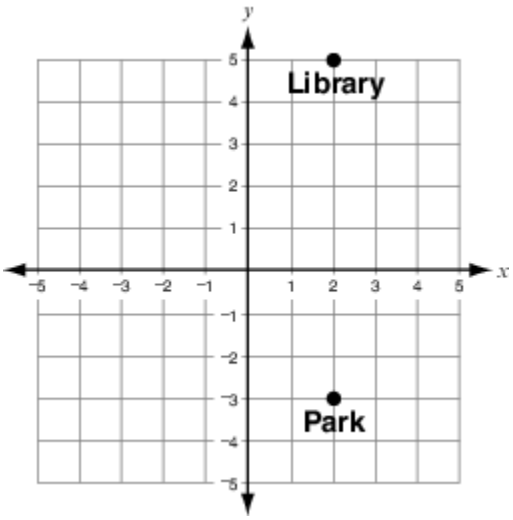
A. 14 units

B. 16 units

C. 26 units

D. 28 units

25. The coordinate plane shown below shows the locations of the library and park in the town where Rasheed lives.



Which expression represents the distance from the library to the park as modeled on the coordinate grid?

A. $|5|+|3|$

B. $|5|+|-3|$

C. $|5|-|-3|$

D. $|-5|-|-3|$

You have reached the end of this section.

Grade 6 FSA Mathematics Reference Sheet

Customary Conversions

1 foot = 12 inches
1 yard = 3 feet
1 mile = 5,280 feet
1 mile = 1,760 yards

1 cup = 8 fluid ounces
1 pint = 2 cups
1 quart = 2 pints
1 gallon = 4 quarts

1 pound = 16 ounces
1 ton = 2,000 pounds

Metric Conversions

1 meter = 100 centimeters
1 meter = 1000 millimeters
1 kilometer = 1000 meters

1 liter = 1000 milliliters

1 gram = 1000 milligrams
1 kilogram = 1000 grams

Time Conversions

1 minute = 60 seconds
1 hour = 60 minutes
1 day = 24 hours
1 year = 365 days
1 year = 52 weeks

Formulas

$A = bh$

$A = lw$

$A = \frac{1}{2}bh$

$A = \frac{1}{2}h(b_1 + b_2)$

$V = Bh$

$V = lwh$