

TEST NAME: **Integers Quiz (Add, Subtract, Multiply and Divide) (Revised)**  
TEST ID: **1931583**  
GRADE: **07 - Seventh Grade**  
SUBJECT: **Mathematics**  
TEST CATEGORY: **Shared Classroom Assessments**

## 10/10/17, Integers Quiz (Add, Subtract, Multiply and Divide) (Revised)

Student: \_\_\_\_\_

Class: \_\_\_\_\_

Date: \_\_\_\_\_

1. Mariana starts her hike up a mountain at an altitude of 1,792 feet and climbs to an altitude of 4,360 feet. She then hikes back down the mountain. Which equation could represent the change in altitude during her hike?
  - A.  $4,360 \text{ ft} - 1,792 \text{ ft} = 2,568 \text{ ft}$
  - B.  $1,792 \text{ ft} + 4,360 \text{ ft} = 6,152 \text{ ft}$
  - C.  $1,792 \text{ ft} + 2,568 \text{ ft} - 2,568 \text{ ft} = 1,792 \text{ ft}$
  - D.  $1,792 \text{ ft} + 2,568 \text{ ft} + 2,568 \text{ ft} = 6,928 \text{ ft}$

2. The level of an aquifer is recorded daily in feet. Which table shows quantities combined to result in zero change in the aquifer level?

A.

Day	Change
1	+ 0.9
2	- 0.3
3	- 0.2
4	- 0.4

B.

Day	Change
1	+ 1.6
2	+ 0.5
3	- 0.7
4	+ 1.4

C.

Day	Change
1	- 0.8
2	- 0.5
3	- 0.3
4	0.0

D.

Day	Change
1	- 0.4
2	+ 0.3
3	+ 0.3
4	+ 0.2

3. The table below shows the scores for four mini-golf players during the past five games.

**Mini-Golf Scores**

Name	Game A	Game B	Game C	Game D	Game E
Marcus	-2	+4	-3	0	-1
Laura	+2	+3	-1	-1	-2
Shannon	-1	+2	0	0	-3
Vidya	-4	+1	+2	-1	+2

**Which player had a total score of exactly 0 during the past five games?**

- A. Marcus
- B. Laura
- C. Shannon
- D. Vidya

4. **Which statement models this equation?**

$$11 + (-11) = 0$$

- A. William purchased 11 oranges and 11 apples.
- B. Ms. Vela had 11 pennies in a jar after taking out 11 pennies.
- C. Sheila had 11 marbles. She gave 4 to Bobby, 5 to Carla, and 2 to Jenna.
- D. Mr. Carlson drove 11 miles to work. He then drove 10 miles back home.

5. **Which situation does NOT describe a final value of 0?**

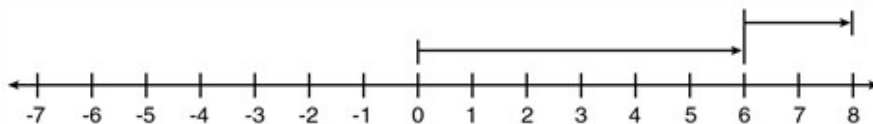
- A. A balloon rose to a height of 605 feet above the ground. It then dropped 500 feet and then dropped another 105 feet.
- B. The temperature at 9 a.m. was  $-9^{\circ}\text{F}$ . During the next 3 hours it rose 8 degrees and then rose an additional 2 degrees.
- C. After the first round in a game Jack's score was  $-11$ . He then scored 5 points in the next round and an additional 6 points in the third round.
- D. Keisha's bank account had \$450 at the beginning of the week. She deposited \$200 on Monday, withdrew \$500 on Tuesday and withdrew an additional \$150 on Wednesday.

6. **What integer can be added to  $-27$  to result in zero?**

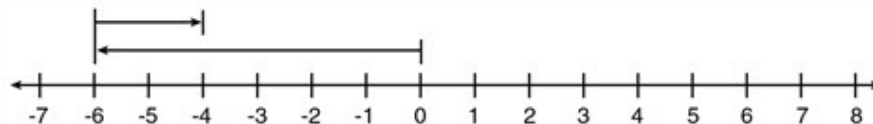
- A.  $-27$
- B. 0
- C. 1
- D. 27

7. Which number line correctly represents  $-6+2$ ?

A.



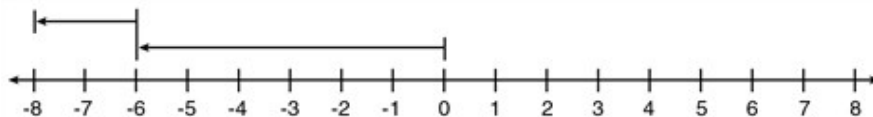
B.



C.



D.



8. What is the opposite of  $\frac{3}{8}$ ?

- A.  $-\frac{8}{3}$
- B.  $-\frac{3}{8}$
- C.  $\frac{3}{8}$
- D.  $\frac{8}{3}$

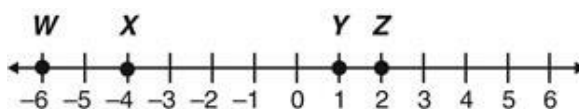
9. Carlos is adjusting a balance of a scale that reads  $-0.45$  kg. He will need to add the opposite of this reading to balance the scale at zero. How much will he need to add to the scale?

- A.  $-0.90$  kg
- B.  $-0.45$  kg
- C.  $0.45$  kg
- D.  $0.90$  kg

10. What is the opposite of  $-25$ ?

- A.  $-52$
- B.  $-25$
- C.  $25$
- D.  $52$

11. What is the distance between  $X$  and  $Z$  on the number line below?



- A. -6 units
- B. -5 units
- C. 5 units
- D. 6 units

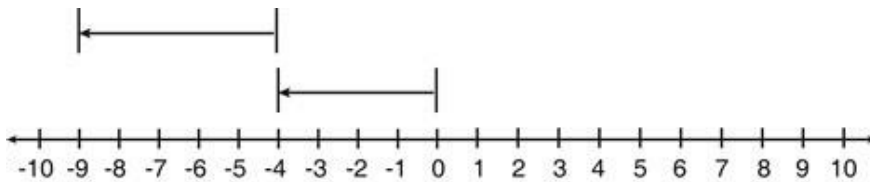
12. The price of one share of a stock increased by \$3 on Monday and then decreased by \$4 on Tuesday. Which expression shows the change in the price of a share of the stock in two days?

- A.  $3 + (-4)$
- B.  $3 - (-4)$
- C.  $4 + (-3)$
- D.  $4 - (-3)$

13. Which number line correctly represents  $-4 - 2$ ?

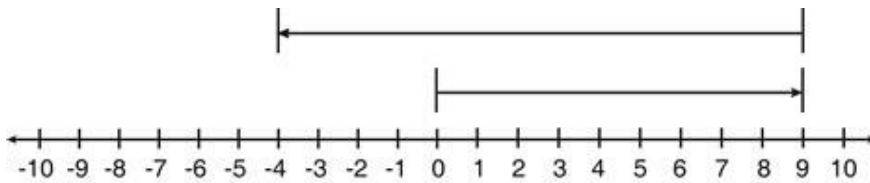
- A.
- 
- Number line A: A horizontal number line from -8 to 8. A horizontal arrow starts at 0 and ends at 2, pointing to the right.
- B.
- 
- Number line B: A horizontal number line from -8 to 8. A horizontal arrow starts at 0 and ends at -2, pointing to the left.
- C.
- 
- Number line C: A horizontal number line from -8 to 8. A horizontal arrow starts at -2 and ends at 2, pointing to the right.
- D.
- 
- Number line D: A horizontal number line from -8 to 8. A horizontal arrow starts at -4 and ends at -6, pointing to the left.

14. Ms. Galindo gave Lori an expression to simplify.



Which numerical expression did Lori simplify based on this number line?

- A.  $-9 - 4$
  - B.  $-9 + 4$
  - C.  $-4 - 5$
  - D.  $-4 + 0$
15. Which numerical expression is represented by the number line shown?



- A.  $-4 - 9$
  - B.  $9 - 4$
  - C.  $9 - 13$
  - D.  $9 + 13$
16. Which situation can be solved using the expression shown?

$$-1\frac{3}{4}(12)$$

- A. A student paid \$1.75 for 12 pieces of gum. What was the cost of each piece of gum?
- B. The temperature dropped  $1\frac{3}{4}$  degrees Fahrenheit every hour. What was the total change in temperature after 12 hours?
- C. The cost of two movie tickets was \$12. The tax on the tickets was \$1.75. What was the total cost of the two movie tickets?
- D. The temperature at noon was 12 degrees Fahrenheit. It dropped  $1\frac{3}{4}$  degrees by 1 p.m. What was the temperature at 1 p.m.?

17. Which situation can be solved using the expression shown?

$$- \frac{1}{5} ( 5280 ) ( 4 )$$

- A. A submarine ascended  $\frac{1}{5}$  of a mile every hour. How many feet did the submarine travel in 4 hours?
- B. Hikers descended  $\frac{1}{5}$  of a mile every hour for 4 hours. How many feet did the hikers travel in 4 hours?
- C. A used car costs \$5,280. A down payment of  $\frac{1}{5}$  of the cost is required, and monthly payments are made for 4 years. What is the cost of each monthly payment?
- D. Of the 5280 employees at a company,  $\frac{1}{5}$  of them have worked at the company for 4 years. How many employees have worked at the company for 4 years?

18. Vern has just opened a flower shop. Because of the startup costs, for the next month his net earnings for each bouquet are  $-\$2$ . On Tuesday during that month, he sold 20 bouquets. What are Vern's net earnings for Tuesday?

- A.  $-\$10$
- B.  $\$10$
- C.  $-\$40$
- D.  $\$40$

19. Luisa owes her brother's bike shop \$24 for fixing her bike. Her brother said he would give Luisa half off the debt. Which expression represents the new amount of Luisa's debt?

- A.  $-\frac{24}{12}$
- B.  $-\frac{24}{2}$
- C.  $-\frac{24}{(-2)}$
- D.  $-\frac{24}{(1/2)}$



20. Consider the expression below.

$$\frac{180}{9+5}$$

Which situation could the quotient represent?

- A. Janice has read 14 books. The average length of the books is 180 pages. The quotient represents the total number of pages in all 14 of Janice's books.
- B. Tammy has a bag of color tiles. There are 180 tiles in the bag. There are 9 red tiles and 5 green tiles in the bag. The quotient represents the percent of the tiles in the bag that are red or green.
- C. There are 5 classes going on a field trip. There are 180 sandwiches for the 5 classes and 9 sandwiches for the teachers. The quotient represents the average number of sandwiches for each class.
- D. A softball team must pay \$180 to attend a tournament. The team has 9 starters and 5 alternates. Each person on the team will pay an equal share of the fee. The quotient represents the amount of money, in dollars, that each player will pay.

21. The chess club ordered 40 pizzas to be divided equally among 120 participants. How much pizza will each participant get?

- A. 3 pizzas
- B. 2 pizzas
- C.  $\frac{1}{2}$  of a pizza
- D.  $\frac{1}{3}$  of a pizza

22. Which product is NOT equivalent to  $6(-4)$ ?

- A.  $(-6)4$
- B.  $(-6)(-4)$
- C.  $4(-6)$
- D.  $(-4)6$