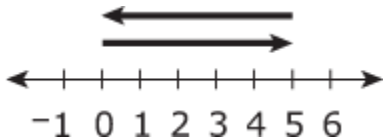


1. A certain company started the day with a stock value of $68\frac{1}{5}$ points. Over the next four days, the stock had a drop of $\frac{1}{2}$ point, a drop of $\frac{2}{5}$ point a rise of $1\frac{1}{5}$ points, and a rise of $\frac{2}{5}$ point. What was the value of the stock after the four days?

- A $65\frac{7}{10}$
- B $67\frac{1}{2}$
- C $68\frac{9}{10}$
- D $70\frac{7}{10}$

2. A number line is shown.



Which equation is **best** represented by the number line model?

- A $5 + -5 = 0$
- B $5 + -5 = 10$
- C $-5 + -5 = 0$
- D $-5 + -5 = -10$

3. A scuba diver is taking pictures of fish in the Atlantic Ocean. Starting at sea level, he dives $23\frac{1}{4}$ feet into the ocean and takes a set of pictures. He then rises 12.5 feet to take a second set of pictures. Finally, he dives 15 feet deeper to take his final set of pictures.

Part A: Write an expression involving addition to find the total change in the diver's elevation.

Part B: What is the total change in his elevation after taking the three sets of pictures?

4. Which two integers are 7 units away from the number 5 on a number line?

- A -2 and 2
- B -2 and 7
- C -7 and 7
- D -2 and 12

5. Where is the result of $-5 + 3$ located on the number line?

- A 3 units to the right of -5
- B 3 units to the left of -5
- C 5 units to the right of 3
- D 5 units to the left of -3

6. What does the value of $-8 - (-2)$ represent on the number line?

- A a value that is 2 units from -8 in the positive direction
- B a value that is 2 units from 8 in the positive direction
- C a value that is 2 units from -8 in the negative direction
- D a value that is 2 units from 8 in the negative direction

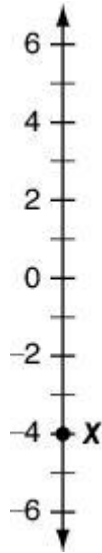
7. Point p is located at -6 on a number line. What statement describes a correct interpretation of the expression $-6 + |-1|$?

- A -5 is 1 unit from -6
- B -5 is 6 units from -1
- C -6 and -1 are 5 units apart
- D -6 and -1 are -5 units apart

8. The offense of a high school football team gained 8 yards on first down and then lost 5 yards on second down. What expression represents the total amount of yards gained by the offense?

- A $8 + (-5)$
- B $8 - (-5)$
- C $5 + (-8)$
- D $8 + (-5)$

9. Point X starts at -4 on the vertical number line.



Point X then goes through a series of moves:

- $+3$ units
- -2 units
- $+6$ units
- -5 units

What is the final position of Point X ?

- A** 3
- B** -2
- C** -4
- D** -5

10. Evaluate the expression below.

$$25 + (-17) + 16$$

If a 4th number was added to this expression to make the value of the new expression equal 0, what would the 4th number be?

- A** -26
- B** -24
- C** 24
- D** 26

11. Three friends, Susan, Rachel, and Mary, are staying in a hotel. Susan's room is 4 floors above Mary's room. Mary's room is 3 floors below Rachel's room. Rachel's room is on the eighth floor. On which floor is Susan staying?

- A fifteenth
- B ninth
- C seventh
- D first

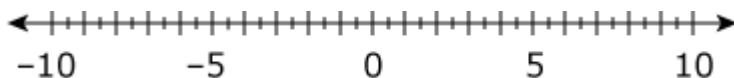
12. Use the equation below to answer the question.

$$-\frac{3}{2} + x = 0$$

What is the value of x in the given equation?

- A $-\frac{3}{2}$
- B -3
- C $\frac{3}{2}$
- D 3

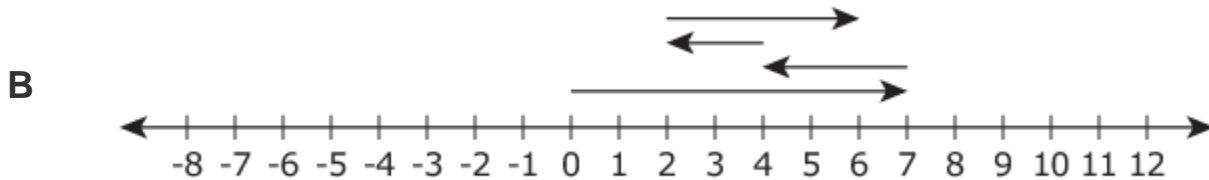
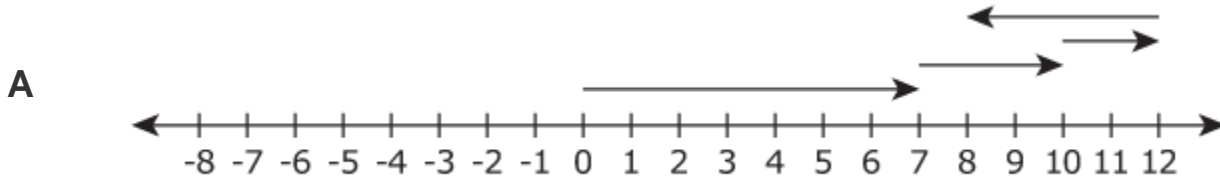
13. Tina chose two points on this number line.



If the distance between the two points is between 2 and 3 units, which pair of numbers could be the points Tina chose?

- A $-3\frac{1}{2}$ and 1
- B $-3\frac{1}{2}$ and -6
- C $3\frac{1}{2}$ and -4
- D $3\frac{1}{2}$ and 4

14. Which number line represents the expression $7 + (-3) + (-2) + 4$?



15. For a school science project, John noted the temperature at the same time every day for one week. The high temperature for the week was 27°F , and the low temperature for the week was -3°F . What is the difference between the high and low temperatures John recorded?

- A 30°F
- B 24°F
- C -24°F
- D -30°F

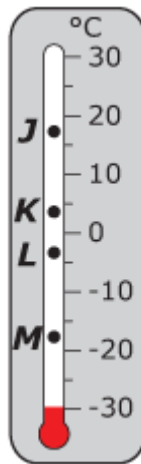
16. Which real-world context could be represented by $-2 + 5 + 7$?

- A A puppy's weight decreasing by 2 ounces, then gaining 5 ounces, and then gaining 7 ounces.
- B A share of stock losing 2 points, then losing 5 points, and then losing 7 points.
- C The temperature falling 2 degrees, rising 5 degrees, and then falling 7 degrees.
- D A bank statement showing a withdrawal of \$2, a withdrawal of \$5, and a deposit of \$7 for a bank account.

17. The total weight of a mother carrying a child is $145\frac{1}{2}$ pounds. If the child weighs n pounds and the mother weighs 138 pounds, which sum can be used to find n ?

- A $-145\frac{1}{2} + 138$
- B $145\frac{1}{2} + 138$
- C $-145\frac{1}{2} + (-138)$
- D $145\frac{1}{2} + (-138)$

18. On a winter day, the temperature at 8 a.m. was -6.8°C . At 2 p.m., the temperature had changed by 10.7°C .



Which points on the thermometer could be the temperature at 2 p.m.?

- A points J and K
- B points K and M
- C points L and M
- D points J and L