Name _____

1.   Let a be a positive number and b a negative number.

    a.   Will $a + a$ be a positive number,   _____
a negative number, or zero?

    b.   Will $b + b$ be a positive number,   _____
a negative number, or zero?

2.   Determine whether the following statements are true or false:

    a.   The sum of two positive numbers   _____
is always a positive number.

    b.   The sum of a negative number and a positive   _____
number is always a negative number.

3.   State whether each sum is a positive number, a negative number, or zero.

    a. $-17 + (-16)$ _____

        A) Positive   B) Negative   C) Zero

    b. $-17 + 28$ _____

        A) Positive   B) Negative   C) Zero

    c. $9 + (-9)$ _____

        A) Positive   B) Negative   C) Zero

4.   Consider the sum $-3 + 6$.

    a.   Which number has the greater absolute value?   _____

        A) -3 B) 6

    b.   Will the sum be positive or negative?   _____

        A) Positive   B) Negative

    c.   Evaluate the sum   _____

5.   Consider the sum $-23 + 14$.

   a.   Which number has the greater absolute value?   _____

   A) -23 B) 14

   b.   Will the sum be positive or negative?   _____

   A) Positive   B) Negative

   c.   Evaluate the sum   _____

6.   Consider the sum $4 + (-9)$.

   a.   Which number has the greater absolute value?   _____

   A) -9 B) 4

   b.   Will the sum be positive or negative?   _____

   A) Positive   B) Negative

   c.   Evaluate the sum   _____

7.   Evaluate: $-9 + (-11)$ _____

8.   Evaluate: $-14 + 9$ _____

9.   Evaluate: $9 + (-3)$ _____

10.   Evaluate: $-8 + 0$ _____

11.   Evaluate: $-4 + 2$ _____

12.   Evaluate: $-7 + 7$ _____

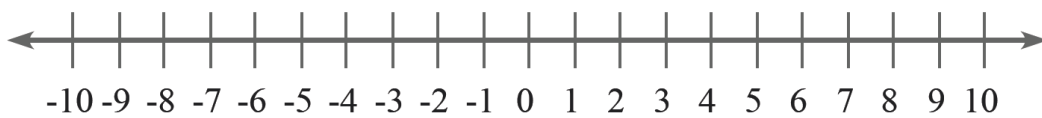**13.** Evaluate: $-4 + 5$ _____

14. Evaluate: $4 + (-6) + 8$ _____

15. Evaluate: $-3 + 2 + 4$ _____

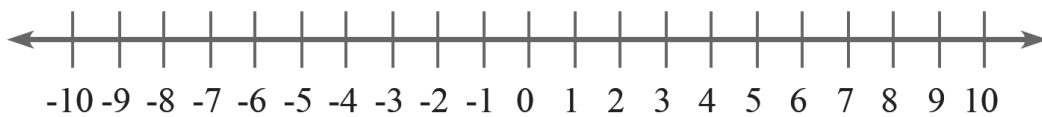**16.** Evaluate: $-18 + 9 + 3$ _____

17. Plot the answer to the sum $4 + (-2)$ on the number line.

-10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10
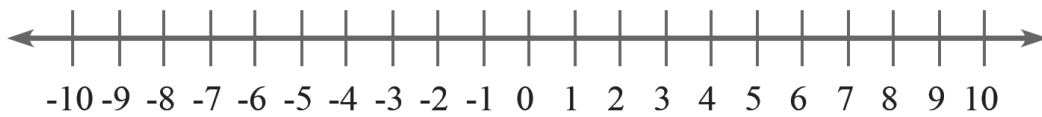
18. Plot the answer to the sum $-5 + 3$ on the number line.

-10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10

19. Plot the answer to the sum $-3 + (-5)$ on the number line.

-10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10

20.   Consider each number line below and fill in the following blanks.

a.
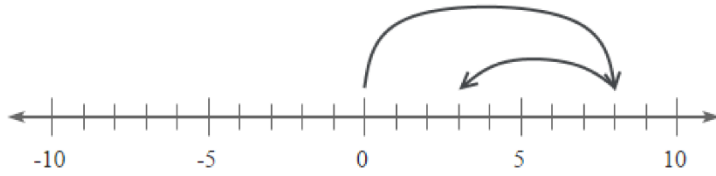
The number sentence represented by these arrows is _____ + _____ = _____

b.
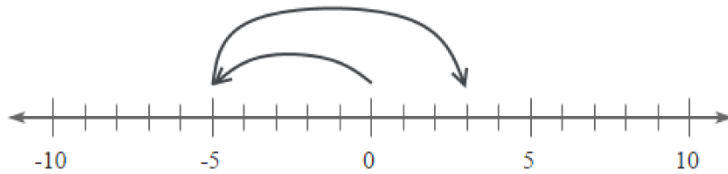
The number sentence represented by these arrows is _____ + _____ = _____
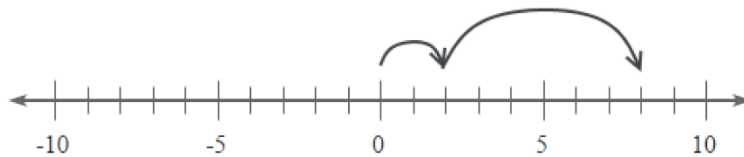
c. Is the statement $8 + (-5) = -5 + 8$ true or false?   _____

21.   Consider the following sum: "The beginning value is 2, and the sum lies 6 units to the right of the beginning value."
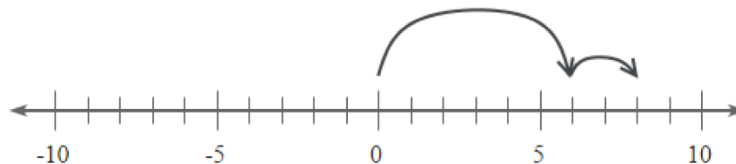
a. Complete the number sentence for this sum: $2 + $ _____ = _____

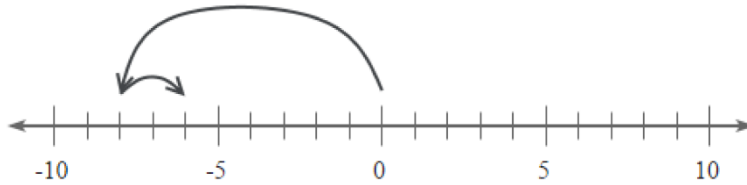**b.** Which number line represents this sum?   _____

A.

B.

22. Consider the following sum: "The beginning value is 2, and the sum lies 8 units to the left of the beginning value."
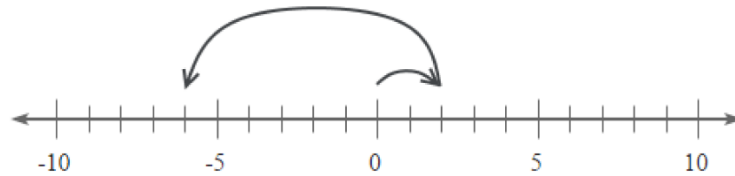
a. Complete the number sentence for this sum: $2 +$ _____ $=$ _____

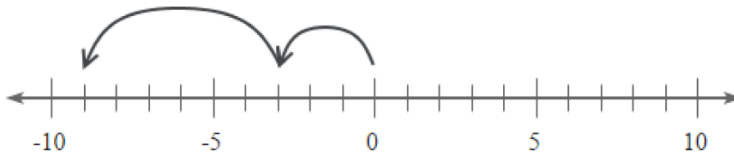b. Which number line represents this sum?   _____

A.

B.

23. Consider the following sum: "The beginning value is -3, and the sum lies 6 units to the left of the beginning value."
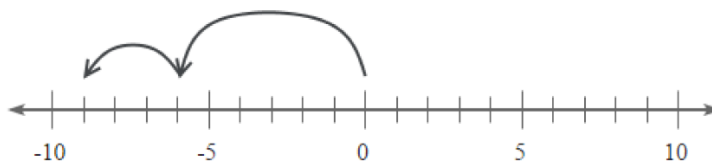
a. Complete the number sentence for this sum: $-3 +$ _____ $=$ _____

b. Which number line represents this sum?   _____

A.

B.

24.   Express the outcome of this statement as an integer: _____
           "diving 9 meters downward, followed by rising 5 meters"

25.   Express the outcome of this statement as an integer: _____
           "an increase of 9 kilograms followed by a decrease of 5 kilograms"

26.   Ben accidentally left his freezer door open overnight.   _____
           In the morning, the temperature of the freezer had risen 24°
           from its usual temperature of $-16°$. What temperature did Ben's freezer reach?