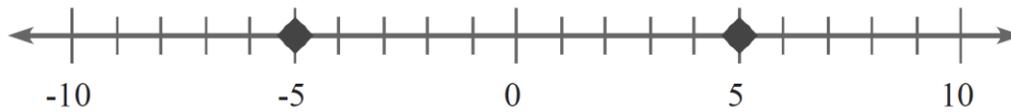
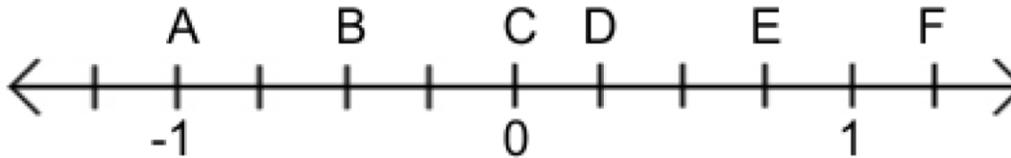


1. The numbers 5 and -5 have been marked on the number line. _____
Which of the following is true?

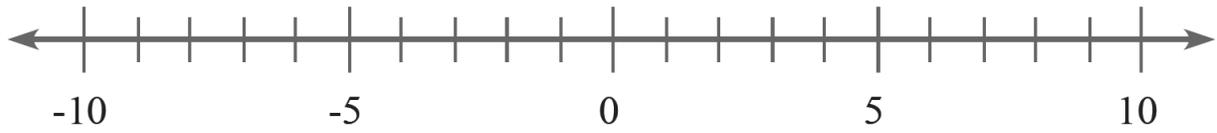


- A) 5 and -5 appear on opposite sides of 0, but are not the same distance from 0.
B) 5 and -5 are the same distance from 0, and have the same value.
C) 5 and -5 are the same distance from 0, but do not have the same value.
2. Match each value to the correct letter marked on this number line.



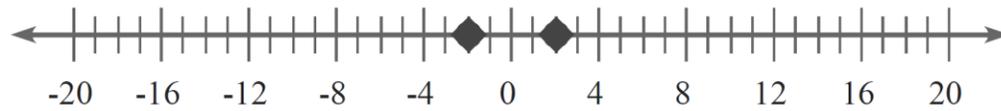
- a. 0 is marked by the letter _____ b. 1.25 is marked by the letter _____
c. $-\frac{1}{2}$ is marked by the letter _____ d. -1 is marked by the letter _____
e. 0.25 is marked by the letter _____ f. $\frac{3}{4}$ is marked by the letter _____
3. Two integers are opposites if: _____
- A) They multiply to give zero.
B) One integer is positive and the other is negative.
C) Their graphs are the same distance from 0 on the number line, and are on the same side of zero.
D) Their graphs are the same distance from 0 on the number line, and are on different sides of zero.

4. Using the number line below:



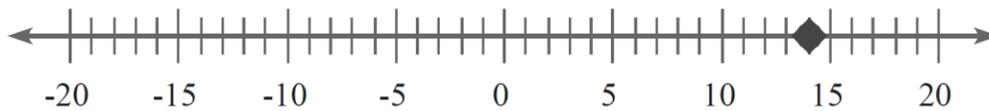
- a. Mark the number 8 with a dot.
- b. Mark the opposite of 8 with an X.
- c. What integer represents the opposite of 8? _____

5. Consider the two numbers marked on the number line.



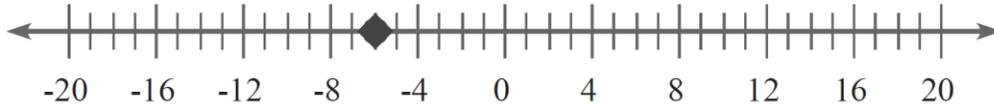
- a. How far is 0 from each number? _____
- b. If the number on the right hand side is 2, state the other number. _____

6. Consider the number marked on the number line.



- a. State the number that has been marked. _____
- b. What is the opposite of the number marked? _____

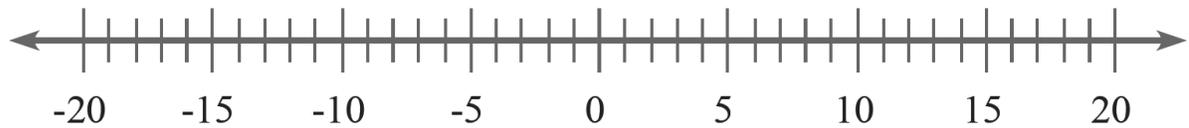
7. Consider the number marked on the number line.



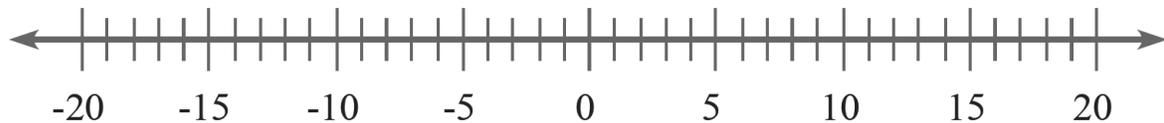
a. State the number that has been marked. _____

b. What is the opposite of the number marked? _____

8. On the number line below, mark the number -19 with a dot, and the opposite of -19 with an X.



9. On the number line below, mark the number that is the opposite of -3 with a dot.

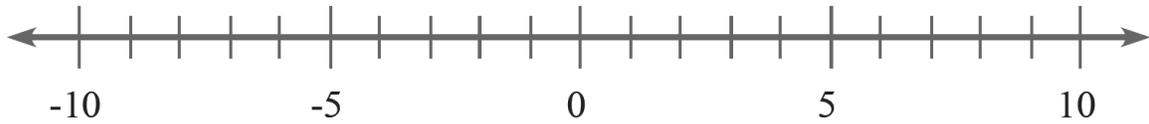


10a. State the opposite of the number 10. _____

b. State the opposite of the number -10 . _____

c. Is the opposite of a number always larger than the number itself?
(Yes or No) _____

- 11a. On the number line below mark the opposite of the number 5 with a dot.
- b. On the number line below mark the opposite of the number -5 with an X.



- c. The opposite of the opposite of a number is the same as: _____
 A) The opposite of the original number. B) The original number itself.

- d. Which of the following is an expression for the “opposite of -5 ”? _____
 (Select *all* correct options)
 A) 5 B) $-(-5)$ C) -5

- 12. What is the simplest way to write $-(-9)$? _____

- 13a. State the integer that is the opposite of thirty-three. _____

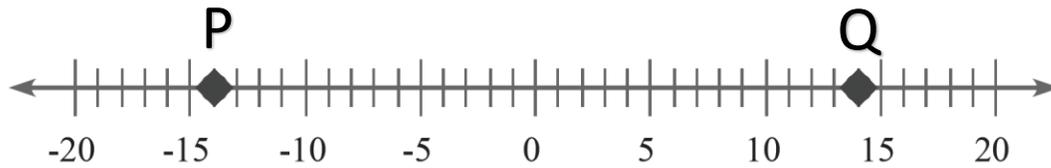
- b. State the integer that is the opposite of the opposite of 7. _____

- c. State the integer that is the opposite of the opposite of -14 . _____

- 14. If the opposite of a number is -17 , what is the original number? _____

- 15. What is the opposite of 0? _____

16. Which of the points represents the opposite of the opposite of -14 ? _____



17. A gain of \$200 can be represented by the integer 200.

a. Which of the following represents the opposite of this situation? _____

- A) Losing \$400 B) Losing \$200 C) Gaining another \$200

b. State the integer that represents your answer from part a. _____

18. A temperature of 7 degrees below zero can be represented by the integer -7 . Write the integer that is the opposite of this temperature reading. _____

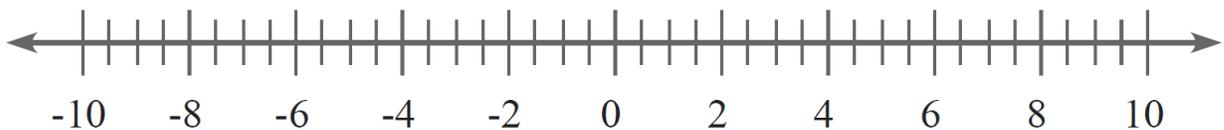
19. A mountain peak is at 5800 feet above sea level.
An ocean trench is found to be the same distance below sea level.

a. Write the integer that represents the ocean trench's depth. _____

b. In this scenario, what does the integer 0 represent? _____

- A) Being below sea level B) Being at sea level C) Being above sea level

20. At high tide the water level was 7.5 feet above a marker, and at low tide the water level was 7.5 feet below the marker. Mark the high and low tide measure on the number line.



21. What is the additive inverse of 23? _____

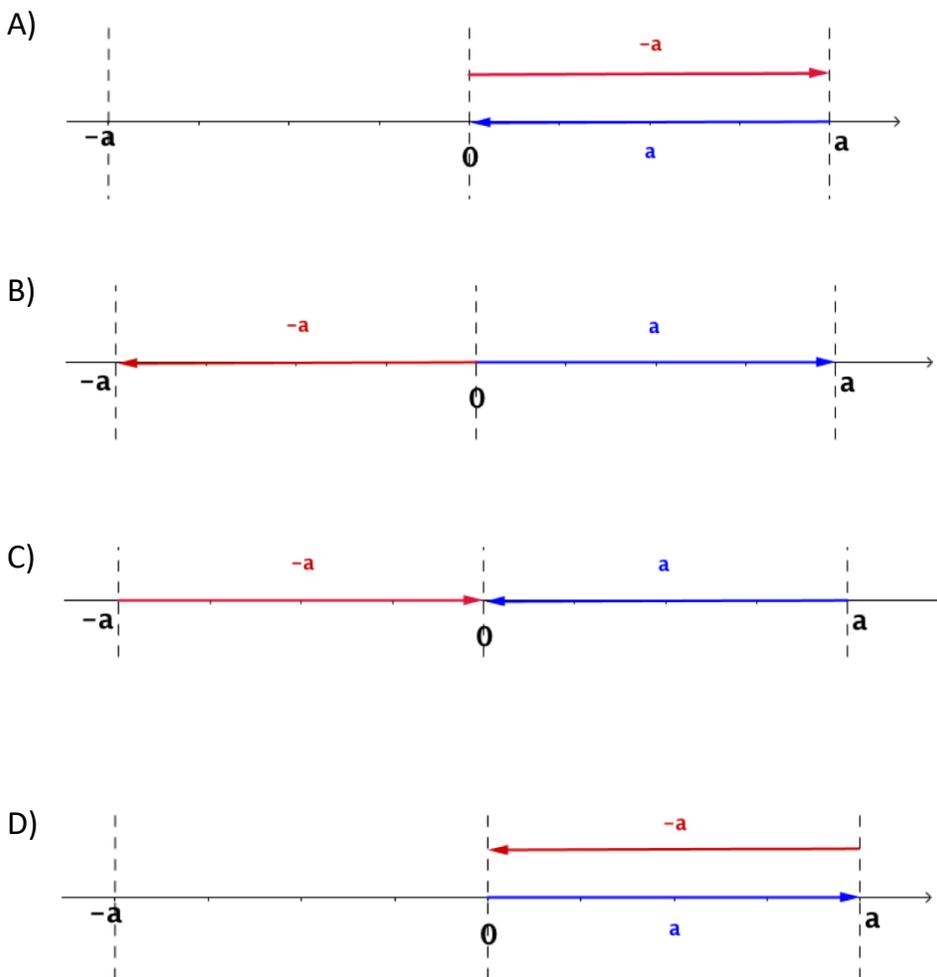
22. What is the additive inverse of -27 ? _____

23. What is the additive inverse of $\frac{25}{3}$? _____

24. What is the additive inverse of -11.95 ? _____

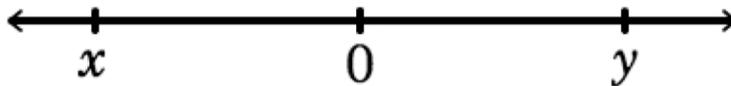
25. The property of additive inverse can be shown as $a + (-a) = 0$, where $-a$ is the additive inverse of a .

Which of the number lines below best represents this property? _____



26. You have two numbered cards in your hand.
The sum of the numbers is 0.
If the number on one of the cards is -7 ,
what is the number on the other card?

27. On the number line attached, the numbers x and y are
the same distance from 0. What is the sum of $x + y$?



28. While surfing, a wave wipes Bill out and carries him 6 yards
away from his board. A second wave carries him 10 yards further.
How many yards must he swim back to the board?
