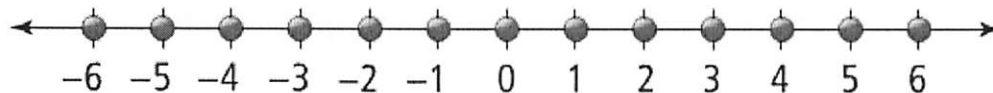


"I Can Explain How Positive and Negative Numbers Relate to Real-World Examples and the Meaning of 0 in each."

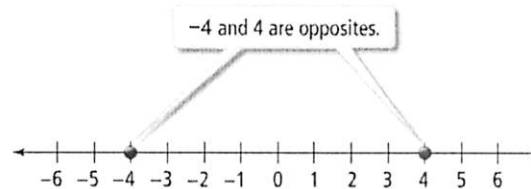
"I Understand the Relationship of a Number and its Opposite and Can Recognize that the Opposite of a Number's Opposite is the Number itself."

Integers and the Number Line

Integers: the set of positive and negative whole numbers along with 0.



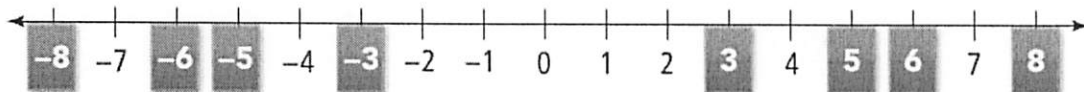
Opposites: two numbers that are the same distance from 0 on a number line but in opposite directions



What is the opposite of... 9 _____ 3 _____ -10 _____ 0 _____

Example

Which integer represents each situation?



a. 5 degrees below zero

b. a gain of 8 yards

c. a loss of 6 dollars

d. 3 steps backward

Got It?

The lowest point in the United States is in Death Valley. Its elevation is 282 ft below sea level. Express this elevation as an integer.

What does zero mean in this situation? _____

A boxer gained 12 pounds of muscle to train for a fight. _____

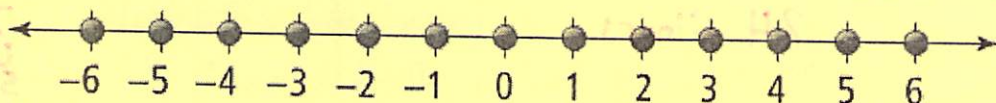
What does zero mean in this situation? _____

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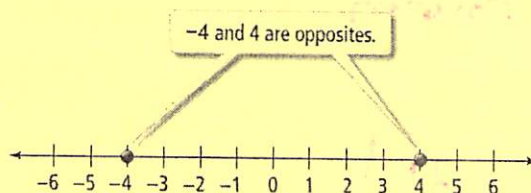
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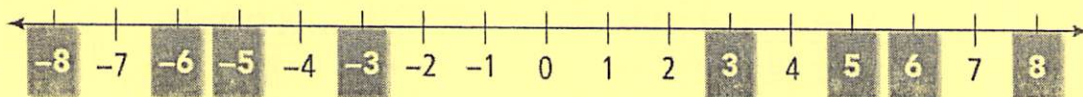
Opposites: two numbers that are the same distance from 0 on a number line but in opposite directions



What is the opposite of... 9 -9 3 -3 -10 -(-10) 0 0
10

Example

Which integer represents each situation?



a. 5 degrees below zero -5

b. a gain of 8 yards 8

c. a loss of 6 dollars -6

d. 3 steps backward -3

Got It?

The lowest point in the United States is in Death Valley. Its elevation is 282 ft below sea level. Express this elevation as an integer.

-282

What does zero mean in this situation? sea level

A boxer gained 12 pounds of muscle to train for a fight. + 12

What does zero mean in this situation? boxer's starting weight