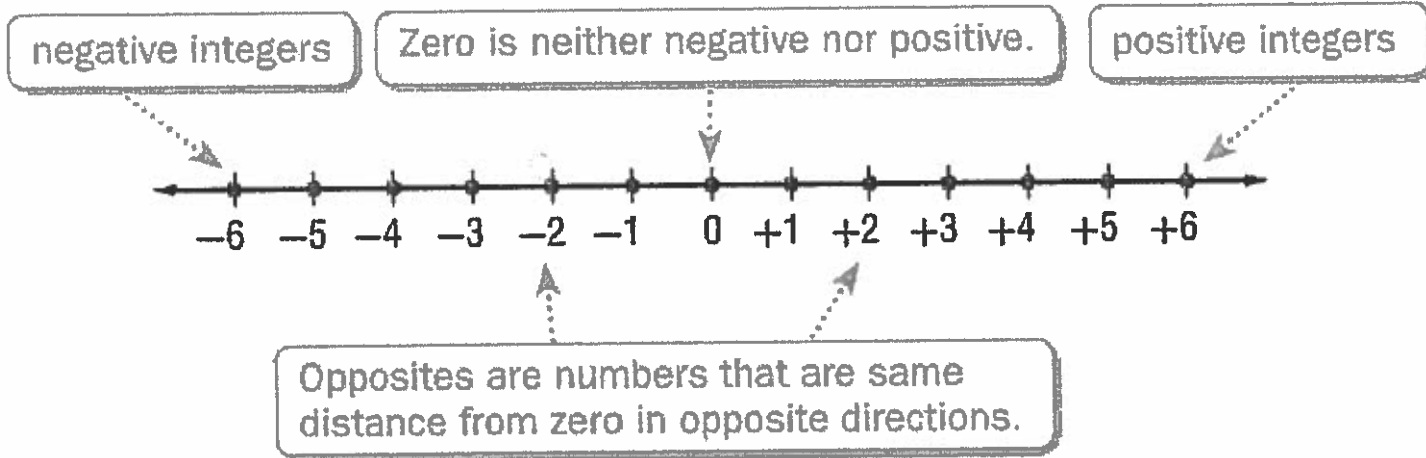


5.1 Integers and Graphing (6.NS.5, 6.NS.6, 6.NS.6a, and 6.NS.6c)

Use Integers to Represent Data

- Positive whole numbers, their opposites, and zero are called integers.
- To represent data that are less than a 0, you can use negative integers.
- A negative integer is written with a - sign.
- Data that is greater than zero is represented by a positive integer.



Guided Practice

Write an integer for each situation. Explain the meaning of zero in each situation.

1.) 15-yard gain

Integer: 15

Meaning of Zero:

no gain or loss of yards

2.) Loss of 2 hours

Integer: -2

Meaning of Zero:

no gain or loss of hours

3.) Fill in the table.

Situation	Write an integer for this situation	Explain the meaning of zero	Opposite situation	Write the opposite integer.
I <u>withdrew</u> \$5.	<u>-5</u>	<u>no gain or loss of \$</u>	<u>1 deposit \$5.</u>	<u>5</u>
Joy makes a 3 point <u>gain</u> on a test.	<u>+3</u>	<u>no gain or loss of points</u>	<u>Joy makes a 3 pt loss on a test.</u>	<u>-3</u>

Graph each integer or set of integers on a number line.

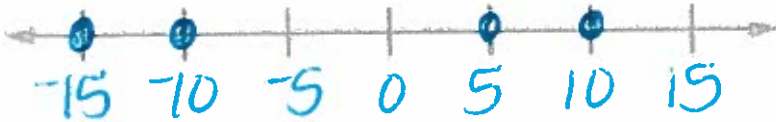
4.) -2



5.) {-1, 1, 0}



USE MATH TOOLS The table show the number of points earned for each action in a video game. While playing the video game, Leo jumped over a rock, climbed a mountain, fell in water, and walked through quicksand. Graph the number of points he earned for each action on the number line.



Action	Points
fall in water	-10
walk over a bridge	+5
climb mountain	+10
jump over rock	+5
walk through quicksand	-15
touch cactus	-15

Write an integer for the situation. Explain the meaning of zero. State the opposite. Graph the integers.

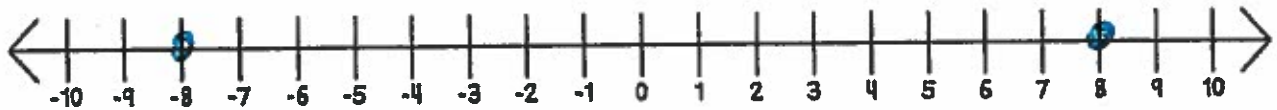
7.) Justin made an 8-yard gain on the carry.

Integer: 8

Meaning of Zero:

no gain or loss of yds

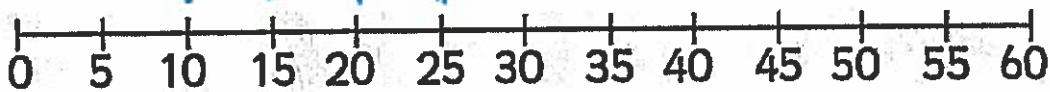
Opposite: -8



Partner Talk

A football team receives the ball on their own 10-yard line. They make a gain of 15 yards in the first play. What yard line is the ball on?

25 yard line



Building on the Essential Question - How can you use integers to represent data?

elevation, temperature, money

Rate yourself

Are you ready to move on? Check the box that matches your confidence.



← Rate yourself!