Explore Integers and Their Opposites

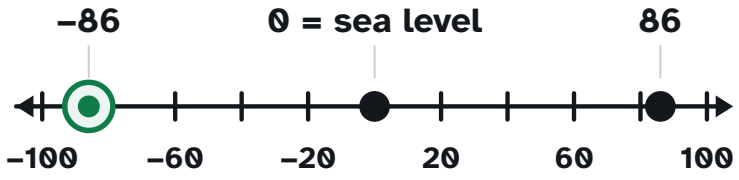
Use integers for real situations and name the opposite of a number.

Name _____ **Date** _____

Tonight's spark

A park sign says Badwater Basin is 86 meters below sea level. Sea level is the starting point, 0. What number should the sign use?

Guess first: is the number above 0 or below 0?



Our class model: zero and the number line

Try it

Work it out on paper. Write one answer on each line.

1 **Which integer shows 8 degrees below zero?**

A. 8 **B.** −8 **C.** 0

My answer _____

2 **What is the opposite of 6?**

A. −6 **B.** 6 **C.** 1/6 **D.** 0

My answer _____

3 **A bank account goes up by $20. Which integer shows the change?**

A. −20 **B.** 0 **C.** −2 **D.** 20

My answer _____

4 **A submarine is at −30 meters. What does 0 stand for?**

A. The bottom of the ocean **B.** Sea level **C.** 30 meters up
D. The speed of the submarine

My answer _____

5 **What is the opposite of −15?**

A. −15 **B.** −5 **C.** 15 **D.** 0

My answer _____

6 **A point is 7 units to the left of 0 on the number line. Which integer is it?**

A. 7 **B.** 1/7 **C.** −7 **D.** 0

My answer _____

Talk about it

What does 0 mean in this story? Which side of 0 is the number on, and what is its opposite?

Home mission

Say the kitchen floor is sea level, 0. The pantry is 3 steps below it. Can your student say the integer, then its opposite?

If we get stuck, ask

- What does 0 stand for in this story? Start there.
- Is this amount above 0 or below 0? That decides the sign.
- How many units from 0 is it? Jump that same distance the other way to find the opposite.

Do it on a screen
Scan or type the link. Same lesson, with hints.
eduwonderlab.com/lessons/7-1/homework.html

How did it feel? (optional)

Tricky Getting there Got it