

Lesson 7-1 • Apply Day

Reinforce Understanding

Integers in Real Situations

I can use integers to represent quantities in everyday life, explain what 0 means in each situation, and name the opposite of an integer on the number line.

Worked model

A freezer gauge read -33 degrees. It changed to the opposite of that reading, then changed again to the opposite of the new reading.

1. Start with the first reading. -33 It sits 33 units to the left of 0.
2. Take the opposite: same distance, other side. second reading = 33
3. Take the opposite again: flip back across 0. third reading = -33
4. Check: two flips land you on the number you started with.

Answer: The readings are 33, then -33 — the opposite of the opposite is the original number.

Practice

Complete each exercise. Show the reasoning that supports your answer.

1. A diver is 4 feet below the surface. Write the integer, then its opposite.

Complete each step, then write the final answer.

1. Below/lost/owed means negative: the integer is ____.
2. The opposite sits the same distance from 0 on the other side: ____.
3. Both are ____ units from zero, and here zero means the surface.

Answer: _____

2. The temperature is 6 degrees below zero. Write the integer, then its opposite.

Complete each step, then write the final answer.

1. Below/lost/owed means negative: the integer is ____.
2. The opposite sits the same distance from 0 on the other side: ____.
3. Both are ____ units from zero, and here zero means zero degrees.

Answer: _____

3. A player loses 8 points. Write the integer, then its opposite.

Complete each step, then write the final answer.

1. Below/lost/owed means negative: the integer is ____.
2. The opposite sits the same distance from 0 on the other side: ____.
3. Both are ____ units from zero, and here zero means no change in score.

Answer: _____