

Lesson 7-4 • Apply Day

Reinforce Understanding

Ordering Integers and Rational Numbers

I can compare and order integers using a number line.

Worked model

Three wells have floors at -418 feet, -96 feet, and $-1,240$ feet. Order the depths from least to greatest.

1. All three numbers are negative, so every point lands to the left of 0.
2. Farther left means less. Sketch a line and place the three points on it.
3. Read the line left to right: $-1,240$, -418 , -96
4. Check with absolute value: the least number sits farthest from 0.

Answer: $-1,240 < -418 < -96$, so the order is $-1,240$, -418 , -96 .

Practice

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

1. (Lesson 7.3) Find the absolute value of the new integer -4 .

Complete each step, then write the final answer.

1. Distance from zero ignores direction: ____.
2. Write the absolute value: ____.

Answer: _____

2. (Lesson 7.3) Find the absolute value of the new integer -6 .

Complete each step, then write the final answer.

1. Distance from zero ignores direction: ____.
2. Write the absolute value: ____.

Answer: _____

3. (Lesson 7.3) Find the absolute value of the new integer -8 .

Complete each step, then write the final answer.

1. Distance from zero ignores direction: ____.
2. Write the absolute value: ____.

Answer: _____