Name _____ Date _____ Period _____

**Lesson 7-3**

# Reinforce Understanding

## Understand Absolute Value of Rational Numbers

**I can find the absolute value of a rational number — an integer, fraction, or decimal — as its distance from zero.**

### Worked model

**One freezer logged −23 degrees and another logged 17 degrees. Which reading sits closer to 0?**

1. Absolute value measures distance from 0, so the sign does not matter here.
2. Distance from 0 for the first reading: −23 = 23
3. Distance from 0 for the second reading: 17 = 17
4. Compare the two distances; the shorter distance sits closer to 0.

**Answer: |−23**

### Practice

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

**1. Match each integer to its absolute value.**

Write the letter of the matching item on each line.

1. _____-5
2. _____3
3. _____-8
4. _____0
5. _____-1
6. _____7

- A5
- B3
- C8
- D0
- E1
- F7

**2. Plot these integers on the number line: -6, -2, 0, 4, 7**

Mark and label each value on the number line.

**Show your thinking**