REVIEW: Comparing, Ordering, and Graphing Integers

Name _____

Key Concept and Vocabulary

zero

..., −3, −2, −1, 0, 1, 2, 3, ... (Integers)

negative integers

positive integers

Visual Model

Number Line

−4 < 2 because −4 is to the left of 2 on the number line.
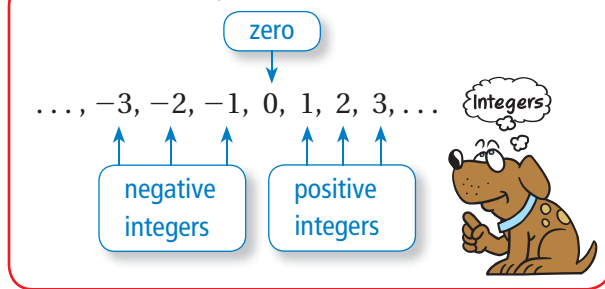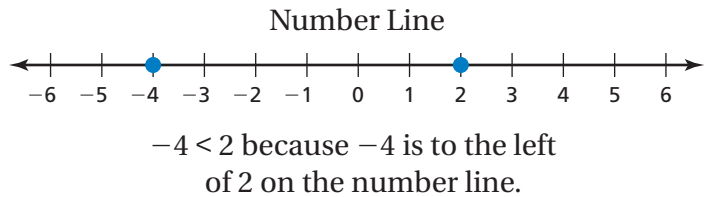
Skill Examples

1. $0 \le 4$ "0 is less than or equal to 4"

2. $-1 > -3$ "−1 is greater than −3"

3. $-2 < -1$ "−2 is less than −1"

4. $2 > -2$ "2 is greater than −2"

5. $3 \ge 2$ "3 is greater than or equal to 2"

Application Example

6. The temperature in Seattle is 4°F. The temperature in Denver is −6°F. Which temperature is greater?
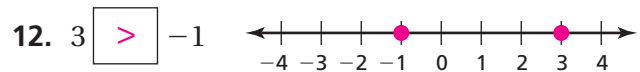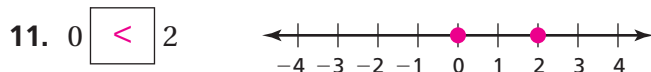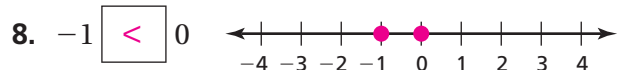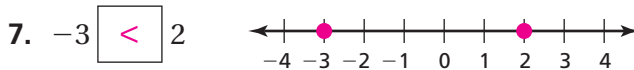
$-6 < 4$ "−6 is less than 4"

The temperature is greater in Seattle.

PRACTICE MAKES *PURR*-FECT™

Check your answers at BigIdeasMath.com.

Graph the two numbers. Then compare them using < or >.

7. -3 [<] 2

8. -1 [<] 0

9. -1 [>] -4

10. 1 [<] 3

11. 0 [<] 2

12. 3 [>] -1

Order the temperatures from least to greatest.

13. −5°F, 13°F, 0°F, 5°F, 2°F, 20°F

    −5°F, 0°F, 2°F, 5°F, 13°F, 20°F

14. 7°C, −4°C, −11°C, 0°C, 8°C, −12°C

    −12°C, −11°C, −4°C, 0°C, 7°C, 8°C

Use an integer to describe the real-life situation.

15. A *profit* of $5 ____5____

    A *loss* of $5 ____−5____

16. A *depth* of 8 ft ____−8____

    A *height* of 4 ft ____4____

17. A *decrease* of 5°F ____−5____

    An *increase* of 8°F ____8____

18. **BUSINESS LOSS** During its first week, a business had a loss that was greater than $4, but less than $6. Circle each integer that could represent this loss.

    −$7,   −$6,   (−$5,)   −$4,   −$3,   −$2,   −$1, $0, $1, $2, $3, $4, $5, $6, $7