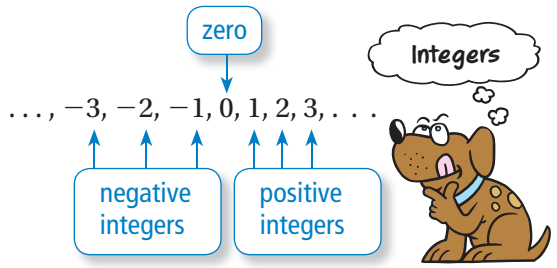
REVIEW: Comparing, Ordering, and Graphing Integers

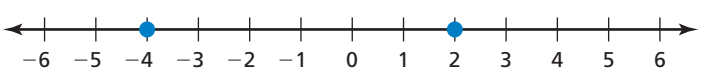
Name _____

Key Concept and Vocabulary



Visual Model

Number Line



$-4 < 2$ because -4 is to the left of 2 on the number line.

Skill Examples

1. $0 \leq 4$ "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. $3 \geq 2$ "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.

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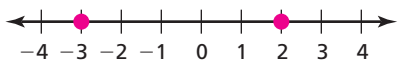
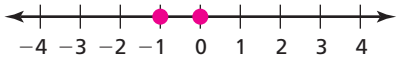
Check your answers at BigIdeasMath.com.

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

7. -3 [<] 2



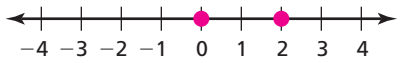
8. -1 [<] 0



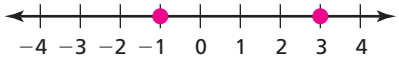
9. -1 [>] -4

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

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