

6 Chapter Review



Review Key Vocabulary

positive numbers, p. 250
 negative numbers, p. 250
 opposites, p. 250

integers, p. 250
 absolute value, p. 270
 coordinate plane, p. 276

origin, p. 276
 quadrants, p. 276

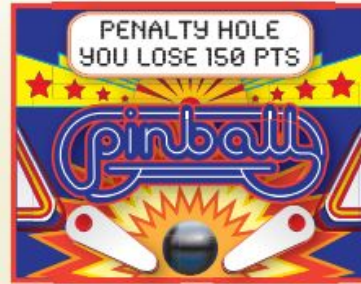
Review Examples and Exercises

6.1 Integers (pp. 248–253)

Write a positive or negative integer to represent losing 150 points in a pinball game.

“Lose” indicates a number less than 0. So, use a negative integer.

••• -150



Exercises

Write a positive or negative integer that represents the situation.

1. An elevator goes down 8 floors.
2. You earn \$12.

Graph the integer and its opposite.

3. -7

4. 13

5. 4

6. -100

3. _____

4. _____

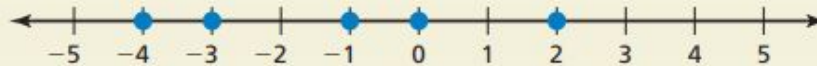
5. _____

6. _____

6.2 Comparing and Ordering Integers (pp. 254–259)

Order $-3, -4, 2, 0, -1$ from least to greatest.

Graph each integer on a number line.



Write the integers as they appear on the number line from left to right.

∴ So, the order from least to greatest is $-4, -3, -1, 0, 2$.

Exercises

Order the integers from least to greatest.

7. $-5, 4, 2, -3, -1$

8. $5, -20, -10, 10, 15$

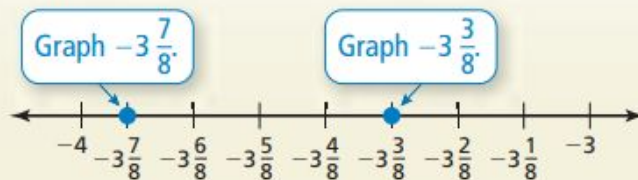
9. Order the temperatures $-3^{\circ}\text{C}, 8^{\circ}\text{C}, -12^{\circ}\text{C}, -7^{\circ}\text{C},$ and 0°C from coldest to warmest.

7. _____ 8. _____

9. _____

6.3 Fractions and Decimals on the Number Line (pp. 260–265)

Compare $-3\frac{7}{8}$ and $-3\frac{3}{8}$.



$-3\frac{7}{8}$ is to the left of $-3\frac{3}{8}$.

∴ So, $-3\frac{7}{8} < -3\frac{3}{8}$.

Exercises

Graph the number and its opposite.

10. $-\frac{2}{5}$

11. $1\frac{3}{4}$

12. -1.2

13. 2.75

10. _____

11. _____

12. _____

13. _____

Copy and complete the statement using $<$ or $>$.

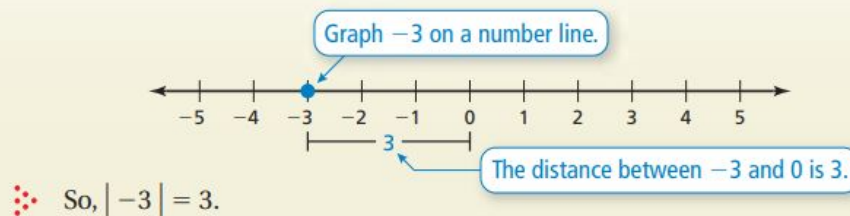
14. $-2\frac{1}{6}$ $-2\frac{5}{6}$

15. $-\frac{1}{3}$ $-\frac{1}{8}$

16. -3.27 -2.68

6.4 Absolute Value (pp. 268–273)

Find the absolute value of -3 .



Exercises

Find the absolute value.

17. $|-8|$

18. $|13|$

19. $\left|3\frac{6}{7}\right|$

20. $|-1.34|$

Copy and complete the statement using $<$, $>$, or $=$.

21. $|-2|$ 2

22. $|4.4|$ $|-2.8|$

23. $\left|\frac{1}{6}\right|$ $\left|-\frac{2}{9}\right|$

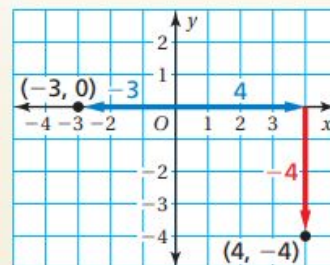
6.5 The Coordinate Plane (pp. 274–283)

a. Plot $(-3, 0)$ and $(4, -4)$ in a coordinate plane. Describe the location of each point.

To plot $(-3, 0)$, start at the origin. Move 3 units left. Then plot the point.

To plot $(4, -4)$, start at the origin. Move 4 units right and 4 units down. Then plot the point.

- The point $(-3, 0)$ is on the x -axis.
- The point $(4, -4)$ is in Quadrant IV.



Exercises

Plot the ordered pair in a coordinate plane. Describe the location of the point.

24. $A(1, 3)$

25. $B(0, -3)$

26. $C(-4, -2)$

27. $D(-1, 2)$

Use a grid to plot the ordered pair. Describe its location below.

24. _____

25. _____

26. _____

27. _____

