

1 Chapter Review

Review Key Vocabulary

integer, p. 4

absolute value, p. 4

opposites, p. 10

additive inverse, p. 10

coordinate plane, p. 36

origin, p. 36

quadrant, p. 36

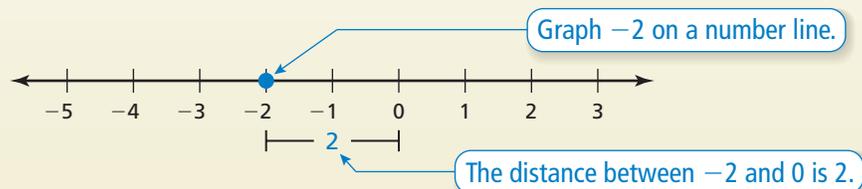
x-axis, p. 36

y-axis, p. 36

Review Examples and Exercises

1.1 Integers and Absolute Value (pp. 2–7)

Find the absolute value of -2 .



So, $|-2| = 2$.

Exercises

Find the absolute value of the integer.

1. 3

2. -9

3. -17

4. 8

5. **ELEVATION** The elevation of Death Valley, CA is -282 feet. The Mississippi River in Illinois has an elevation of 279 feet. Which is closer to sea level?

1.2 Adding Integers (pp. 8–13)

Find $6 + (-14)$.

$$6 + (-14) = -8$$

$|6|$ is less than $|-14|$. So, subtract $|6|$ from $|-14|$.

Use the sign of -14 .

The sum is -8 .

Exercises

Add.

6. $-16 + (-11)$

7. $-15 + 5$

8. $100 + (-75)$

9. $-32 + (-2)$

1.3 Subtracting Integers (pp. 14–19)

Subtract.

a. $7 - 19 = 7 + (-19)$ Add the opposite of 19.
 $= -12$ Add.

∴ The difference is -12 .

b. $-6 - (-10) = -6 + 10$ Add the opposite of -10 .
 $= 4$ Add.

∴ The difference is 4.

Exercises

Subtract.

10. $8 - 18$

11. $-16 - (-5)$

12. $-18 - 7$

13. $-12 - (-27)$

14. **GAME SHOW** Your score on a game show is -300 . You answer the final question incorrectly, so you lose 400 points. What is your final score?

1.4 Multiplying Integers (pp. 22–27)

a. Find $-7 \cdot (-9)$.

The integers have the same sign.

$$-7 \cdot (-9) = 63$$

The product is positive.

∴ The product is 63.

b. Find $-6(14)$.

The integers have different signs.

$$-6(14) = -84$$

The product is negative.

∴ The product is -84 .

Exercises

Multiply.

15. $-8 \cdot 6$

16. $10(-7)$

17. $-3 \cdot (-6)$

18. $-12(5)$

1.5 Dividing Integers (pp. 28–33)

Find $30 \div (-10)$.

The integers have different signs.

$$30 \div (-10) = -3$$

The quotient is negative.

∴ The quotient is -3 .

Exercises

Divide.

19. $-18 \div 9$ 20. $\frac{-42}{-6}$ 21. $\frac{-30}{6}$ 22. $84 \div (-7)$

Find the mean of the integers.

23. $-3, -8, 12, -15, 9$ 24. $-54, -32, -70, -25, -65, -42$

25. **PROFITS** The table shows the weekly profits of a fruit vendor. What is the mean profit for these weeks?

Week	1	2	3	4
Profit	-\$125	-\$86	\$54	-\$35

1.6 The Coordinate Plane (pp. 34–39)

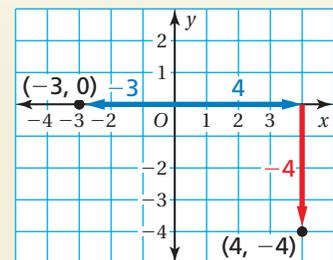
Plot (a) $(-3, 0)$ and (b) $(4, -4)$ in a coordinate plane. Describe the location of each point.

a. Start at the origin. Move 3 units left. Then plot the point.

The point is on the x -axis.

b. Start at the origin. Move 4 units right and 4 units down. Then plot the point.

The point is in Quadrant IV.



Exercises

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

26. $A(1, 3)$ 27. $B(0, -3)$ 28. $C(-4, -2)$ 29. $D(-1, 2)$

30. **GEOMETRY** The points $A(-3, 5)$, $B(-3, -3)$, and $C(4, -3)$ are vertices of a figure. Draw the figure in a coordinate plane. Name three points that lie inside the figure.