

# Mid-Chapter Check

## Vocabulary Check



1. **MP Be Precise** Define *multiplicative inverse*. Give an example of a number and its multiplicative inverse. (Lesson 1)

**Sample answer:** The product of a number and its multiplicative inverse

is 1;  $\frac{2}{3} \cdot \frac{3}{2} = 1$

2. Fill in the blank in the sentence below with the correct term. (Lesson 2)

The first step in solving the equation  $3x + 4 = 20$  is to **subtract 4**

from each side. This is an example of the **Subtraction** Property of

**Equality**.

## Skills Check and Problem Solving

Solve each equation. Check your solution. (Lessons 1-2)

3.  $\frac{2}{3}x = -8$  **-12**

4.  $-4.5 = -0.15p$  **30**

5.  $2\frac{1}{3}c = 2\frac{1}{10}$   **$\frac{9}{10}$**

Show your work





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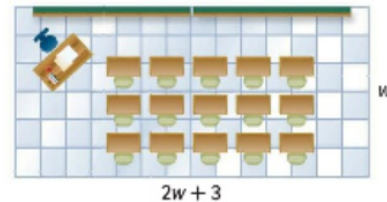
6.  $3m + 5 = 14$  **3**

7.  $-2k + 7 = -3$  **5**

8.  $11 = \frac{1}{3}a + 2$  **27**

9. **MP Persevere with Problems** A diagram of a room is shown. If the perimeter of the room is 78 feet, what is the area of the floor of the room? (Lesson 3)

**324 ft<sup>2</sup>**



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