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**

Show your work.

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

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

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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 ft²