

**LESSON**  
**12-1**

# Writing Equations to Represent Situations

## Practice and Problem Solving: D

Is the given value of the variable a solution of the equation?  
Write *yes* or *no*. The first one is done for you.

$4 + 1 = 5$

- |                                     |                                       |
|-------------------------------------|---------------------------------------|
| 1. $x + 1 = 5$ ; $x = 4$ <u>yes</u> | 2. $13 - w = 10$ ; $w = 2$ _____      |
| 3. $2v = 12$ ; $v = 10$ _____       | 4. $\frac{14}{p} = 2$ ; $p = 7$ _____ |
| 5. $8 + w = 11$ ; $w = 3$ _____     | 6. $4t = 20$ ; $t = 5$ _____          |

Circle the letter of the equation that each given solution makes true.  
The first one is done for you.

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|---|---|
| 7. $x = 5$  | 8. $g = 7$  |
| <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p>(A) <math>2 + x = 7</math></p> <p>B <math>9 - x = 3</math></p> <p>C <math>3x = 18</math></p> </div> <div style="border: 1px solid black; border-radius: 50%; padding: 10px; display: inline-block; text-align: center;"> <p><math>2 + 5 = 7</math></p> </div> </div> | <p>A <math>9g = 16</math></p> <p>B <math>8 - g = 1</math></p> <p>C <math>11 + g = 17</math></p> |
| 9. $y = 2$  | 10. $m = 9$   |
| A $7 - y = 1$   | A $m - 4 = 13$  |
| B $3y = 6$  | B $7m = 36$   |
| C $\frac{10}{y} = 20$   | C $\frac{18}{m} = 2$  |
| 11. $z = 4$   | 12. $a = 8$   |
| A $5z = 20$   | A $2a = 10$   |
| B $\frac{12}{z} = 4$  | B $a + 12 = 20$   |
| C $z - 3 = 7$   | C $\frac{a}{4} = 4$   |

13. Rhonda has \$13. She has one \$5 bill, three \$1 bills, and one other bill. Is the other bill a \$1 bill or a \$5 bill? Explain.

(1)\$5 + (3) \_\_\_\_\_ + Other bill = \$ \_\_\_\_\_

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