

# 5.1 Worksheet

## HOMEWORK

Use substitution to determine which value is a solution of the equation.

1.  $p + 14 = 22$

$p = 7, p = 8, p = 9$

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2.  $53 = 27 + x$

$x = 25, x = 26, x = 27$

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3.  $8.3 = 1.2 + 3.1 + 1.7 + x$

$x = 2, x = 2.3, x = 3.3$

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4.  $36 \div 3 = c - 4.8$

$c = 14.8, c = 16.8$

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5.  $\frac{y}{2} + 26 = 14 \cdot 2$

$y = 4, y = 6$

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6.  $(m - 12) \cdot 2 = 56$

$m = 20, m = 40$

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## Problem Solving

7. A farmer has 83 animals. Twelve are cows, 20 are sheep, and  $h$  represents the number of horses. Does the farmer have 50 or 51 horses? Use the equation  $83 = 12 + 20 + h$  to identify which value makes the equation true.

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8. Kate has four times as many cousins as Andrea. Kate has 16 cousins. Let  $n$  represent the number of cousins Andrea has. Use the equation  $4n = 16$  to determine if Andrea has 1, 4, or 16 cousins.

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9. Use the numbers 1, 9, and 10 to write an equation that is a true statement. Then use the same numbers to write a statement that uses the not equal symbol ( $\neq$ ). Justify your reasoning.

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## Write About It

10. What makes a value a solution of an equation?

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