

## CHAPTER

## 1

**At-Home Practice****Solving Equations**

Determine whether the given value of the variable is a solution.

1.  $3 + h = 71$  for  $h = 68$

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2.  $g - 6 = 15$  for  $g = 10$

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3.  $\frac{r}{10} = 9$  for  $r = 90$

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4.  $16t = 84$  for  $t = 4$

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Solve each equation. Check your answers.

5.  $x + 36 = 48$

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6.  $\frac{p}{8} = 12$

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7.  $u - 17 = 32$

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8.  $36n = 36$

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9.  $44 = w + 38$

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10.  $\frac{q}{16} = 5$

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Write and solve an equation.

11. Carole spent \$45 on shoes. After her purchase, she had \$58 left. How much money did she start with?

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12. Brian has 315 stamps in his collection. One stamp book holds 35 stamps. How many books does Brian need to hold his whole collection?

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Answers: 1. yes 2. no 3. yes 4. no 5.  $x = 12$  6.  $p = 96$  7.  $u = 49$  8.  $n = 1$  9.  $w = 6$  10.  $q = 80$   
11.  $x - 45 = 58$ ; She started with \$103. 12.  $315 \div 35 = 9$ ; He needs 9 books.

# Family Fun

## SEA-MAIL

Solve each equation. Then put the letter of the variable above its value to answer the riddle.

$14d = 84$

$d = \underline{\hspace{2cm}}$

$32 = y + 21$

$y = \underline{\hspace{2cm}}$

$\frac{o}{4} = 6$

$o = \underline{\hspace{2cm}}$

$r - 3 = 15$

$r = \underline{\hspace{2cm}}$

$25c = 125$

$c = \underline{\hspace{2cm}}$

$s + 17 = 26$

$s = \underline{\hspace{2cm}}$

$\frac{n}{0.5} = 8$

$n = \underline{\hspace{2cm}}$

$b - 7 = 5$

$b = \underline{\hspace{2cm}}$

$180 = 12e$

$e = \underline{\hspace{2cm}}$

How did the Vikings send secret messages?

12 11    4 24 18 9 15    5 24 6 15