

LESSON

4

Introduction to Algebra

Practice C: Equations and Their Solutions

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

- $2d = 24$ for $d = 8$ _____
- $15 \div p = 6$ for $p = 3$ _____
- $x^2 = 25$ for $x = 5$ _____
- $135 \div x = 9$ for $x = 15$ _____
- $7 + t - 4 = 22$ for $t = 20$ _____
- $\frac{4s}{8} = 6$ for $s = 12$ _____
- $\frac{u}{13} = 5$ for $u = 65$ _____
- $2x + 3x = 60$ for $x = 12$ _____
- $2(100 - k) = 64$ for $k = 36$ _____
- $(69 \div m) - 5 = 18$ for $m = 3$ _____
- $11 \div w = 11$ for $w = 1$ _____
- $576 + n = 1,000$ for $n = 524$ _____
- $(15 \cdot 6)y = 450$ for $y = 5$ _____
- $18c \div 2 = 89$ for $c = 11$ _____
- $6^2 - r = 20$ for $r = 26$ _____
- $x^5 = 32$ for $x = 2$ _____

Replace each \square with a number that makes the equation correct.

- $28 + 11 = 22 + \square$ _____
- $19 - \square = 75 - 60$ _____
- $\square \cdot 12 = 21 \cdot 4$ _____
- $54 \div 6 = 108 \div \square$ _____
- $\square + 87 = 46 + 59$ _____
- $3^2 \cdot 3 = \square \cdot 3^3$ _____
- Mr. Yakima teaches 4 science classes, with the same number of students in each class. Of those students, 80 are sixth graders and 40 are fifth graders. Write an equation to model this situation using the variable n . What does your variable represent?
- Mary put new tiles on her kitchen floor. The floor measures 6 feet long by 5 feet wide. She used 10 tiles to cover the entire floor. Each tile was 3 feet long. Write an equation using the variable x to model this situation. What does x represent in the equation?