Lesson 2-2 Solving One-Step Equations

You will learn to

Solve equations by using addition and subtraction

Solve equations by using multiplication and division

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Solve $c - 22 = 54$.

Horizontal Method		**Vertical Method**
$c - 22 = 54$	*Original equation*	$c - 22 = 54$

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1A. $113 = g - 25$ 　▩　　**1B.** $j - 87 = -3$ 　▩

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Solve $a - 24 = 16$. Then check your solution.

Ⓐ **40**

B. **−8**

C. **8**

D. **−40**

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Solve $63 + m = 79$.

Horizontal Method		**Vertical Method**
$63 + m = 79$	*Original equation*	$63 + m = 79$

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2A. $27 + k = 30$ 　▩　　**2B.** $-12 = p + 16$ 　▩

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Solve 129 + *k* = –42. Then check your solution.

A. 87

B. –171

C. 171

D. –87

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Solve the equation:

b. $39 = -3r$

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Solve each equation.

a. $\frac{2}{3}q = \frac{1}{2}$

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3A. $\frac{3}{5}k = 6$

3B. $-\frac{1}{4} = \frac{2}{3}b$

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Solve –75 = –15*b*.

B. Solve 32 = –14*c*.

A. –3

B. 46

C. 18

D. $-2\frac{2}{7}$

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Challenge:

Solve $\left(4\frac{1}{3}\right)m = 5\frac{3}{7}$

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SURVEYS Of a group of 13- to 15-year-old girls surveyed, 225, or about $\frac{9}{20}$ said they talk on the telephone while they watch television. About how many girls were surveyed?

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STAINED GLASS Allison is making a stained glass window. Her pattern requires that one fifth of the glass should be blue. She has 288 square inches of blue glass. If she intends to use all of her blue glass, how much glass will she need for the entire project?

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TRAVEL Ricardo is driving 780 miles to Memphis. He drove about $\frac{3}{5}$ of the distance on the first day. About how many miles did Ricardo drive?

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Water flows through a hose at a rate of 5 gallons per minute. How many hours will it take to fill a 2400-gallon swimming pool?

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Do Now: p 86, #1-17 odd

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