

Solve 2-Step Equations

Scenario	Anticipate the Answer	Write and Solve Algebraic Equations
<p>George starts his day with \$5. He earns \$7 per hour at his job. At the end of the day, he has \$47. How many hours did he work?</p>		
<p>Ms. Draper has a pack of pencils. She splits the pack into 4 groups. Then she takes away 2 pencils from a group, and that group is left with 5 pencils. How many pencils were originally in the pack?</p>		

Model Equations with Algebra Tiles

Model	Algebra	Words
	<p>1) $2x - 3 = 5$</p>	<p>What's the constant term?</p> <p>How do we make it zero?</p> <p>What's the coefficient?</p> <p>How do we make it one?</p>
	<p>2) $-1 = 3x + 5$</p>	<p>What's the constant term?</p> <p>How do we make it zero?</p> <p>What's the coefficient?</p> <p>How do we make it one?</p>

	3) $\frac{x}{2} + 4 = 1$	What's the constant term? How do we make it zero? What's the coefficient? How do we make it one?
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Solve Equations with Fractions

Example	Words	You Try
4) $-\frac{4}{5}x = 16$	What fraction do we have? How can we cancel the fraction so the variable's coefficient will be one?	6) $-\frac{3}{4}y = 9$
5) $4 - \frac{2}{3}b = -2$	What's the constant term? How do we make it zero? What's the coefficient? How do we make it one?	7) $\frac{5}{6}c - 6 = 14$

Key Ideas

We use inverse operations to make our equation become _____.

FIRST: We use _____ to make the constant term equal zero.

SECOND: We _____ to make the variable's coefficient equal one.

If we have fractions, we _____.

To do that, we _____.

