

Warm-Up

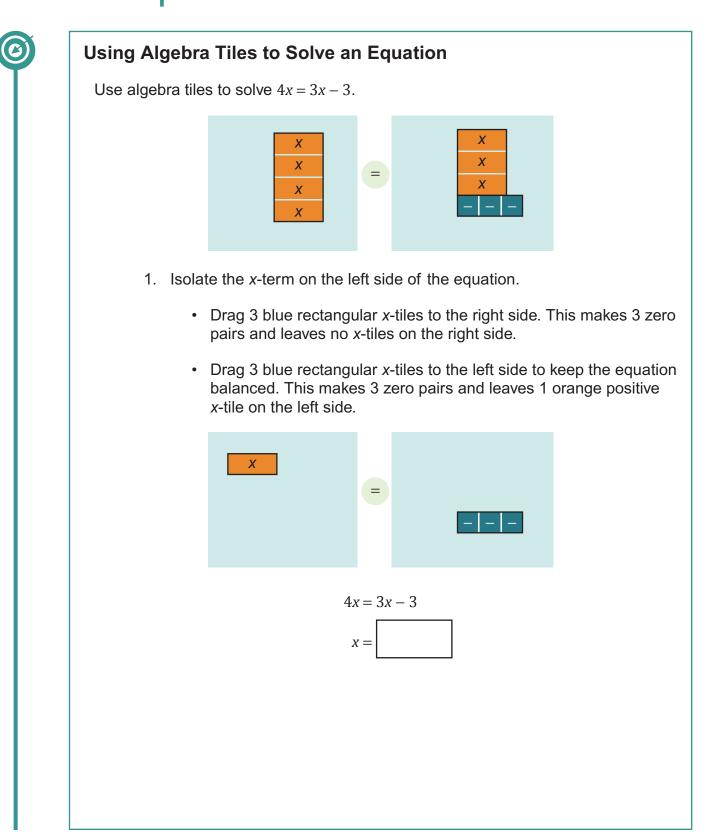
Solving with Variables on Both Sides

Lesso	n Goals Solve equations with variables on both sides.
side	ate the variable term on one and the to solve.

	properties of equality variable	A.	to separate from other substances; to place apart
		B.	a letter or symbol used to represent an unknown quantity
	coefficient	C.	the rules that allow you to balance, manipulate, and solve equations
	isolate	D.	the number value in a monomial



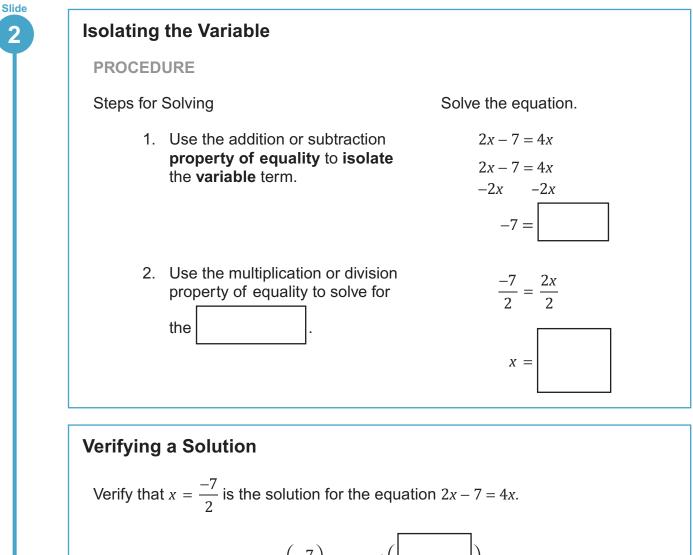
Warm-Up Solving with Variables on Both Sides





Instruction

Solving with Variables on Both Sides



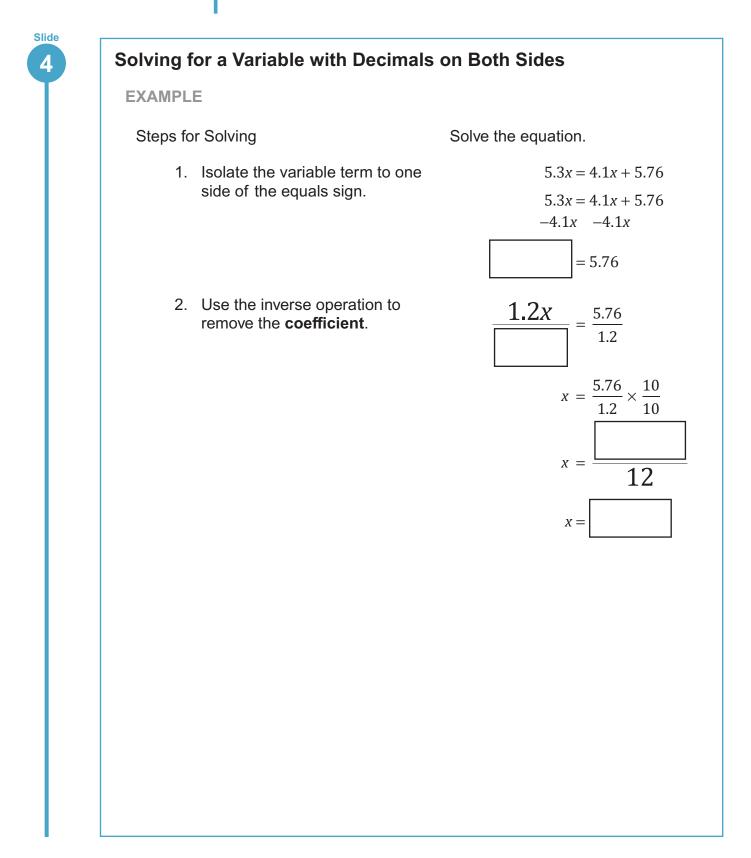
$$2\left(\frac{-7}{2}\right) - 7 = 4\left(-\frac{14}{2} - 7 = -\frac{28}{2} - 7 = -14 - \frac{14}{2} - \frac{1$$

So, our solution is correct.



Instruction

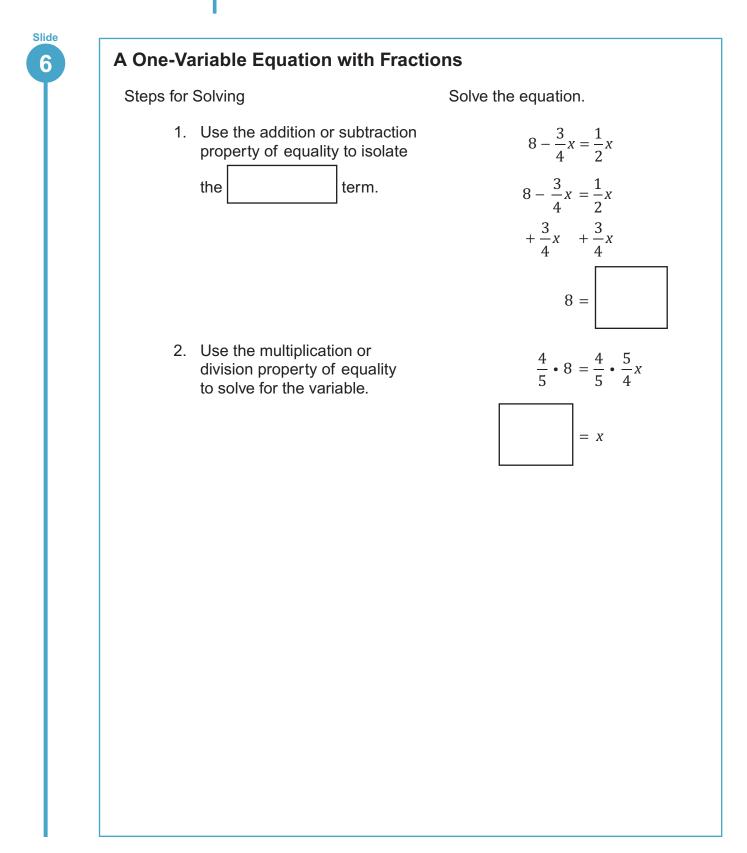
Solving with Variables on Both Sides





Instruction

Solving with Variables on Both Sides



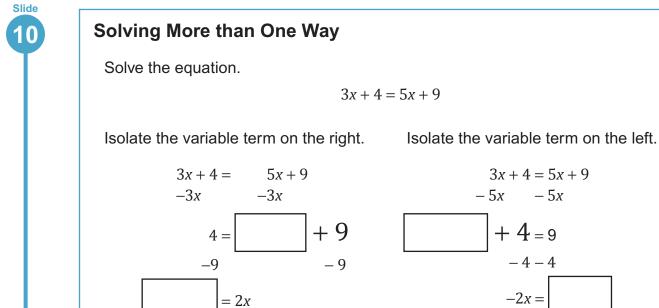


Instruction

Solving with Variables on Both Sides

 $\frac{-2x}{-2} = \frac{5}{-2}$

 $x = -\frac{5}{2}$



 $\frac{-5}{2} = \frac{2x}{2}$

x =



Instruction

Slide

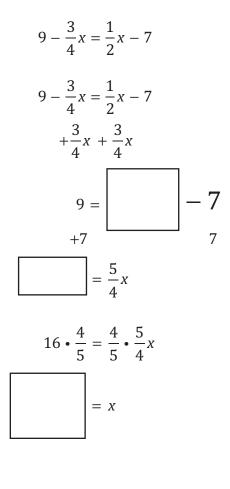
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Solving with Variables on Both Sides

Solving an Equation with Fractions

Solve the riddle.

9 minus three-fourths of a number is the same as seven less than half the number.





Instruction

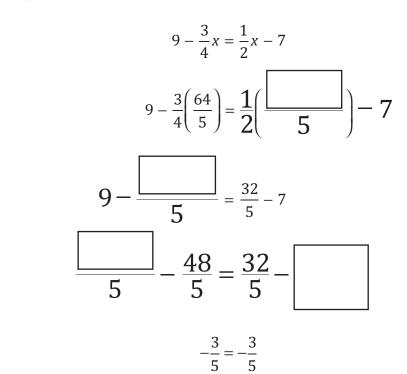
Slide

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Solving with Variables on Both Sides

Verifying a Solution

Verify that $x = \frac{64}{5}$ is the solution for the equation.



Therefore, our solution is correct.



Summary

Lesson

Solving with Variables on Both Sides

How can you solve equations with variables on both sides of the

Question equals sign? Answer 2 **Review: Key Concepts** Steps to Solve 1. Use the addition or subtraction properties of equality to isolate the variable on opposite sides of the equation. term and the 2. Use the multiplication or division property of equality to solve for the variable.





Summary

Solving with Variables on Both Sides

Use this space to write any questions or thoughts about this lesson.