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Interactive Study Guide

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LESSON Solving Two-Step Equations

To solve equations with more than one operation, or a two-step equation, follow the order of operations in reverse. First add or subtract then, multiply or divide.

Solving Two-Step Equations Using Division

Solve. Check your answer.

$$7x + 9 = 37$$

What number do you subtract from both sides?

7x =

<u>7x _ 28</u>

What number do you divide by to isolate the variable?

x =

What does x equal?

Check:

$$7x + 9 = 37$$

7(___) + 9 \frac{?}{=} 37

Substitute $__$ for x into the equation.

____ + 9 [?] 37

Multiply.

_ = 37

Does the answer check?

Solving Two-Step Equation Using Multiplication

Solve. Check your answer.

$$9 + \frac{p}{8} = 16$$

What number do you subtract from both sides?

<u>p</u> = ____

What number do you multiply by to isolate the variable?

p = ____

Check:

$$9 + \frac{p}{8} = 16$$

 $9 + \frac{56}{8} \stackrel{?}{=} 16$

Substitute ____ for *p* into the equation.

9 + ____ ? 16

Divide.

___ = 16

Does the answer check? ____