



MasterMath

Algebra  
Solving Multi-Step Equations

A slide with a black top-left corner, a grey top-right corner, a dark grey middle section with the text 'Algebra Solving Multi-Step Equations', an orange patterned right side, and a green grass bottom section with a speaker icon.

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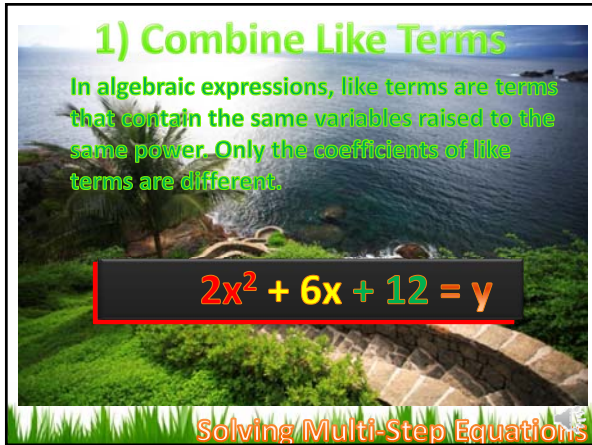
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**1) Combine Like Terms**  
In algebraic expressions, like terms are terms that contain the same variables raised to the same power. Only the coefficients of like terms are different.

$2x^2 + 6x + 12 = y$

Solving Multi-Step Equations

A slide with a background image of a tropical coastline. It features a title, a definition of like terms, an equation in a red-bordered box, and a footer.

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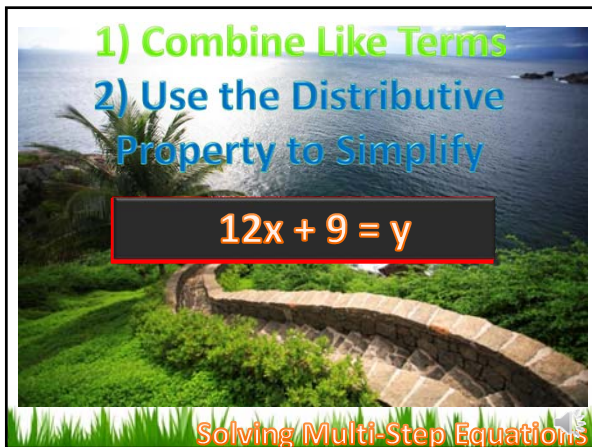
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**1) Combine Like Terms**  
**2) Use the Distributive Property to Simplify**

$12x + 9 = y$

Solving Multi-Step Equations

A slide with a background image of a tropical coastline. It features two steps, an equation in a red-bordered box, and a footer.

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1) Combine Like Terms  
 2) Use the Distributive Property to Simplify  
 3) Isolate the Variable by Using Inverse Operations

$$x = (y - 9) \div 12$$

Solving Multi-Step Equations

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Temperature in Stockholm is  $-10^{\circ}$  Celsius

$$(f - 32) * 5/9 = c$$

$$5/9 f - 5/9 (32) = c$$

$$5/9 f - 17.78 = c$$

$$5/9 f - 17.78 + 17.78 = c + 17.78$$

$$5/9 f = c + 17.78$$

$$(5/9 f) \div 5/9 = (c + 17.78) \div 5/9$$

$$f = (c + 17.78) \div 5/9$$

$$f = (-10 + 17.78) \div 5/9$$

$$f = 14^{\circ}$$


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Solving Multi-Step Equations

**YOU TRY IT**  
 Hit your Pause Key, try the problem, then hit your Forward Key to move to the answer.

$$-3x + 6x = 16 + 5$$

You try it!

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**Solving Multi-Step Equations**

**YOU TRY IT**

**Combine Like Variables Using Inverse Operation**


$$3x = 21$$

$$x = 7$$


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$$-3x + 6x = 16 + 5$$

You try it!




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**Solving Multi-Step Equations**

**YOU TRY IT**

Hit your Pause Key, try the problem, then hit your Forward Key to move to the answer.

$$4(x - 3) + 7 - 10x = 5$$

You try it!




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**Solving Multi-Step Equations**

**YOU TRY IT**

**Combine Like Variables**


$$4x - 12 + 7 - 10x = 5$$

$$-5 - 6x = 5$$


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$$4(x - 3) + 7 - 10x = 5$$

You try it!

$$-6x = 10 \quad x = -10/6 \quad x = -1\frac{2}{3}$$



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