Solving Multi-Step Equations

Sometimes solving an equation requires more than one step.

Use the techniques for solving one-step equations.

Simplify one or both sides of the equation first, if needed, by using the distributive property or combining like terms.

Example 1: Solve the equation.

$$2x-3=5
+3 +3$$

$$2x = 8
2x = 8
x = 4$$

$$4y+1 = 5y-9
-5y$$

$$y+1 = -9
-1$$

$$\frac{4m+2+4m=26}{8m+2=26}$$

$$\frac{3}{8}x-6=18$$

$$+6=18$$

$$+6=18$$

$$+6=18$$

$$-2=26$$

$$-2=2$$

$$\frac{8m}{8}=\frac{24}{8}$$

$$x=64$$

$$m=3$$

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