Name: _____   **Date:** _____

Today's Lesson: I will learn how to solve two-step equations by rearranging formulas.

Warm-up 10 mins: Solve the following equations

Solve each equation for *x*. For part c, remember a variable symbol, like *a*, *b*, and *c*, represents a number.

a. $2x - 6 = 10$	**Justify:**
b. $-3x - 3 = -12$	**Justify:**
c. $ax - b = c$	**Justify:**
d. $ax - b = c$ Solve for *a*	**Justify:**

Timer: 5 mins: Solve each problem in two ways. ***First***, substitute the given values and solve for the given variable. ***Then***, solve for the given variable and substitute the given values.

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1. The area formula for a triangle is $A = \frac{1}{2}bh$, where **A** represents the area, **b** represents the length of the base and **h** represents the height. Calculate **b** when **A = 100** and **h = 20**.

Show your work!

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2. The perimeter formula for a rectangle is $p = 2(l + w)$ where **p** represents the perimeter, **l** represents the length, and **w** represents the width. Calculate **l** when **p = 70** and **w = 15**.

Show your work!

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3. Solve for x, when variables are on both sides of the equation.
$3x + 4 = 6 - 5x$