Lesson 13: Making New, True Equations

- Let's practice solving equations.

13.1: Math Talk: Evaluating Expressions

Find the value of y when $x = 5$.

$y = 3x - 4$

$y = \frac{2}{5}x + 4$

$y = 2x + 3 + (3x - 1)$

$y = 4x - (x + 1)$

13.2: Solving for a Variable

Solve for the indicated variable.

1. Solve for k. $2t + k = 6$

2. Solve for n. $10n = 2p$

3. Solve for c. $12 - 6d = 3c$

4. Solve for g. $h = 8g + 4$

5. Solve for x. $4x + 3y = 12$

6. Solve for y. $4x + 3y = 12$

13.3: Solving Some Equations

Solve each equation.

row	column A	column B
1	$4(2x + 8) - 10 = 14$	$4 + 2(\text{-}3x + 5) = 20$
2	$3(x - 4) + 6 = 60$	$3(\frac{1}{2}x + 9) - 5 = 55$
3	$4(\frac{x+3}{2}) - 5 = 10$	$7 - 2(6x + 1) = \text{-}49$
4	$2x + (5 - 3x) = 14$	$1 = 5x + 10 - 4x$
5	$4x + 2(3 - x) = 16$	$x + 2(x - 4) + 5 = 12$
6	$2x - 2(3x - 1) = 8$	$\text{-}6x + 2(4x + 5) = 7$