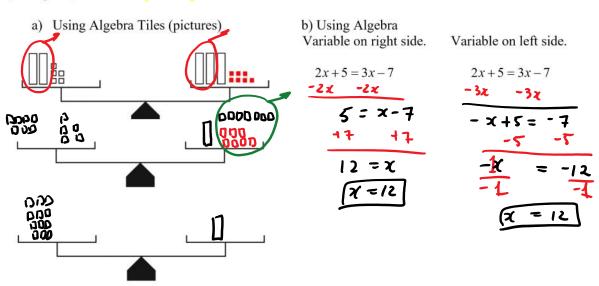
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Learning Outcome 6A: I can solve algebra equations with variables on both sides.

If the equation contains variables on both sides of the equation, simply move one term with the variable to the other side. Think "zero pairs".

Example 1: Solve: 2x + 5 = 3x - 7.



ExerciseS: Solve each of the following equations using whatever way you wish.

1.
$$5x+12=3x+2$$
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In some equations you will have to combine like terms on each side, before solving.

Level 3: Algebra with Variables on BOTH Sides of the Equation (6.1-6.2)

Page 2 of 2

Example 2: Solve 4k+8+2k-3=8+4k+9 by collecting like terms first.

Example 3: Solve the following equations. Note: If an equation has brackets, **e** × **p4** × **f** first.

$$2(4x-3) = 3(2x+4)$$

$$2(4x)+2(-3) = 3(2x)+3(4)$$

$$8x-6 = 6x + 12$$

$$-1x$$

$$-6 = -2x + 12$$

$$-1^{2} = -2^{2}$$

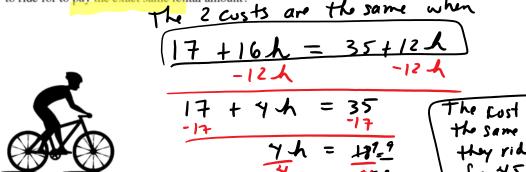
$$-1^{2} = -2^{2}$$

$$2 = 9$$

Ex. 11: Ben and Hines want to rent scooters while on a vacation. They come across two rental shops with the following rates:

Scooter-World \$17 for the first hour, \$16 for each additional hour \$35 for the first hour, \$12 for each additional hour

Ben decides to rent from Scooter-World and Hines rents from Vespa-Ville. How long would they have to ride for to pay the exact same rental amount?



Assignment: "What is the Title of This Picture?" & "How Might a Pair of Snakes Be Used for 7x -12 = 5x - 22 Driving in the Rain?" Worksheets