Warm Up!

1.) Write agenda book

2.) Place homework on desk

3.) Jennifer reads p pages everyday. After 15 days, she has read 300 pages. Write an equation to represent this situation. *(Remember: the variable can not be by itself)*

$$15p = 300$$
$$300/p = 15$$

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Lesson 11.2: Addition and Subtraction Equations

<u>Learning Target:</u> I can solve addition and subtraction equations.

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Golden Rule of Algebra: "What you do on one side of the equation, you must do on the other."

Inverse Operations- ___undo___ each other.

To solve an addition equation, use ___subtraction___.

To solve a subtraction equation, use ___addition___.

*An equation is like a balance scale. The quantity on the left side of the equals sign is **balanced** with the quantity on the right. When you solve an equation, you need to keep the equation **balanced**.

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THE GOLDEN RULE OF ALGEBRA

WHAT YOU DO ON ONE SIDE OF THE EQUATION...   ... YOU MUST DO ON THE OTHER SIDE.

Feb 4-8:18 AM

Algebra Lab: Solving Addition Equations using Models

Supplies: Scale paper, "x tile", and colored tiles

An equation is like a balance scale. The quantity on the left side of the equals sign is **balanced** with the quantity on the right. When you solve an equation, you need to keep the equation **balanced**.

To solve an equation using x tiles and colored tiles, remember to add or subtract the same number of tiles from each side of the scale, so that it remains balanced.

Remember the Golden Rule of Algebra:

"What you do on one side of the equation, you must do on the other."

1.) $x + 4 = 7$

2.) $x + 2 = 6$

3.) $x + 1 = 5$

4.) $x + 2 = 8$

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$$x + 1 = 3$$

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Examples: Solve the addition equations below.

1.) $y + 8 = 22$
$-8 \quad -8$
$y = 14$

2.) $26 = a + 15$
$-15 \quad -15$
$11 = a$

Examples: Solve the subtraction equations below.

3.) $y - 21 = 18$
$y = 39$

4.) $x - 6.75 = 12$
$x = 18.75$

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More Practice

1.) $5 = w + 1.5$ 2.) $n + 6.5 = 20$

3.) $g - 8.97 = 12.4$ 4.) $104.5 = k - 2$

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Example: Joshua wants to buy his mother flowers and a card for Mother's Day. Joshua has $25 to spend and selects roses for $21.79. How much can he spend on a card?

$$X + 21.79 = 25$$

$$X = 3.21$$

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You try:

Elise spent $88.79 at the store. She then had $44.50 left to buy another outfit. How much money did she originally have? Write and solve an equation to answer the question.

$$X - 88.79 = 44.50$$

$$X = \$133.29$$

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H.O.T. **FOCUS ON HIGHER ORDER THINKING**

Multistep A grocery store is having a sale this week. If you buy a 5-pound bag of apples for the regular price, you can get another bag for $1.49. If you buy a 5-pound bag of oranges at the regular price, you can get another bag for $2.49.

Grocery Prices	
	Regular price
5-pound bag of apples	$2.99
5-pound bag of oranges	$3.99

a. Write an equation to find the discount for each situation using *a* for the amount of the discount for apples and *r* for the amount of the discount for oranges.

$$1.49 + a = 2.99 \qquad 2.49 + r = 3.99$$

b. Which fruit has a greater discount? Explain.

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To do:

1. Homework

2. ALEKS

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