# **Good Morning!**

Today you will need:

- corrected homework
- graph spiral
- pencil
- calculator

## **Warm-Up**

In your graph spiral, answer the following questions:

Expand the following expressions using the Distributive Property.

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

# Solving Equations with the Distributive Property

#### Steps:

- 1.) Use the Distributive Property to eliminate parentheses.
- 2.) Eliminate the constant using addition/subtraction.
- 3.) Eliminate the coefficient using multiplication/division.
- 4.) Check your answer.

Remember:

The Golden Rule of Algebra

Do unto one side as you do to the other

To solve, you must get the variable alone on one side.  ** You must always show all your steps to receive full credit.	
Solve	Check Your Work by putting your answer back into the equation
3(x + 5) = 18	
129 = 3(3 - 5y)	
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#### Practice Problems...

Solve the following equations, show your steps, and check your answer.

1. 
$$3(x + 1) = 12$$

2. 
$$84 = 4(4x - 7)$$

## Homework:

Write and Solve Distributive Property Equations worksheet, #1-6 ONLY

### **Homework:**

finish Practice Problems #1-4 on Distributive Property notes page

#### Practice Problems...

Solve the following equations, show your steps, and check your answer.

1. 
$$3(x + 1) = 12$$

2. 
$$4(x - 5) = 20$$

3. 
$$84 = 4(4x - 7)$$

4. 
$$-160 = -8(3x + 8)$$

#### Practice Problems...

Solve the following equations, show your steps, and check your answer.

1. 
$$3(x + 1) = 12$$

2. 
$$4(x - 5) = 20$$

$$x = 3$$

$$X = 10$$

3. 
$$84 = 4(4x - 7)$$

4. 
$$-160 = -8(3x + 8)$$

$$X = 7$$

$$X = 4$$

#### Practice Problems...

Solve the following equations, show your steps, and check your answer.

1. 
$$3(x + 1) = 12$$
  $3(3+1) = 12$   
 $3x + 3 = 12$   $3(4) = 12$   
 $3x = 9$   $12 \neq 12$ 

$$3(4) = 12$$
 $12 \stackrel{\checkmark}{=} 12$ 

$$3(4) = 12$$
 $12 = 12$ 

3. 
$$84 = 4(4x - 7) 84 = 4(4.7.7)$$

$$84 = 4(4x - 7) \quad 84 = 4(4.7 - 7)$$

$$84 = 16x - 28 \quad 84 = 4(28 - 7)$$

$$+28 \quad +28 \quad 84 = 4(21)$$

$$84 = 4(21)$$

$$84 = 4(21)$$

$$\frac{112 - 16x - 28}{112 - 16x}$$
 $\frac{112 - 16x}{116}$ 
 $\frac{112 - 16x}{116}$ 
 $\frac{112 - 16x}{116}$ 

$$84 = 84$$

$$-160 = -8(3.4 + 8)$$

$$-160 = -8(12 + 8)$$

$$-160 = -8(20)$$

$$-(60 = -160)$$

2. 
$$4(x-5) = 20$$
  $4(b-5) = 20$   
 $4(x-20) = 20$   $4(5) = 20$   
 $4(5) = 20$ 

$$+20 + 20$$
 $+20 + 20$ 
 $+20 + 20$ 
 $+40$ 
 $+4 + 4$ 
 $= 10$ 

4. 
$$-160 = -8(3x + 8)$$

$$-160 = -24x + -64 + 64 + 64$$
$$-96 = -24x$$

$$-96 = -24 \times \div -24 \div -24$$

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