## Distributive Property Hands-On Lab



## Remember:

You must multiply the term outside of the parentheses by all the terms within the parentheses.

To simplify an expression using the distributive property, you must multiply the term on the outside of the parentheses by all of the terms inside the parentheses.


## Activity 1

Model and simplify the expression $3(x+4)$.

Model


Put like terms together.

## So

$$
3(x+4)
$$

is equivalent to

$$
3 x+12
$$

## Activity 2

Model and solve the equation $2(x-3)=4$.


Put like terms together.


Add 6 to both sides.


## Inverse Operations

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

$$
2 x-6=4
$$

$$
+6 \quad+6
$$

$$
\frac{2 x}{2}=\frac{10}{2}
$$

$$
x=5
$$

Model and simplify the expressions. ( 2 pts each)

1. $2(x-2)$

Model

So
is equivalent to $\qquad$
3. $3(2 x-1)$

Model

So
is equivalent to $\qquad$
■ $\uparrow$ $\qquad$ So is equivalent to $\qquad$

Model and solve the equations. (4 pts each)
Model
5. $4(2+x)=16$

## Inverse Operations

6. $3=3(-x+5)$

Model

