

Name: _____

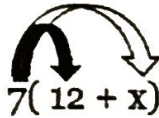
DISTRIBUTIVE PROPERTY NOTES

Notes:

- Distribute means to _____.
- When you use the distributive property, you are GIVING the numbers/variables on the _____ of the parenthesis to both/all of the numbers/variables on the _____ of the parenthesis.

Examples:

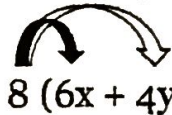
1. $7(12 + x)$ Step 1: Draw arrows from the 7 to the 12 and x. Each arrow represents multiplication.


$$7(12 + x)$$

Step 2: Multiply

$(7 \cdot 12) + (7 \cdot x)$ Step 3: Simplify if possible.

-
2. $8(6x + 4y)$ Step 1: Draw arrows from the 8 to the $6x$ and $4y$. Each arrow represents multiplication.


$$8(6x + 4y)$$

Step 2: Multiply

$(8 \cdot 6x) + (8 \cdot 4y)$ Step 3: Simplify if possible.

You Try:

1. $13(5x + 7y + 8)$

2. $9(10a + 12c) + 11(6a + 5c + 11)$

Distribute:

1) $3(x + 2) =$

2) $2(2m + 5) =$

3) $6(a + 1) =$

4) $7(2g + 8) =$

5) $3(3w + 3) =$

6) $6(2b + 4) =$

7) $4(3n + 2) =$

8) $5(k + 3) =$

9) $4(w + 8) =$

10) $5(2b + 3) =$

11) $8(n + 3) =$

12) $10(2k + 5) =$

Name _____

Date _____

Combining Like Terms with Bags and Blocks

Write a simplified expression to represent each bag/block model.

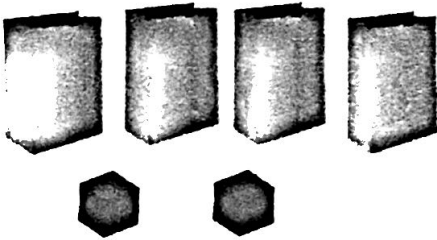
- 1) How many bags and blocks would you have if you doubled the model?

Expression: _____ = _____



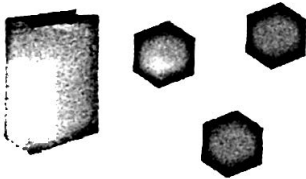
- 2) How many bags and blocks would you have if you doubled the model?

Expression: _____ = _____



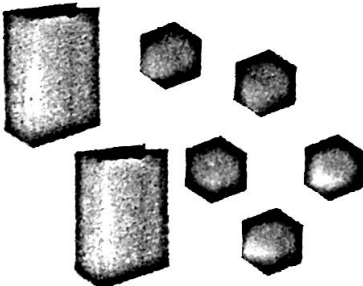
- 3) How many bags and blocks would you have if you tripled the model?

Expression: _____ = _____



- 4) How many bags and blocks would you have if you tripled the model?

Expression: _____ = _____



Draw a bag/block model to represent each expression and write the equivalent expression.

1) $2(x + 1) =$

2) $2(m + 4) =$

3) $2(2a + 3) =$

4) $2(3g + 2) =$

5) $3(w + 2) =$

6) $3(2b + 5) =$

7) $3(3n + 1) =$

8) $4(k + 2) =$