Name _____ Class _____ Date _____

Reteaching 1-7

The Distributive Property

OBJECTIVE: Using the Distributive Property **MATERIALS:** None

You can compare the Distributive Property to distributing paper to the class. Just as you distribute a piece of paper to each person in the class, you distribute the number immediately outside the parentheses to each term inside the parentheses by multiplying.

Example

Simplify $3(2x + 3)$ by using the Distributive Property.

$3(2x + 3)$ ← **Draw arrows to show that 3 is distributed to the $2x$ and to the 3.**

$3(2x) + 3(3)$ ← **Use the Distributive Property.**

$6x + 9$ ← **Simplify.**

Example

Simplify $-(4x + 7)$ by using the Distributive Property.

$-1(4x + 7)$ ← **Rewrite using the Multiplication Property of -1.**

$-1(4x + 7)$ ← **Draw arrows to show that -1 is distributed to the $4x$ and to the 7.**

$-1(4x) + (-1)(7)$ ← **Use the Distributive Property.**

$-4x - 7$ ← **Simplify.**

Exercises

Draw arrows to show the Distributive Property. Then simplify each expression.

1. $2(5x + 4)$ **2.** $\frac{1}{4}(12x - 8)$ **3.** $4(7x - 3)$

4. $5(4 + 2x)$ **5.** $6(5 - 3x)$ **6.** $0.1(30x - 50)$

7. $(2x - 4)3$ **8.** $(3x + 4)7$ **9.** $8(x + y)$

10. $-(4x + 3)$ **11.** $-(-2x + 1)$ **12.** $-(-6x - 3)$

13. $-(14x - 3)$ **14.** $-(-7x - 1)$ **15.** $-(3x + 4)$

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