

Name: Key

Date:

Topic:

Class:

Main Ideas/Questions

Notes/Examples

DISTRIBUTIVE PROPERTY

Recall: The distributive property states that

$$a(b+c) = ab+ac \quad \text{or} \quad a(b-c) = ab-ac$$

GUIDED EXAMPLES

1 $4(x+9)$

$$4x+36$$

2 $7(k-3)$

$$7k-21$$

3 $-3(n-8)$

$$-3n-(-24)$$

$$-3n+24$$

4 $-2(5x-2)$

$$-10x-(-4)$$

$$-10x+4$$

YOU TRY!

Directions: Simplify each expression by distributing.

1. $7(x+5)$

$$7x+35$$

2. $5(w-4)$

$$5w-20$$

3. $-5(m-5)$

$$-5m+25$$

4. $9(2-a)$

$$18-9a$$

5. $2(y+3)$

$$2y+6$$

6. $-2(x+7)$

$$-2x+(-14)$$

7. $-7(3-5m)$

$$-21+35m$$

8. $3(2n+8)$

$$6n+24$$

9. $-12(c+4)$

$$-12c+(-48)$$

10. $-2(4k+5)$

$$-8k+(-10)$$

11. $-(k-2)$

$$-k+2$$

12. $4(1-7p)$

$$4-28p$$

13. $9(2r-7)$

$$18r-63$$

14. $-(5k+4)$

$$-5k+(-4)$$

15. $\frac{4}{39} \left(\frac{3}{8}w+10 \right)$

$$\frac{1}{6}w + \frac{40}{9}$$