

Name \_\_\_\_\_ Period \_\_\_\_\_

## Chapter 3 Review

### Section 1: Evaluating Algebraic Expressions

1) Evaluate the following expression if  $x = 5$  and  $y = 4$  :

$$3x - 2y + y^2$$

2) Evaluate the following expression if  $a = -3$ ,  $b = 9$ , and  $c = 15$  :

$$\frac{(b+c)-a}{c-4a}$$

3) Evaluate the following expression if  $p = 6$  and  $q = -3$  :

$$p^2 + 20q - 13$$

### Section 2: Simplifying Expressions

Simplify each of the following expressions:

4)  $7f + 9f - 8$

5)  $-8 - 7f - 2 + f$

6)  $16n + (-4) - 16n + 42 - 3$

### Section 3: Distributive Property

Simplify each of the following expressions using the Distributive Property:

7)  $9(-x + 11)$

8)  $-3(-5y - 2x)$

9)  $\frac{2}{3}(10x + 18)$

### Section 4: Factoring

Factor each of the following expressions completely:

10)  $33g + 44$

11)  $-15abc + 35ac$

12)  $14w - wy + 21wx$

## Section 5: Adding and Subtracting Linear Expressions

Simplify the following expressions:

13)  $5(2x - 3) + 4(-3x + 5)$

14)  $(x - 11) - (6x - 2)$

15)  $\frac{3}{4}(20x + 12) - 2(x - 5)$

## Section 6: Combining Concepts

Simplify the following expression:

$$4(-5x + 25) - 6x - 9$$

Simplify the following expression and then evaluate the expression given that  $x = -4$  :

$$2(x - 1) + 5x - x + 7 + 3x$$

SECTION 1: \_\_\_\_\_/3

SECTION 2: \_\_\_\_\_/3

SECTION 3: \_\_\_\_\_/3

SECTION 4: \_\_\_\_\_/3

SECTION 5: \_\_\_\_\_/3

SECTION 6: \_\_\_\_\_/2

TOTAL: \_\_\_\_\_/17