

Name: \_\_\_\_\_ Class: \_\_\_\_\_ Date: \_\_\_\_\_

### 8th Grade Pre-Algebra Section 7.5 Part 2 Worksheet

Factor each expression using the distributive property. YOU MUST SHOW WORK.

1.  $11x + 44x^2y$  GCF:  $11x$

$$11x(1 + 4xy)$$

2.  $14xz - 18xz^2$  GCF:  $2xz$

$$2xz(7 - 9z)$$

3.  $18xy^2 - 24x^2y$  GCF:  $6xy$

$$6xy(3y - 4x)$$

4.  $25a^2b^2 + 30ab^3$  GCF:  $5ab^2$

$$5ab^2(5a + 6b)$$

5.  $17a - 41a^3b$  GCF:  $a$

$$a(17 - 41a^2b)$$

6.  $14mn^2 + 2mn$  GCF:  $2mn$

$$2mn(7n + 1)$$

*Factoring Using the Distributive Property*

7.  $16y^2 + 8y$     GCF:  $8y$

$$8y(2y + 1)$$

8.  $3x^3y + 9xy^2 + 36xy$     GCF:  $3xy$

$$3xy(x^2 + 3y + 12)$$

9.  $12ax + 20bx - 32cx$     GCF =  $4x$

$$4x(3a + 5b - 8c)$$