

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Lesson 7.3 Simplifying Algebraic Expressions

**Simplify each expression. Then state the coefficient of the variable in each expression.**

1.  $x + x + 3 + 4$

= \_\_\_\_\_

2.  $k - k + k - 3$

= \_\_\_\_\_

**Simplify each expression.**

3.  $6g - 3g + 8g - g$

= \_\_\_\_\_

4.  $10u + 4u - 8u - 3u$

= \_\_\_\_\_

5.  $9m + 4m - 5m + 3m$

= \_\_\_\_\_

6.  $12x - 4x + 3x + 5x$

= \_\_\_\_\_

**State whether each pair of expressions are equivalent.**

7.  $8z + 2z$  and  $3z + 4z + 3z$

\_\_\_\_\_

8.  $9y$  and  $9 + y$

\_\_\_\_\_

9.  $7n - 2$  and  $2 - 7n$

\_\_\_\_\_

10.  $5g - 2g$  and  $\frac{18g}{6}$

\_\_\_\_\_

**Simplify each expression.**

11.  $12 - 8 + 5d + 4d - 6d$

= \_\_\_\_\_

12.  $20 + 7k - 12 - 5k + 8k$

= \_\_\_\_\_

13.  $9m + 11 - 8m - 6 + 5m$

= \_\_\_\_\_

14.  $18 + 4n - 9 + 8n - 11n$

= \_\_\_\_\_