

## Assignment

Date \_\_\_\_\_ Period \_\_\_\_\_

**Simplify each expression.**

1)  $6(1 + 7a) + 8(1 - a)$

2)  $5(9n + 8) + 3(5n + 4)$

3)  $3(3b + 6) + 5(4 + 4b)$

4)  $7(3n + 5) + 4(8n + 8)$

5)  $4(x + 2) + 7x$

6)  $8(1 + n) + 10(9n + 2)$

7)  $k + 6(10k + 6)$

8)  $8(r + 5) + 4r$

9)  $7v + 4(7v + 4)$

10)  $5v + 4(5 + 10v)$

11)  $2 + 8(x + 6)$

12)  $9m + 5(m + 3)$

13)  $6 + 4(1 - 10x)$

# Practice

Write an equivalent expression for each expression.

1.  $x + x$

\_\_\_\_\_

2.  $c + c + c + c$

\_\_\_\_\_

3.  $p \times p$

\_\_\_\_\_



4.  $y \times y \times y \times y$

\_\_\_\_\_

5.  $n + n + n + n + n$

\_\_\_\_\_

6.  $a \times a \times a \times a \times a$

\_\_\_\_\_

Use the distributive property to write an equivalent expression for each expression.

7.  $4(x + 3)$

\_\_\_\_\_

8.  $6(4 + 2a)$

\_\_\_\_\_

9.  $3(3c - d)$

\_\_\_\_\_

10.  $7(5x + 12)$

\_\_\_\_\_

11.  $5(2m - 4n)$

\_\_\_\_\_

12.  $8\left(6y + \frac{5}{8}\right)$

\_\_\_\_\_

~~Use the GCF to write an equivalent expression for each expression.~~

~~13.  $2y + 4$~~

~~\_\_\_\_\_~~

~~14.  $27 + 3x$~~

~~\_\_\_\_\_~~

~~15.  $10c - 15$~~

~~\_\_\_\_\_~~

~~16.  $32r + 4s$~~

~~\_\_\_\_\_~~

~~17.  $12c + 42d$~~

~~\_\_\_\_\_~~

~~18.  $24x - 40y$~~

~~\_\_\_\_\_~~