

Name \_\_\_\_\_

## Simplifying Variable Expressions Worksheet 1

Use the distributive property to simplify the expression:

1.  $8(r + 4) =$  \_\_\_\_\_

2.  $-2(5k + 12) =$  \_\_\_\_\_

3.  $-11(4p - 8) =$  \_\_\_\_\_

4.  $7(3w - 5) =$  \_\_\_\_\_

5.  $14(x + 3) =$  \_\_\_\_\_

Simplify the expression:

6.  $w + 9w - 8 =$  \_\_\_\_\_

7.  $8g + 18 + 13g =$  \_\_\_\_\_

8.  $-12a - 15 + 4a + 8 =$  \_\_\_\_\_

9.  $48y + 52 - 14y - 24 =$  \_\_\_\_\_

10.  $-6m - 13 + 10m =$  \_\_\_\_\_

11.  $75d + 25 - 18 - 5d =$  \_\_\_\_\_

12.  $5(2n + 3) - 9 =$  \_\_\_\_\_

## Simplifying Variable Expressions Worksheet 1 Answers

Use the distributive property to simplify the expression:

1.  $8(r + 4) = 8r + 32$

2.  $-2(5k + 12) = -10k - 24$

3.  $-11(4p - 8) = -44p + 88$

4.  $7(3w - 5) = 21w - 35$

5.  $14(x + 3) = 14x + 42$

Simplify the expression:

6.  $w + 9w - 8 = 10w - 8$

7.  $8g + 18 + 13g = 21g + 18$

8.  $-12a - 15 + 4a + 8 = -8a - 7$

9.  $48y + 52 - 14y - 24 = 34y + 28$

10.  $-6m - 13 + 10m = 4m - 13$

11.  $75d + 25 - 18 - 5d = 70d + 7$

12.  $5(2n + 3) - 9 = 10n + 6$