

## Simplify Expressions Worksheet

Simplify the expressions.

|                                      |                                     |
|--------------------------------------|-------------------------------------|
| 1 a. $-4y + (-5)y$                   | 1 b. $-5 - 7(9y - 1)$               |
| 2 a. $-10(-7w - 2 - 6w^2) - 6w$      | 2 b. $\frac{6s^{10}}{-6s^{11}}$     |
| 3 a. $\sqrt[3]{v} \cdot \sqrt[5]{v}$ | 3 b. $10(k + 4) - 10$               |
| 4 a. $3c + 9c + 9 + 5c$              | 4 b. $-7(x + 6) + 9(x - 3)$         |
| 5 a. $10 - 10b - 3b - 2 - 8b$        | 5 b. $(7w + 5 + 10w^2) - 8w$        |
| 6 a. $8 + (-2n + 8)$                 | 6 b. $-c + 4k - 8c - 7 - 8c$        |
| 7 a. $-10(4w + 9) + 2(10 - 10w)$     | 7 b. $8 - 10(p^2 + 7p + 3) + 10p^2$ |

## Using the Distributive Property

Simplify each expression.

1)  $-6(a + 8)$

2)  $4(1 + 9x)$

3)  $6(-5n + 7)$

4)  $(9m + 10) \cdot 2$

5)  $(-4 - 3n) \cdot -8$

6)  $8(-b - 4)$

7)  $(1 - 7n) \cdot 5$

8)  $-6(x + 4)$

9)  $5(3m - 6)$

10)  $(-6p + 7) \cdot -4$

11)  $5(b - 1)$

12)  $(x + 9) \cdot 5$