

SIMPLIFY DISTRIBUTIVE PROPERTY WORKSHEET

Use the distributive property to expand and simplify the following expressions.

1) $4(x + 6)$

4) $6(b - 4) + 2b$

2) $5(2y - 3)$

5) $2(3m + 1) - m$

3) $-3(a + 7)$

6) $-2(x - 5) + 3(x + 2)$

SIMPLIFY DISTRIBUTIVE PROPERTY WORKSHEET ANSWER KEY

Use the distributive property to expand and simplify the following expressions.

1) $4(x + 6)$

$$= 4 * x + 4 * 6$$

$$= 4x + 24$$

4) $6(b - 4) + 2b$

$$= 6 * b + 6 * (-4) + 2b$$

$$= 6b - 24 + 2b$$

$$= 8b - 24$$

2) $5(2y - 3)$

$$= 5 * 2y + 5 * (-3)$$

$$= 10y - 15$$

5) $2(3m + 1) - m$

$$= 2 * 3m + 2 * 1 - m$$

$$= 6m + 2 - m$$

$$= 5m + 2$$

3) $-3(a + 7)$

$$= -3 * a + (-3) * 7$$

$$= -3a - 21$$

6) $-2(x - 5) + 3(x + 2)$

$$= -2 * x + (-2) * (-5) + 3 * x + 3 * 2$$

$$= -2x + 10 + 3x + 6$$

$$= x + 16$$