

Name: Key

## Distributive Law and Like Terms – Worksheet #2

1. Simplify each expression.

$$\begin{aligned} \text{a) } 8n - n \\ = 7n \end{aligned}$$

$$\begin{aligned} \text{b) } -v - v \\ = -2v \end{aligned}$$

$$\begin{aligned} \text{c) } 1 + 3k - 8 + k \\ = 4k - 7 \end{aligned}$$

$$\begin{aligned} \text{d) } -5x - 4 + x + 7 \\ = -4x + 3 \end{aligned}$$

$$\begin{aligned} \text{e) } -4(1 - 8n) \\ = -4 + 32n \end{aligned}$$

$$\begin{aligned} \text{f) } 6(6 + 5m) \\ = 36 + 30m \end{aligned}$$

$$\begin{aligned} \text{g) } -7(8v - 5) + 6v \\ = -56v + 35 + 6v \\ = -50v + 35 \end{aligned}$$

$$\begin{aligned} \text{h) } -3 + 6(x + 4) \\ = -3 + 6x + 24 \\ = 21 + 6x \end{aligned}$$

$$\begin{aligned} \text{i) } -3a + 7(a + 8) \\ = -3a + 7a + 56 \\ = 4a + 56 \end{aligned}$$

$$\begin{aligned} \text{j) } 4 + 8(x - 7) \\ = 4 + 8x - 56 \\ = 8x - 52 \end{aligned}$$

$$\begin{aligned} \text{k) } & 5(r-2) + 7(-4r+1) \\ & = 5r - 10 - 28r + 7 \\ & = -23r - 3 \end{aligned}$$

$$\begin{aligned} \text{l) } & -4(1+5x) - 6(2x+1) \\ & = -4 - 20x - 12x - 6 \\ & = -32x - 10 \end{aligned}$$

$$\begin{aligned} \text{m) } & 1 + 2(x+6) - (8x-1) \\ & = 1 + 2x + 12 - 8x + 1 \\ & = -6x + 14 \end{aligned}$$

$$\begin{aligned} \text{n) } & 8a(a-7) - 4(4a+3) \\ & = 8a^2 - 56a - 16a - 12 \\ & = 8a^2 - 72a - 12 \end{aligned}$$