

Name: \_\_\_\_\_

Date: \_\_\_\_\_

# **Distributive Property**

## **Worksheet**

**Use the distributive property to simplify each expression**

$$1) 3(x + 2)$$

$$2) 4(y - 1)$$

$$3) 5(2x + 1)$$

$$4) 7(1 - b)$$

$$5) 3(c + 4) - 2(c - 1)$$

$$6) 5(2f - 4)$$

$$7) 5(x + 5)$$

$$8) 2(5 - d) + 3(2d + 1)$$

$$9) 10x(x + 2)$$

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# **Distributive Property**

## **Worksheet Answer Key**

**Use the distributive property to simplify each expression**

$$1) 3(x + 2)$$

$$\begin{aligned} &= 3 * x + 3 * 2 \\ &= 3x + 6 \end{aligned}$$

$$2) 4(y - 1)$$

$$\begin{aligned} &= 4 * y + 4 * (-1) \\ &= 4y - 4 \end{aligned}$$

$$3) 5(2x + 1)$$

$$\begin{aligned} &= 5 * 2x + 5 * 1 \\ &= 10x + 5 \end{aligned}$$

$$4) 7(1 - b)$$

$$\begin{aligned} &= 7 * 1 - 7 * b \\ &= 7 - 7b \end{aligned}$$

$$5) 3(c + 4) -$$

$$\begin{aligned} &2(c - 1) \\ &= 3*c + 3*4 - 2*c + \\ &2*1 \\ &= 3c + 12 - 2c + 2 \\ &= c + 14 \end{aligned}$$

$$6) 5(2f - 4)$$

$$\begin{aligned} &= 5 * 2f - 5 * 4 \\ &= 10f - 20 \end{aligned}$$

$$7) 5(x + 5)$$

$$\begin{aligned} &= 5 * x + 5 * 5 \\ &= 5x + 25 \end{aligned}$$

$$8) 2(5 - d)$$

$$= 10 - 2d$$

$$9) 10x(x + 2)$$

$$= 10x^2 + 20$$