

# Simplifying Linear Expressions (G)

Simplify each expression by combining like terms.

1.  $-7 + 2w + 6w + 8w - 7w$

2.  $x - 5 + x - 8x + 7$

3.  $-2 - 6j - 7j + 3 - 7j$

4.  $z + 5 + 9z - 6z + 4z$

5.  $-2f - 7f + 4 + 3 - 4$

6.  $3y - 7 + 5 - 4y + 9y$

7.  $-j - 3j - j - 8 + 4j$

8.  $1 - 8y + y - 4 - 4$

9.  $-8c - c - 4 + 2 - 1$

10.  $3 - 1 + 6c - 4c - 9c$

# Simplifying Linear Expressions (G) Answers

Simplify each expression by combining like terms.

$$\begin{aligned} 1. & -7 + 2w + 6w + 8w - 7w \\ & = 9w - 7 \end{aligned}$$

$$\begin{aligned} 2. & x - 5 + x - 8x + 7 \\ & = -6x + 2 \end{aligned}$$

$$\begin{aligned} 3. & -2 - 6j - 7j + 3 - 7j \\ & = -20j + 1 \end{aligned}$$

$$\begin{aligned} 4. & z + 5 + 9z - 6z + 4z \\ & = 8z + 5 \end{aligned}$$

$$\begin{aligned} 5. & -2f - 7f + 4 + 3 - 4 \\ & = -9f + 3 \end{aligned}$$

$$\begin{aligned} 6. & 3y - 7 + 5 - 4y + 9y \\ & = 8y - 2 \end{aligned}$$

$$\begin{aligned} 7. & -j - 3j - j - 8 + 4j \\ & = -j - 8 \end{aligned}$$

$$\begin{aligned} 8. & 1 - 8y + y - 4 - 4 \\ & = -7y - 7 \end{aligned}$$

$$\begin{aligned} 9. & -8c - c - 4 + 2 - 1 \\ & = -9c - 3 \end{aligned}$$

$$\begin{aligned} 10. & 3 - 1 + 6c - 4c - 9c \\ & = -7c + 2 \end{aligned}$$