

Simplifying Linear Expressions (D)

Simplify each expression by combining like terms.

1. $-3 + 7 + 9 + 3v + v - 8 + 3 - 2v$

2. $-q + 5q + q + 3 + 2q + 8q + q - 4q + 4$

3. $-g + 9g - 5g - 5g + 8g - 9g - 3g$

4. $-3r - 2r - 6 - 1 - 7r + 9r$

5. $9t + t + 9t - 3t + 4 + 8t + 1 - 2 - 6$

6. $-2z + 7z + 6z - 3z - 4 + 9 - 1 + 8z + 5$

7. $2k - 9 - 9k + 3k + 7k + 7k + 9 + 5k$

8. $-j - 3j - 9j - 4 + 7 - 6j - 7j - 8 + 5j$

9. $5b + b - 6 + 5 + 9 + 3$

10. $-7n - 8n - 9 + 5n + 3 + n + 5 + 6 - 6$

Simplifying Linear Expressions (D) Answers

Simplify each expression by combining like terms.

$$\begin{aligned} 1. & -3 + 7 + 9 + 3v + v - 8 + 3 - 2v \\ & = 2v + 8 \end{aligned}$$

$$\begin{aligned} 2. & -q + 5q + q + 3 + 2q + 8q + q - 4q + 4 \\ & = 12q + 7 \end{aligned}$$

$$\begin{aligned} 3. & -g + 9g - 5g - 5g + 8g - 9g - 3g \\ & = -6g \end{aligned}$$

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

$$\begin{aligned} 5. & 9t + t + 9t - 3t + 4 + 8t + 1 - 2 - 6 \\ & = 24t - 3 \end{aligned}$$

$$\begin{aligned} 6. & -2z + 7z + 6z - 3z - 4 + 9 - 1 + 8z + 5 \\ & = 16z + 9 \end{aligned}$$

$$\begin{aligned} 7. & 2k - 9 - 9k + 3k + 7k + 7k + 9 + 5k \\ & = 15k \end{aligned}$$

$$\begin{aligned} 8. & -j - 3j - 9j - 4 + 7 - 6j - 7j - 8 + 5j \\ & = -21j - 5 \end{aligned}$$

$$\begin{aligned} 9. & 5b + b - 6 + 5 + 9 + 3 \\ & = 6b + 11 \end{aligned}$$

$$\begin{aligned} 10. & -7n - 8n - 9 + 5n + 3 + n + 5 + 6 - 6 \\ & = -9n - 1 \end{aligned}$$