

# Simplifying Linear Expressions (J)

Simplify each expression by combining like terms.

1.  $-7 - 5f - 4 + 3f + 9 - 7f + 3$

2.  $-8k - k - 7k - 3k - 9k + 9k - 4k + k + 4k - 5$

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

4.  $6 - 2 - 5 + t + 4 - 4 + 3t + 5t$

5.  $8a + 8 - 3 - 4a - 7 - 7a$

6.  $7n + 3n - 1 - 4 - 3 - 7n + 9$

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

8.  $8w + 5w - 8 + 3 + 9w + 7w + 6w$

9.  $-7d + 2 + 2d + 7d + 7 - 6d - 8 + 6$

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

# Simplifying Linear Expressions (J) Answers

Simplify each expression by combining like terms.

$$1. -7 - 5f - 4 + 3f + 9 - 7f + 3 \\ = -9f + 1$$

$$2. -8k - k - 7k - 3k - 9k + 9k - 4k + k + 4k - 5 \\ = -18k - 5$$

$$3. -6y + 5 + 4 - 3y + 5y + 3y - 5 \\ = -y + 4$$

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

$$5. 8a + 8 - 3 - 4a - 7 - 7a \\ = -3a - 2$$

$$6. 7n + 3n - 1 - 4 - 3 - 7n + 9 \\ = 3n + 1$$

$$7. 5 - 5 - 2r - 9 - 4r - 6r + 8 - r + 3 \\ = -13r + 2$$

$$8. 8w + 5w - 8 + 3 + 9w + 7w + 6w \\ = 35w - 5$$

$$9. -7d + 2 + 2d + 7d + 7 - 6d - 8 + 6 \\ = -4d + 7$$

$$10. -6z + 5 + 6z + 5z + 7z - 3 + 9 + 8z \\ = 20z + 11$$