

## Simplifying Expressions (C)

Simplify each expression.

1.  $-\frac{30v^3}{3v \cdot 10v} \cdot 5v$

6.  $-8y^2 \cdot (-1) \cdot 7y \cdot (-y)$

2.  $\frac{35c^2}{7c^2} \cdot c \cdot c$

7.  $\frac{x^2}{x \cdot (-1) \cdot (-1)}$

3.  $5u \cdot 5 \cdot u^2 \cdot (-1)$

8.  $-3a^2 \cdot a^2 \cdot 3a \cdot 7a$

4.  $-9u^2 \cdot (-1) \cdot \frac{4u}{4}$

9.  $-5a \cdot (-2) \cdot a \cdot 8a^2$

5.  $y \cdot \frac{7y^4}{7y^2} \cdot 10y$

10.  $-\frac{z}{-z} \cdot (-z) \cdot 8z^2$

## Simplifying Expressions (C) Answers

Simplify each expression.

$$\begin{aligned} 1. & -\frac{30v^3}{3v \cdot 10v} \cdot 5v \\ & = -5v^2 \end{aligned}$$

$$\begin{aligned} 6. & -8y^2 \cdot (-1) \cdot 7y \cdot (-y) \\ & = -56y^4 \end{aligned}$$

$$\begin{aligned} 2. & \frac{35c^2}{7c^2} \cdot c \cdot c \\ & = 5c^2 \end{aligned}$$

$$\begin{aligned} 7. & \frac{x^2}{x \cdot (-1) \cdot (-1)} \\ & = x \end{aligned}$$

$$\begin{aligned} 3. & 5u \cdot 5 \cdot u^2 \cdot (-1) \\ & = -25u^3 \end{aligned}$$

$$\begin{aligned} 8. & -3a^2 \cdot a^2 \cdot 3a \cdot 7a \\ & = -63a^6 \end{aligned}$$

$$\begin{aligned} 4. & -9u^2 \cdot (-1) \cdot \frac{4u}{4} \\ & = 9u^3 \end{aligned}$$

$$\begin{aligned} 9. & -5a \cdot (-2) \cdot a \cdot 8a^2 \\ & = 80a^4 \end{aligned}$$

$$\begin{aligned} 5. & y \cdot \frac{7y^4}{7y^2} \cdot 10y \\ & = 10y^4 \end{aligned}$$

$$\begin{aligned} 10. & -\frac{z}{-z} \cdot (-z) \cdot 8z^2 \\ & = -8z^3 \end{aligned}$$