

## Simplifying Expressions (J)

Simplify each expression.

1.  $-x \cdot \left(-\frac{xy}{-x}\right) \cdot (-x)$

6.  $-v \cdot uv \cdot (-7v) \cdot u^2$

2.  $-c^2 \cdot c \cdot c \cdot 3c^2$

7.  $7z \cdot (-x) \cdot z^2 \cdot xz$

3.  $\frac{ab^2}{ab} \cdot (-2ab) \cdot 4ab$

8.  $-u^2 \cdot \frac{8u^2v^2}{2v \cdot 4u}$

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

9.  $-y \cdot \left(-\frac{54v^2y}{-9v^2}\right) \cdot y^2$

5.  $u^2 \cdot (-u) \cdot 7u \cdot u$

10.  $8 \cdot \frac{56u^2v}{7uv} \cdot u$

## Simplifying Expressions (J) Answers

Simplify each expression.

$$\begin{aligned} 1. & -x \cdot \left( -\frac{xy}{-x} \right) \cdot (-x) \\ & = x^2y \end{aligned}$$

$$\begin{aligned} 6. & -v \cdot uv \cdot (-7v) \cdot u^2 \\ & = 7u^3v^3 \end{aligned}$$

$$\begin{aligned} 2. & -c^2 \cdot c \cdot c \cdot 3c^2 \\ & = -3c^6 \end{aligned}$$

$$\begin{aligned} 7. & 7z \cdot (-x) \cdot z^2 \cdot xz \\ & = -7x^2z^4 \end{aligned}$$

$$\begin{aligned} 3. & \frac{ab^2}{ab} \cdot (-2ab) \cdot 4ab \\ & = -8a^2b^3 \end{aligned}$$

$$\begin{aligned} 8. & -u^2 \cdot \frac{8u^2v^2}{2v \cdot 4u} \\ & = -u^3v \end{aligned}$$

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

$$\begin{aligned} 9. & -y \cdot \left( -\frac{54v^2y}{-9v^2} \right) \cdot y^2 \\ & = -6y^4 \end{aligned}$$

$$\begin{aligned} 5. & u^2 \cdot (-u) \cdot 7u \cdot u \\ & = -7u^5 \end{aligned}$$

$$\begin{aligned} 10. & 8 \cdot \frac{56u^2v}{7uv} \cdot u \\ & = 64u^2 \end{aligned}$$