

## Simplifying Expressions (C)

Simplify each expression.

$$1. -\frac{5z^2}{5z^2} \cdot z^2 \cdot (-z) \cdot 7z$$

$$6. -\frac{3by^2}{-1 \cdot (-b) \cdot (-y) \cdot (-3)}$$

$$2. 4 \cdot 2 \cdot \frac{2v^3z}{2vz} \cdot z$$

$$7. \frac{72ay^4}{9y \cdot 8ay} \cdot (-1) \cdot y$$

$$3. -\frac{3200b^5c}{-10b^2 \cdot (-4b^2) \cdot 10 \cdot 8b}$$

$$8. 3 \cdot \left(-\frac{2}{2}\right) \cdot 9v \cdot 5v^2$$

$$4. -5 \cdot 9v \cdot v^2 \cdot (-v^2) \cdot cv$$

$$9. -u^2 \cdot 2 \cdot (-u) \cdot (-u) \cdot cu$$

$$5. uy \cdot 8 \cdot 7uy \cdot (-10u) \cdot y$$

$$10. ac \cdot (-1) \cdot 10c \cdot (-ac) \cdot (-a^2)$$

## Simplifying Expressions (C) Answers

Simplify each expression.

$$\begin{aligned} 1. & -\frac{5z^2}{5z^2} \cdot z^2 \cdot (-z) \cdot 7z \\ & = 7z^4 \end{aligned}$$

$$\begin{aligned} 6. & -\frac{3by^2}{-1 \cdot (-b) \cdot (-y) \cdot (-3)} \\ & = -y \end{aligned}$$

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

$$\begin{aligned} 7. & \frac{72ay^4}{9y \cdot 8ay} \cdot (-1) \cdot y \\ & = -y^3 \end{aligned}$$

$$\begin{aligned} 3. & -\frac{3200b^5c}{-10b^2 \cdot (-4b^2) \cdot 10 \cdot 8b} \\ & = -c \end{aligned}$$

$$\begin{aligned} 8. & 3 \cdot \left(-\frac{2}{2}\right) \cdot 9v \cdot 5v^2 \\ & = -135v^3 \end{aligned}$$

$$\begin{aligned} 4. & -5 \cdot 9v \cdot v^2 \cdot (-v^2) \cdot cv \\ & = 45cv^6 \end{aligned}$$

$$\begin{aligned} 9. & -u^2 \cdot 2 \cdot (-u) \cdot (-u) \cdot cu \\ & = -2cu^5 \end{aligned}$$

$$\begin{aligned} 5. & uy \cdot 8 \cdot 7uy \cdot (-10u) \cdot y \\ & = -560u^3y^3 \end{aligned}$$

$$\begin{aligned} 10. & ac \cdot (-1) \cdot 10c \cdot (-ac) \cdot (-a^2) \\ & = -10a^4c^3 \end{aligned}$$