

## Simplifying Expressions (D)

Simplify each expression.

1.  $-\frac{120x^4}{2x \cdot 10x}$

6.  $\frac{8c^2}{-c} \cdot 4$

2.  $2 \cdot \left(-\frac{6v^3}{-v^2}\right)$

7.  $\frac{25a^4}{-5a \cdot a^2}$

3.  $4 \cdot (-7b^2) \cdot (-6b^2)$

8.  $\frac{10u^4}{10u^2} \cdot 9u$

4.  $\frac{y^3}{y \cdot y}$

9.  $\frac{4y^4}{4y^2} \cdot 8y^2$

5.  $\frac{x^3}{-x} \cdot (-1)$

10.  $-x \cdot (-3x^2) \cdot (-x)$

## Simplifying Expressions (D) Answers

Simplify each expression.

$$1. -\frac{120x^4}{2x \cdot 10x} \\ = -6x^2$$

$$6. \frac{8c^2}{-c} \cdot 4 \\ = -32c$$

$$2. 2 \cdot \left( -\frac{6v^3}{-v^2} \right) \\ = 12v$$

$$7. \frac{25a^4}{-5a \cdot a^2} \\ = -5a$$

$$3. 4 \cdot (-7b^2) \cdot (-6b^2) \\ = 168b^4$$

$$8. \frac{10u^4}{10u^2} \cdot 9u \\ = 9u^3$$

$$4. \frac{y^3}{y \cdot y} \\ = y$$

$$9. \frac{4y^4}{4y^2} \cdot 8y^2 \\ = 8y^4$$

$$5. \frac{x^3}{-x} \cdot (-1) \\ = x^2$$

$$10. -x \cdot (-3x^2) \cdot (-x) \\ = -3x^4$$