

## Properties of Exponents

### Common Standard

**Algebra: Exponents** Exponents are used to represent repeated multiplication. Exponents are used to represent powers of numbers. Exponents are used to represent powers of variables. Exponents are used to represent powers of expressions.

Exponents follow patterns. Discover the patterns and the properties of exponents. Discover that no denominator is equal to zero and that is not a real number.

### Properties: Properties of Exponents

$$a^m \cdot a^n = a^{m+n}$$

$$\frac{a^m}{a^n} = a^{m-n}$$

$$a^m \cdot b^m = (a \cdot b)^m$$

$$\frac{a^m \cdot b^m}{c^m} = \left(\frac{a \cdot b}{c}\right)^m$$

$$\frac{a^m}{a^n} = a^{m-n}$$

### Example

Simplify each product or quotient involving only positive exponents.

a.  $3x^2y^3 \cdot 4x^3y^2$

$$\begin{aligned} 3x^2y^3 \cdot 4x^3y^2 &= 12x^{2+3}y^{3+2} \\ &= 12x^5y^5 \\ &= 12x^5y^5 \end{aligned}$$

b.  $2x^3y^2 \cdot 3x^2y^3$

$$\begin{aligned} 2x^3y^2 \cdot 3x^2y^3 &= 6x^{3+2}y^{2+3} \\ &= 6x^5y^5 \\ &= 6x^5y^5 \end{aligned}$$

c.  $\frac{6x^3y^2}{2x^2y^3}$

$$\begin{aligned} \frac{6x^3y^2}{2x^2y^3} &= \frac{6}{2}x^{3-2}y^{2-3} \\ &= 3x^1y^{-1} \\ &= \frac{3x}{y} \end{aligned}$$

### Exercises

Simplify each expression. Show only positive exponents.

1.  $2x^2y^3 \cdot 3x^3y^2$

2.  $4x^3y^2 \cdot 5x^2y^3$

3.  $\frac{6x^3y^2}{2x^2y^3}$

4.  $3x^2y^3 \cdot 4x^3y^2$

5.  $\frac{5x^3y^2}{3x^2y^3}$

6.  $\frac{4x^3y^2}{3x^2y^3} \cdot 6$

7.  $2x^3y^2 \cdot 3x^2y^3$

8.  $\frac{5x^3y^2}{3x^2y^3}$

9.  $\frac{4x^3y^2}{3x^2y^3}$

10.  $\frac{5x^3y^2}{3x^2y^3} \cdot 6$

11.  $\frac{4x^3y^2}{3x^2y^3} \cdot 6$

12.  $\frac{4x^3y^2}{3x^2y^3} \cdot 6$

13.  $2x^3y^2 \cdot 3x^2y^3$

14.  $\frac{5x^3y^2}{3x^2y^3}$

15.  $\frac{4x^3y^2}{3x^2y^3}$

16.  $\frac{5x^3y^2}{3x^2y^3} \cdot 6$

17.  $\frac{4x^3y^2}{3x^2y^3} \cdot 6$

18.  $\frac{4x^3y^2}{3x^2y^3} \cdot 6$

**Check:** Simplify each expression. Show only positive exponents.  $\frac{4x^3y^2}{3x^2y^3} \cdot 6 = 8x^1y^{-1}$  and the other expressions are simplified.

# Concept Byte Properties Of Exponents

**H Kauffman**



## Concept Byte Properties Of Exponents:

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