

## Applying the Laws of Exponents: Verbal/Symbolic

**Name:**

**Date:**

### Vocabulary Review:

In your own words, define each of the following vocabulary terms.

- Exponents
- Laws of Exponents

### Apply New Learning:

1. Write down a memory tool to remember all the laws of exponents. Explain how your memory tool will help you.

Simplify each of the following expressions.

2.  $(3x^3)(2x^8y^7)$

3.  $\frac{-4x^5y^7}{2x^2y^7}$

4.  $6^0$

5.  $(3a^2b^3)^4 (4a^6b^9)^{-1}$

6.  $(6x^3)^2$

7.  $\frac{(4a^2b^3)^4}{2c^8} \times \frac{(4c^5)^2}{2a^2b^1}$