

Name _____

Power Uses Answer Key

1. 2^{16}

2. x^6

3. 10^4

4. a^6

5. $16m^2$

6. b^9

7. 10^{10}

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

9. $9p^2$

10. n^8

Teacher's Guide

- Discuss how exponents naturally appear in geometry, technology, and science before students begin.
- Encourage students to identify the exponent property needed before simplifying each expression.
- Support students by having them underline the key words that indicate multiplication, division, or repeated powers.
- Pair students to compare which exponent property they selected for each scenario before checking answers.
- Ask students to explain how the real-world context matches the mathematical expression.
- Extend learning by having students write a short real-world scenario that models one exponent property and exchange it with a classmate to solve.