

Name _____

Properties In Order Answer Key

1. x^{10}

2. m^4

3. $4a^5$

4. $\frac{y^5}{z^3}$

5. b^3

6. $9c^6$

7. n^7

8. p^9

9. $64r^2$

10. $\frac{h^5}{k^2}$

Teacher's Guide

- Review the order for applying exponent properties before students begin. Simplify powers first, then combine or divide like bases.
- Encourage students to write each intermediate step instead of simplifying mentally to reduce errors.
- Provide students who need support with a reference chart of the exponent properties and worked examples.
- Ask students to identify the properties used in each problem after finding the final answer.
- Have pairs compare solutions and explain why the order of the steps matters.
- Extend learning by having students create one multi-step exponent expression that requires at least two different exponent properties and exchange it with a classmate to solve.