

Property Pick Answer Key

1. A. Product of Powers, x^8
2. C. Power of a Power, m^8
3. B. Quotient of Powers, a^5
4. D. Power of a Product, 2^3b^3 or $8b^3$
5. E. Power of a Quotient, $\frac{y^2}{z^2}$
6. A. Product of Powers, n^8
7. C. Power of a Power, c^{15}
8. B. Quotient of Powers, p^5
9. D. Power of a Product, 4^2r^2 or $16r^2$
10. E. Power of a Quotient, $\frac{h^3}{5^3}$ or $\frac{h^3}{125}$

Teacher's Guide

- Review the five exponent properties before students begin and encourage them to identify the rule before simplifying.
- Remind students to look at the structure of the expression first, not just the exponents.
- Support students by highlighting key clues, such as parentheses, multiplication, or division symbols.
- Have partners compare property choices before checking simplified answers.
- Turn the activity into a class discussion by asking volunteers to explain why a particular property applies.
- Extend learning by having students write one example for each property and challenge a classmate to identify and simplify it.