

Name _____

Power in Action Answer Key

1. 2^{12}
2. 2^8
3. 10^6
4. 5^2m^2
5. $3^2 \times 10^8$
6. $24^3 \div 6^3$
7. 2^5
8. x^6

Teacher's Guide

- Ask students to identify the exponent law before simplifying each expression.
- Encourage students to underline the part of the expression that signals which law to use, such as multiplication, division, or parentheses.
- For students needing support, provide a reference sheet of exponent laws and review one example from each category.
- Have students work in pairs to explain how the real-world context connects to the mathematical expression before solving.
- Challenge advanced students to simplify any numerical coefficients completely when appropriate, such as rewriting 3^2 as 9 in Problem 5.
- Extend the activity by having students write their own real-world scenario that uses one exponent law and exchange it with a classmate to solve.