

Name _____

Power Puzzle Answer Key

1. 4
2. 5
3. 4
4. 6
5. 3
6. 6
7. 6
8. 4
9. 3
10. 4^4
11. 11^6
12. 12^6

Teacher's Guide

- Review one example for each exponent law before students begin the puzzle.
- Encourage students to identify the exponent law first, then solve for the missing value.
- Have students check their answers by substituting the missing value back into the equation.
- For students needing support, provide a reference chart of the Product of Powers, Quotient of Powers, Power of a Power, Power of a Product, and Power of a Quotient laws.
- Increase engagement by having students compare answers with a partner and explain which law they used for each problem.
- Extend the activity by asking students to create three new missing exponent puzzles for a classmate to solve, using different exponent laws.