

Power Check Answer Key

1. True
2. True
3. True
4. False. Correct statement: 5^4 means $5 \times 5 \times 5 \times 5$.
5. True
6. True
7. False. Correct statement: In 9^2 , the exponent is 2.
8. True
9. True
10. True

Teacher's Guide

- Review the meanings of base and exponent before students begin.
- Encourage students to explain why a false statement is incorrect before writing the correction.
- Differentiate by allowing students who need support to rewrite exponent expressions as repeated multiplication before deciding if a statement is true or false.
- Challenge advanced students to create two true statements and two false statements for a partner to solve.
- Increase engagement by reading each statement aloud and having students vote with thumbs up for true or thumbs down for false before discussing.
- Extend learning by asking students to rewrite every exponent expression in the worksheet as repeated multiplication and identify the base and exponent in each one.
- Reinforce common misconceptions by reminding students that the exponent is not multiplied by the base. It tells how many equal factors are multiplied together.