

Power Chart Answer Key

Exponent Form Expanded Form Value

1. 2^3	$2 \times 2 \times 2$	8
2. 5^2	5×5	25
3. 3^4	$3 \times 3 \times 3 \times 3$	81
4. 4^2	4×4	16
5. 10^3	$10 \times 10 \times 10$	1,000
6. 6^2	6×6	36
7. 3^5	$3 \times 3 \times 3 \times 3 \times 3$	243
8. 8^2	8×8	64
9. 9^2	9×9	81
10. 12^2	12×12	144

Teacher's Guide

- Review the relationship among exponent form, repeated multiplication, and numerical value before students begin.
- Encourage students to complete the easiest part of each row first, then use it to find the missing information.
- Differentiate by allowing students who need support to use multiplication charts or counters to verify the values.
- Challenge advanced students to explain how they knew the missing exponent or expanded form without writing every step first.
- Have partners compare completed tables and explain one row to each other using the terms base, exponent, expanded form, and value.
- Extend the activity by asking students to create two new rows for the table and exchange them with a classmate to complete.
- Reinforce mathematical vocabulary by discussing how each row shows three different representations of the same expression.