

Powers of 10

Numbers & Patterns · Grade 5

Score: _____ / 10

● Easy · 10 Questions

Solve each problem. Show your work in the space provided. Write your answer on the line.

1. What is 10 to the 5th power ($10 \times 10 \times 10 \times 10 \times 10$)?

Answer: _____

2. What is the value of 10 to the 2nd power (10×10)?

Answer: _____

3. What is 10 to the 3rd power ($10 \times 10 \times 10$)?

Answer: _____

4. How many tens multiplied together give 10,000?

Answer: _____

5. 100 equals how many tens multiplied together?

Answer: _____

6. What is 10 to the 1st power?

Answer: _____

7. How many zeros does 10^6 have?

Answer: _____

8. Write $10 \times 10 \times 10 \times 10$ as a power of 10.

Answer: _____

9. What is 1,000 written as a power of 10?

Answer: _____

10. $10 \times 10 \times 10 = \underline{\quad}$

Answer: _____

Answer Key

Powers of 10 — Easy

1. **100,000**

Each power of 10 adds a zero. 5 tens $\rightarrow$ 100,000.

2. **100**

$10 \times 10 = 100$.

3. **1,000**

$10 \times 10 = 100$. $100 \times 10 = 1,000$.

4. **4**

10,000 has 4 zeros, so $10 \times 10 \times 10 \times 10 = 10,000$.

5. **2**

$10 \times 10 = 100$, so 2 tens.

6. **10**

$10^1 = 10$ (just one ten).

7. **6**

The exponent equals the number of zeros: $10^6 = 1,000,000$ (6 zeros).

8. **10^4**

Four tens multiplied = 10^4 .

9. **10^3**

1,000 has 3 zeros, so it equals 10^3 .

10. **1,000**

$10 \times 10 = 100$, then $100 \times 10 = 1,000$.