Aksum Math

Powers of 10

Numbers & Patterns · Grade 5

◆ **Medium · 10 Questions**

Name: _____

Date: _____

Score: _____ / 10

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

1. What is 10^4?

Answer: _____

2. Write 1,000,000 as a power of 10.

Answer: _____

© 2026 Aksum Math · aksummath.com · All rights reserved

3. What is 10^5?

Answer: _____

4. When multiplying any number by 100 (a power of 10), how many places does the decimal point shift?

Answer: _____

5. Use the powers of 10 pattern: 4.5 × 1,000 = ___

Answer: _____

© 2026 Aksum Math · aksummath.com · All rights reserved

6. Write 10,000,000 as a power of 10.

Answer: _____

7. What is 2.3×10^2?

Answer: _____

8. Dividing by 10^3 shifts the decimal how many places to the left?

Answer: _____

© 2026 Aksum Math · aksummath.com · All rights reserved

9. Write 100,000 as a power of 10.

Answer: _____

10. What is the value of 6×10^4?

Answer: _____

© 2026 Aksum Math · aksummath.com · All rights reserved

Answer Key

Powers of 10 — Medium

1. **10,000**

10^4=10,000. Each power of 10 adds a zero.

2. **10^6**

1,000,000 has 6 zeros. So it equals 10^6.

3. **100,000**

$10^5 = 10\times10\times10\times10\times10 = 100{,}000$.

4. **2 places to the right**

$100 = 10^2$ is a power of 10 with 2 zeros, so the decimal shifts 2 places right.

5. **4,500**

1,000 is a power of 10 (10^3). Multiplying by it shifts the decimal 3 places right: 4.5 → 4,500.

6. **10^7**

10,000,000 has 7 zeros, so it equals 10^7.

7. **230**

Multiply by 100: 2.3 → 230 (shift decimal 2 places right).

8. **3**

Dividing by 10^3 = 1,000 shifts the decimal 3 places left.

9. **10^5**

100,000 has 5 zeros, so it equals 10^5.

10. **60,000**

10^4 = 10,000. So 6 × 10,000 = 60,000.

© 2026 Aksum Math · aksummath.com · All rights reserved