

Writing Powers in Expanded Form

Name: _____

Date: _____

Instructions: Write each power in expanded form (as repeated multiplication), then calculate the value.

Example: $3^4 = 3 \times 3 \times 3 \times 3 = 81$

Section A: Write in Expanded Form and Calculate

1. $2^5 =$ _____ $=$ _____
2. $5^3 =$ _____ $=$ _____
3. $4^2 =$ _____ $=$ _____
4. $10^3 =$ _____ $=$ _____
5. $3^4 =$ _____ $=$ _____
6. $6^2 =$ _____ $=$ _____

Section B: Write as a Power

Write the repeated multiplication as a power.

7. $7 \times 7 \times 7 =$ _____
8. $9 \times 9 =$ _____
9. $2 \times 2 \times 2 \times 2 \times 2 \times 2 =$ _____
10. $5 \times 5 \times 5 \times 5 =$ _____

Section C: Calculate the Value

- | | |
|--------------------|-------------------|
| 11. $2^3 =$ _____ | 12. $8^2 =$ _____ |
| 13. $10^4 =$ _____ | 14. $1^5 =$ _____ |
| 15. $7^2 =$ _____ | 16. $4^3 =$ _____ |