

# Evaluating Simple Powers

Name: \_\_\_\_\_

Date: \_\_\_\_\_

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**Remember:** A power tells us how many times to multiply a number by itself.

For example:  $3^4 = 3 \times 3 \times 3 \times 3 = 81$

## Part A: Calculate these powers

1.  $2^3 =$  \_\_\_\_\_

2.  $5^2 =$  \_\_\_\_\_

3.  $4^2 =$  \_\_\_\_\_

4.  $3^3 =$  \_\_\_\_\_

5.  $10^2 =$  \_\_\_\_\_

6.  $2^5 =$  \_\_\_\_\_

7.  $6^2 =$  \_\_\_\_\_

8.  $1^4 =$  \_\_\_\_\_

9.  $7^2 =$  \_\_\_\_\_

10.  $2^4 =$  \_\_\_\_\_

## Part B: Write the repeated multiplication and calculate

11.  $3^4 =$  \_\_\_\_\_  $\times$  \_\_\_\_\_  $\times$  \_\_\_\_\_  $\times$  \_\_\_\_\_  $=$  \_\_\_\_\_

12.  $5^3 =$  \_\_\_\_\_  $\times$  \_\_\_\_\_  $\times$  \_\_\_\_\_  $=$  \_\_\_\_\_

13.  $8^2 =$  \_\_\_\_\_  $\times$  \_\_\_\_\_  $=$  \_\_\_\_\_

14.  $2^6 =$  \_\_\_\_\_  $\times$  \_\_\_\_\_  $\times$  \_\_\_\_\_  $\times$  \_\_\_\_\_  $\times$  \_\_\_\_\_  $\times$  \_\_\_\_\_  $=$  \_\_\_\_\_

## Part C: Write in exponent form

15.  $4 \times 4 \times 4 =$  \_\_\_\_\_

16.  $9 \times 9 =$  \_\_\_\_\_

17.  $2 \times 2 \times 2 \times 2 \times 2 =$  \_\_\_\_\_

18.  $10 \times 10 \times 10 =$  \_\_\_\_\_

## Part D: Challenge problems

19. Which is greater:  $2^5$  or  $5^2$ ? \_\_\_\_\_

20. What is the value of  $3^2 + 4^2$ ? \_\_\_\_\_

21. If  $6^2 = 36$ , what is the value of  $6^3$ ? \_\_\_\_\_