



## Exponents - Introduction

Base  $\longrightarrow$   $2^3 = 2 \times 2 \times 2$

Exponent

The exponent tells us how many times the base is multiplied by itself.

Rewrite the following exponents using repeated multiplication and solve.  
For example,  $3^2 = 3 \times 3 = 9$

1)  $4^2 =$  \_\_\_\_\_

6)  $8^3 =$  \_\_\_\_\_

2)  $2^8 =$  \_\_\_\_\_

7)  $4^4 =$  \_\_\_\_\_

3)  $3^3 =$  \_\_\_\_\_

8)  $10^5 =$  \_\_\_\_\_

4)  $5^4 =$  \_\_\_\_\_

9)  $12^2 =$  \_\_\_\_\_

5)  $7^2 =$  \_\_\_\_\_

10)  $6^4 =$  \_\_\_\_\_

Rewrite the following expressions using exponents in the form of  
**'Base raised to the power of exponent'**

11)  $8 \times 8 \times 8 =$  \_\_\_\_\_

12)  $7 \times 7 \times 7 \times 7 =$  \_\_\_\_\_

13)  $6 \times 6 \times 6 \times 6 \times 6 =$  \_\_\_\_\_

14)  $5 \times 5 \times 5 =$  \_\_\_\_\_

15)  $2 \times 2 \times 2 \times 2 =$  \_\_\_\_\_

16)  $10 \times 10 =$  \_\_\_\_\_

17)  $6 \times 6 \times 6 =$  \_\_\_\_\_

18)  $3 \times 3 \times 3 \times 3 =$  \_\_\_\_\_

19)  $4 \times 4 \times 4 =$  \_\_\_\_\_

20)  $7 \times 7 \times 7 \times 7 \times 7 =$  \_\_\_\_\_