

# Mathematics - Using Exponents

Diagram illustrating the relationship between a base number and an exponent:

$$8^3 = 8 \times 8 \times 8$$

The base number is 8, and the exponent is 3.

**Directions:** Change the multiplication expressions to the exponents.

1.  $3 \times 3 \times 3 \times 3 =$

2.  $6 \times 6 \times 6 \times 6 \times 6 \times 6 =$

3.  $8 \times 8 \times 8 =$

4.  $2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 =$

5.  $4 \times 4 \times 4 \times 4 \times 4 =$

6.  $1 \times 1 \times 1 \times 1 \times 1 \times 1 \times 1 =$

**Directions:** Write out the expressions below.

7.  $9^3 =$  \_\_\_\_\_

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

9.  $5^4 =$  \_\_\_\_\_

10.  $12^6 =$  \_\_\_\_\_



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