



Introduction to Exponents: Understanding the Key Terms

When a number is multiplied by itself over and over again, it results in repeated multiplication. This concept of **repeated multiplication** is known as **Exponents**. Let us look at the terms of exponents.

$2^3 = 2 \times 2 \times 2 = 8$

Base: the factor that is repeatedly multiplied

Exponent: tells how many times the base is used as a factor

Expanded form: uses the base and exponent the repeated multiplication

Value: the result of your calculation, or the answer is the product of multiplication

Let's practice the concept of Exponents. Understand and fill the blanks :

$$4^2$$

Base number: _____ Exponent: _____

Expanded form: _____

Value: _____

$$5^3$$

Base number: _____ Exponent: _____

Expanded form: _____

Value: _____

$$10^4$$

Base number: _____ Exponent: _____

Expanded form: _____

Value: _____

$$2^5$$

Base number: _____ Exponent: _____

Expanded form: _____

Value: _____

$$6^3$$

Base number: _____ Exponent: _____

Expanded form: _____

Value: _____

$$3^4$$

Base number: _____ Exponent: _____

Expanded form: _____

Value: _____