Introduction of Exponents

⇨ The word **'exponent'** indicates how many times a number is being multiplied.

In the exponential form, the number which is repeatedly multiplied is called the **base** and the number of times it is repeated is called the **exponent** or **power** or index. This notation of writing the product of a rational number by itself several times is called the **exponentialnotation**.

Example: In a^7 Base is a and Exponent is 7

If the base is a negative integer, then the product will be either negative or positive, depending upon whether the exponent is an odd number or an even number.

Example: In $(-7)^3 = -343$ (Power is odd, so the product is negative)

In $(-2)^6 = 64$ (Power is even, so the product is positive)