

Exponents

A **power** is the product of multiplying a number by itself. It is represented as a **base number** and an **exponent**. The base number indicates what number is being multiplied, and the exponent indicates how many times the base number is to be multiplied.

$$\underset{\substack{\uparrow \\ \text{base}}}{3}^{\substack{\downarrow \\ \text{exponent}}}{2} = \underset{\substack{\uparrow \\ \text{factors}}}{3} \times 3 = 9$$

Squares

$$1^2 = 1 \times 1 = 1$$

$$2^2 = 2 \times 2 = 4$$

$$3^2 = 3 \times 3 = 9$$

$$4^2 = 4 \times 4 = 16$$

$$5^2 = 5 \times 5 = 25$$

$$6^2 = 6 \times 6 = 36$$

$$7^2 = 7 \times 7 = 49$$

$$8^2 = 8 \times 8 = 64$$

$$9^2 = 9 \times 9 = 81$$

$$10^2 = 10 \times 10 = 100$$

$$11^2 = 11 \times 11 = 121$$

$$12^2 = 12 \times 12 = 144$$

Exponential Form

$$5^3$$

Expanded (factors) Form

$$5 \times 5 \times 5$$

Word Form

five to the 3rd power

Standard Form

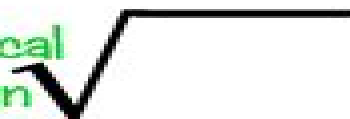
$$125$$

Any number raised to the zero power is always 1

Square Roots

Every positive number has 2 square roots. Finding the square root is the opposite or inverse operation of squaring a number. **The square root of a number is one of its two equal factors.** For example, 36 has two square roots, 6 & -6, because $6 \times 6 = 36$ and $-6 \times -6 = 36$.

radical sign



Square Roots

$$\sqrt{1} = \pm 1$$

$$\sqrt{4} = \pm 2$$

$$\sqrt{9} = \pm 3$$

$$\sqrt{16} = \pm 4$$

$$\sqrt{25} = \pm 5$$

$$\sqrt{36} = \pm 6$$

$$\sqrt{49} = \pm 7$$

$$\sqrt{64} = \pm 8$$

$$\sqrt{81} = \pm 9$$

$$\sqrt{100} = \pm 10$$

$$\sqrt{121} = \pm 11$$

$$\sqrt{144} = \pm 12$$

*The square root of 25, is 5

$$\sqrt{25} = 5$$

*The negative square root of 25, is -5

$$-\sqrt{25} = -5$$

$$\begin{aligned} 4^2 &= 16 \\ \sqrt{16} &= 4 \end{aligned}$$

Middle School Exponents And Square Roots Activities

R Bogdan



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