ROSARY SCHOOL
Marj Elhamam

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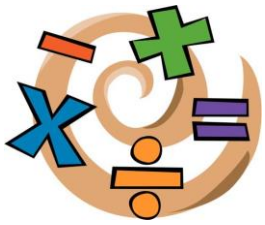
Name : _____ Date : / 10 / 2025

Subject: study sheet Grade : 6 ( )

Squares and Cubes

Squares, Cubes, Square Roots & Cube Roots

❖ Squares



A square number is the result of multiplying a number by itself.

Examples:

$3 \times 3 = 9 \rightarrow 9$ is a square number.

$6 \times 6 = 36 \rightarrow 36$ is a square number.

Common Squares:

$1^2=1$, $2^2=4$, $3^2=9$, $4^2=16$, $5^2=25$, $6^2=36$, $7^2=49$, $8^2=64$, $9^2=81$, $10^2=100$

❖ Cubes

A cube number is the result of multiplying a number by itself three times.

Examples:

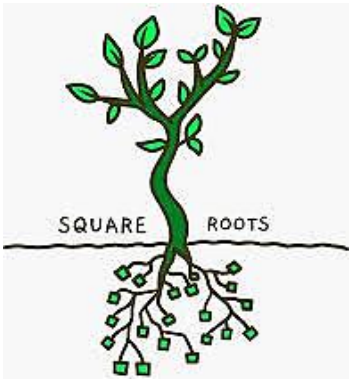
$2 \times 2 \times 2 = 8 \rightarrow 8$ is a cube number.

$3 \times 3 \times 3 = 27 \rightarrow 27$ is a cube number.

Common Cubes:

$1^3=1$, $2^3=8$, $3^3=27$, $4^3=64$, $5^3=125$, $6^3=216$, $7^3=343$, $8^3=512$

❖ Square Roots (√)



The square root of a number is a value that, when multiplied by itself, gives the number.

Examples:

√9 = 3 because 3 × 3 = 9

√25 = 5 because 5 × 5 = 25

Common Square Roots:

√1=1, √4=2, √9=3, √16=4, √25=5, √36=6, √49=7, √64=8, √81=9, √100=10

❖ Cube Roots (∛)

The cube root of a number is a value that, when multiplied by itself three times, gives that number.

Examples:

∛8 = 2 because 2 × 2 × 2 = 8

∛27 = 3 because 3 × 3 × 3 = 27

Common Cube Roots:

∛1=1, ∛8=2, ∛27=3, ∛64=4, ∛125=5, ∛216=6, ∛343=7

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