Square

Square has 4 sides. All Sides are equal.

Perimeter (परिमाप) of Square 4a = 4 x one side

Area of Square = A^2 = $Side^2$

Diagonal (विकर्ण) = √ 2 x side

Reactangle

Rectangle has 2 length and 2 breath

Perimeter (परिमाप) of rectangle= 2 (Length+ Breath)

Area of rectangle= Length x Breath

Diagonal (विकर्ण) = $^2\sqrt{length^2 + Breath^2}$

Right Angle Triangle

Area of Triangle= 1/2x base x height

Perimeter (परिमाप) of Triangle= Perpendicular + Base + Hypotenuse

$Perpendicular^2 + Base^2 = Hypotenuse^2$

Equilateral Triangle

All sides are equal

Perimeter (परिमाप) of triangle = 3 x Side

Area of triangle = √ 3/4 x $Side^2$

Height of Triangle = √ 3/2 Side

Isosceles Triangle

Any of 2 sides are equal and their angles are also equal.

Area of Triangle= ½ x Base x Height

Area of Triangle= b $\sqrt{4side^2 - b^2/4}$

Rhombus

All sides are equal but not angles.

Diagonals intersect each other and make an angle of 90^0.

Perimeter (परिमाप) of Rhombus= 4 x side

Area of Rhombus= 1/2 x d_1 x d_2

Parallelogram

Area of parallelogram= Base x Height

Cube

6 faces, 12 Edges and 8 vertices All sides are equal.

Diagonal (विकर्ण) = √3 x Side

CSA (वक्रपृष्ठ) of Cube= $6side^2$

Volume (आयतन) of Cube= $side^3$

Cuboid

Opposite sides are equal.

Diagonal (विकर्ण) = $^2\sqrt{}$ $length^2 + breath^2 + height^2$

CSA (वक्रपृष्ठ) of cuboid= 2 (lb+bh+hl)

Volume (आयतन) of cuboid= length x breath x height (lbh)

Cylinder

CSA (वक्रपृष्ठ) of cylinder= 2x π radius x height ($2\pi rh$)

TSA (संपूर्ण पृष्ठ) of Cylinder= 2 π r (height + radius) ($2\pi r\ (h+r)$

Volume (आयतन) of cylinder= π $radius^2$ x height (πr^2h)

Cone

CSA (वक्रपृष्ठ) of cone= π x radius x slant height (πrl)

TSA (संपूर्ण पृष्ठ) of cone= π x radius (slant height x radius) $\pi r\ (l+s)$

Volume of (आयतन) cone= 1/3 π x $radius^2$ x height (1/3 πr^2h)

Sphere

CSA/TSA of Sphere= 4 π x radius^2 ($4\pi r^2$)

Volume (आयतन) of Sphere= 4/3 π x radius^3 ($4/3\ \pi r^3$)

Hemisphere

CSA (वक्रपृष्ठ) of Hemisphere= 2π x radius^2 ($2\pi r^2$)

TSA (संपूर्ण पृष्ठ) of Hemisphere= 3π x radius^2 ($3\pi r^2$)

Volume (आयतन) of Hemisphere= 2/3 π x radius^3 ($2/3\ \pi r^3$)

Tetrahedron

Height= $\sqrt{2}/\sqrt{3}$ x side

LSA/CSA (वक्रपृष्ठ) of Tetrahadron= 3 x $\sqrt{3}/4$ x side^2

TSA (संपूर्ण पृष्ठ) of Tetrahadron= $\sqrt{3}$ x side^2

Volume (आयतन) of Tetrahadron= side$^3/6\sqrt{2}$