

TSA and CSA

TSA: Total Surface Area CSA: Curved Surface Area

Cuboid

$$SA = 2 \times l \times w + 2 \times l \times h + 2 \times h \times w$$

SA = Surface Area

l = Length

w = Width (Base)

h = Height

Cube

$$SA = 6a^2$$

SA = Surface Area

a = 1 side

Cylinder

$$SA = 2 \times \pi \times r \times h + 2 \times \pi \times r^2$$

SA = Surface Area

r = Radius

h = Height

Sphere

$$SA = 4 \times \pi \times r^2$$

r = Radius

SA = Surface Area

Hemisphere

$$CSA = 2 \times \pi \times r^2$$

CSA = Curved Surface Area

r = Radius

Tetrahedron

$$SA = 4 \times (\pi \times r^2)$$

SA = Surface Area

r = Radius

Triangular Prism

For The Triangles = $2 \times (b \times h \times 1/2)$

For The Rectangles = $3 \times (l \times a)$

b = Base(or Width)

a = 1 side (or c)

h = Height

l = Length

Cone

$$CSA = \pi \times r \times l$$

$$TSA = \pi \times r \times l + \pi \times r^2$$

TSA = Total Surface Area

CSA = Curved Surface Area

r = Radius

l = Length

Pyramid

$$A = lw + l\sqrt{\left(\frac{w}{2}\right)^2 + h^2} + w\sqrt{\left(\frac{l}{2}\right)^2 + h^2}$$



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