Math Formulas For Surface Area Of 3D Shapes Cheat Sheet

by Cheat via cheatography.com/128959/cs/25392/

TSA and CSA

TSA: Total Surface Area	CSA: Curved Surface Area

Cuboid

SA = 2 x l x w + 2 x l x h + 2 x h x w

SA = Surface Area

l = Length

w = Width (Base)

h = Height

Cube

SA = $6a^2$

SA = Surface Area

a = 1 side

Cylinder

SA = 2 x π x r x h + 2 x π x r^2

SA = Surface Area

r = Radius

h = Height

Sphere

SA = 4 x π x r^2

r = Radius

SA = Surface Area

Hemisphere

CSA = 2 x π x r^2

CSA = Curved Surface Area

r = Radius

Tetrahedron

SA = 4 x (π x r^2)

SA = Surface Area

r = Radius

Triangular Prism

For The Triangles = 2 x (b x h x 1/2)

For The Rectangles = 3 x (l x a)

b = Base(or Width)

a = 1 side (or c)

h = Height

l = Length

Cone

CSA = π x r x l

TSA = π x r x l + π x 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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