

Area, Surface Area & Volume

reference sheet

Two-dimensional plane shapes

The measure of how many squares will fit into a shape.

Umits?

Area

Three-dimensional solid shapes

The measure of the area of all outward facing sides.

Surface Area

Umits?

Volume

The measure of how many cubes will fit into a shape.

Units"

Square

Area = a^2 or $a \times a$

Example: a = 5cm $Area = 5^{\circ} = 25 \, \text{cm}^{\circ}$



Surface Area = $6 \times a^2$

Example: a = 5cm

Surface Area = 150cm²

Volume = a° or $a \times a \times a$

Example: a = 5 cm.

Volume = 125cm1

lib.

(3)

Area $= w \times h$

Example: height=20cm

w = width = 10cm $Area = 10 \times 20 = 200 cm^3$ E E

Surface Area = $2 \times ba + la$

Example:

ba = base area = 20cm² la = lateral area (all sides) = 60 cm²Surface area = $2 \times 20 + 60 = 100 \text{cm}^2$

 $Volume = ba \times b$

Example:

ba = base area = 20cm² h = height = 5cm $Volume = 20 \times 5 = 100 cm^3$

Area = $b \times h \times 0.5$

Example:

b = base = 20cmh = vertical height = 15cm $Area = 20 \times 15 \times 0.5 = 150cm^2$ Pyramid

Surface Area = ba + la

Example:

ba = base area = 16cm² la = lateral area (all sides) = 60cm²Surface area = 16 + 60 = 76cm³

Volume = $ba \times h \times 1/3$

Example:

ba = base area = 16cm² h = height = 9cm $Volume = 16 \times 9 \times 1/3 = 48cm^{1}$

Reg Polygon

Rectangle

Triangle

Area = $n \times s \times a \times 0.5$

Example:

n = number of sides = 6length of side=5cm a = apotherm = 15cm

 $Area = 6 \times 5 \times 15 \times 0.5 = 225 cm^2$

Polyhedron

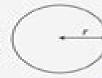
Surface Area = $fa \times s$

Example:

 $fa = area of one side = 200cm^2$ s = number of sides = 12Surface area = $200 \times 12 = 2400$ cm² Example:

There is no simple generic formula for working out the volume of a regular polyhedron.

Circle



Area = $\pi \times r^2$

Examples

n = pi = 3.14r = radius = 5cm

 $Area = 3.14 \times 5^7 = 3.14 \times 5 \times 5 =$ 78.5cm

phere

Surface Area = $4 \times \pi \times r^2$

Example:

r = radius = 4.5cmSurface area = $4 \times 3.14 \times 20.25$ = 254.5 cm* (Approx)

Volume = $4/3 \times \pi \times r^3$

Example:

r = radius = 4.5cmVolume = $4/3 \times 3.14 \times 4.5^{\circ}$ = 381.5cm¹ (Approx)

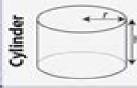
Ellipse

Area = $\pi \times \alpha \times b$

Example:

n = pi = 3.14a = radius of long axis = 6

b = radius short axis = 4 $Area = 3.14 \times 6 \times 4 \times 5 = 75.36cm^2$



Surface Area = $2\pi rh + 2\pi r^{3}$

Example:

r = radius = 5 cmh = height = 10cmSurface area = $2 \times 3.14 \times 5 \times 10$ $+2 \times 3.14 \times 25 = 471$ cm²

Volume = $\pi \times r^2 \times h$

Example:

r = radius = 5cmh = height = 10cm $Volume = 3.14 \times 25 \times 10$ 785cm³ (Approx)

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