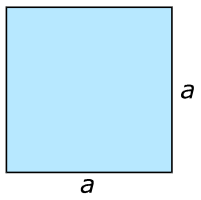
Area, perimeter and volume formulas

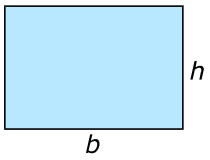
Square



$P = 4a$

$A = a^2$

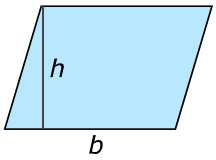
Rectangle



$P = 2b + 2h$

$A = b \cdot h$

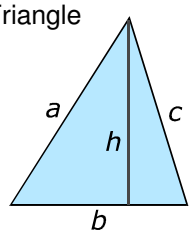
Parallelogram



$P = 2a + 2b$

$A = b \cdot h$

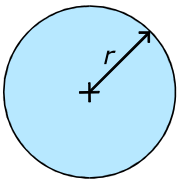
Triangle



$P = a + b + c$

$A = \frac{b \cdot h}{2}$

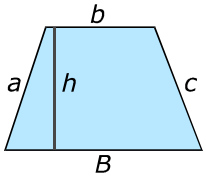
Circle



$P = 2\pi \cdot r$

$A = \pi \cdot r^2$

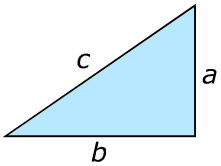
Trapezium



$P = a + b + B + c$

$A = \frac{b + B}{2} \cdot h$

Right triangle



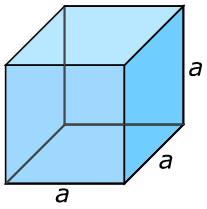
$P = a + b + c$

$A = \frac{b\,a}{2}$

Pythagoras's Theorem:

$a^2 + b^2 = c^2$

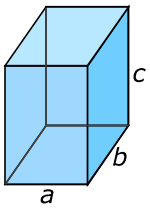
Cube



$A = 6a^2$

$V = a^3$

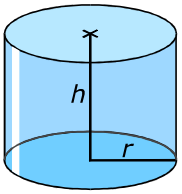
Square prism



$A = 2a \cdot b + 2a \cdot c + 2b \cdot c$

$V = a \cdot b \cdot c$

Cylinder



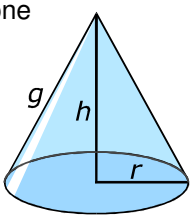
$A_{LATERAL} = 2\pi \cdot r \cdot h$

$A_{BASES} = 2\pi \cdot r^2$

$A_{TOTAL} = 2\pi \cdot r \cdot h + 2\pi \cdot r^2$

$V = \pi \cdot r^2 \cdot h$

Cone



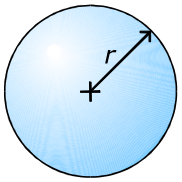
$A_{LATERAL} = \pi \cdot r \cdot g$

$A_{BASE} = \pi \cdot r^2$

$A_{TOTAL} = \pi \cdot r \cdot g + \pi \cdot r^2$

$V = \frac{\pi \cdot r^2 \cdot h}{3}$

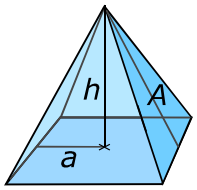
Sphere



$A = 4\pi \cdot r^2$

$V = \frac{4\pi \cdot r^3}{3}$

Square pyramid



$A_{LAT} = \frac{P \cdot A}{2}$

$A_{BASE} = \frac{P \cdot a}{2}$

$A_{TOTAL} = A_{LAT} + A_{BASE}$

$V = \frac{A_{BASE} \cdot h}{3}$

P=Perimeter
A=Area
V=Volume
h=Height