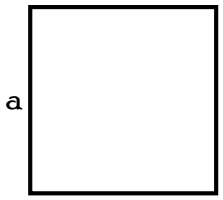
GEOMETRY FORMULAS

SHAPES — perimeter (P) and area (A)

SQUARE

$P = 4a$

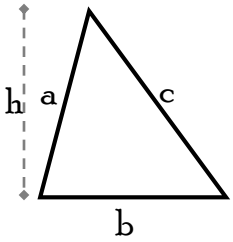
$A = a^2$



TRIANGLE

$P = a+b+c$

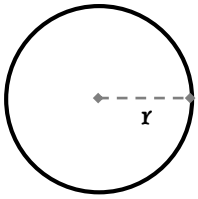
$A = \frac{1}{2}bh$



CIRCLE

$C = 2\pi r$

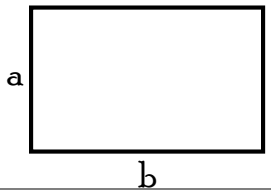
$A = \pi r^2$



RECTANGLE

$P = 2a+2b$

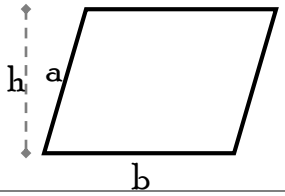
$A = ab$



PARALLELOGRAM

$P = 2a+2b$

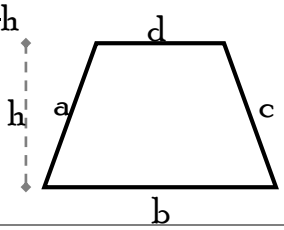
$A = bh$



TRAPEZOID

$P = a+b+c+d$

$A = \frac{b+d}{2}h$

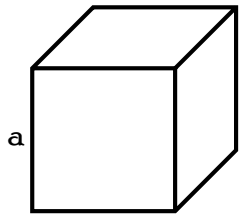


SOLIDS — surface area (SA) and volume (V)

CUBE

$SA = 6a^2$

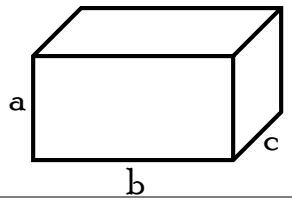
$V = a^3$



RECTANGULAR PRISM

$SA = 2ab+2ac+2bc$

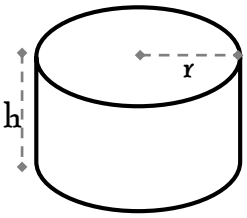
$V = abc$



CYLINDER

$SA = 2\pi r(r+h)$

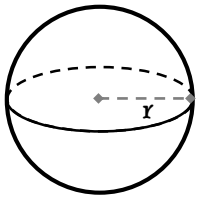
$V = \pi r^2 h$



SPHERE

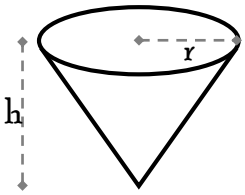
$SA = 4\pi r^2$

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



CONE

$V = \frac{1}{3}\pi r^2 h$



RECTANGULAR PYRAMID

$V = \frac{1}{3}abh$