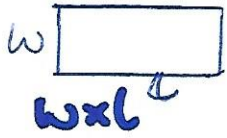


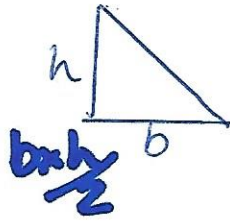
FORMULAS

AREA / SURFACE AREA / VOLUME

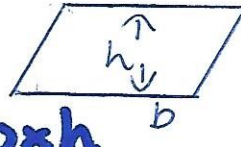
AREA



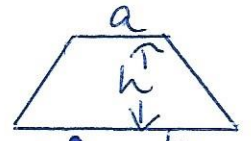
$$w \times l$$



$$\frac{b \times h}{2}$$

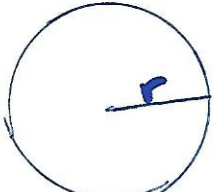


$$b \times h$$

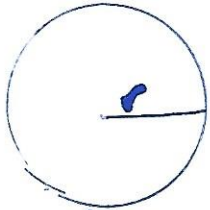


$$\frac{(a+b) \times h}{2}$$

CIRCLES



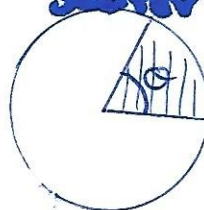
$$\text{Area} = \pi r^2$$



$$\text{Circumference} = 2\pi r$$

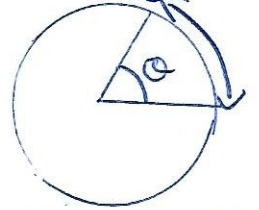
or πd

Area of a sector



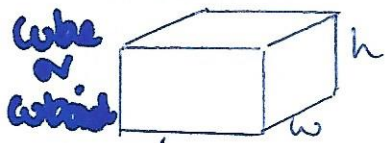
$$\frac{\theta}{360} \times \pi r^2$$

Arc length

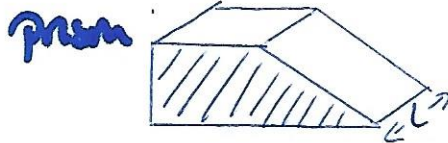


$$\frac{\theta}{360} \times 2\pi r$$

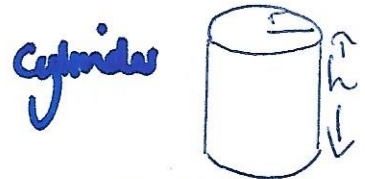
VOLUMES



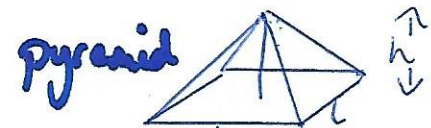
$$l \times w \times h$$



$$\text{x-sectional area} \times L$$



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



$$\frac{1}{3} \text{base area} \times h$$



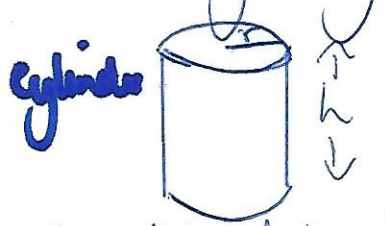
$$\frac{1}{3} \pi r^2 h$$



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

SURFACE AREAS

Area of every face in a cube, a cuboid and a pyramid



Area of base & top πr^2
 Curved surface area $\pi r h$



Area of base πr^2
 Curved area $\pi r L$



$$\text{Surface Area} = 4\pi r^2$$

[note if given h & r
 use pythagoras to
 find L]