No.: Date:

Mensuration

Rectangle : area = $l \times b$, perimeter = $2(l+b)$

Trapezium : area = $\frac{1}{2} \times (a+b) \times h$

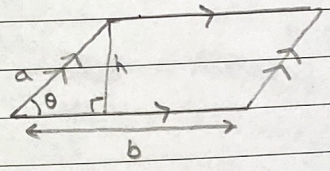
Kite : $\frac{1}{2}$ x (product of diagonals)

Triangle : area = $\frac{1}{2} \times b \times h$, perimeter = $a+b+c$

Parallelogram : area = $b \times h$

$= ba \sin\theta$

: perimeter = $2(a+b)$



Circle : circumference = $2\pi r$

area = πr^2

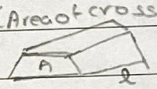
Arc length, $l = \frac{\theta}{360} \times 2\pi r$

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

prism : TSA = (perimeter of crossection) x l + 2 (Area of crossection)

prism : volume = $A \times l$

= Area of crossection x l



cylinder : volume = $\pi r^2 h$

Pyramid : volume = $\frac{1}{3}$ (base area) x height

cone : volume = $\frac{1}{3} \pi r^2 h$

sphere : Volume = $\frac{4}{3} \pi r^3$, Hemisphere : volume = $\frac{2}{3} \pi r^3$

cylinder : curved surface area = $2\pi rh$

sphere : surface area = $4\pi r^2$

cone : csa = πrl

cuboid : surface area = $2(lb + bh + lh)$

Frustum : $\frac{\pi}{3} h (R^2 + r^2 + Rr)$ ← volume