

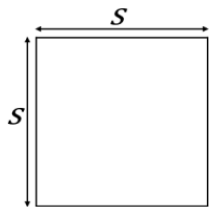
# GEOMETRY

## SHAPES AND SOLIDS

### SQUARE

$$P = 4s$$

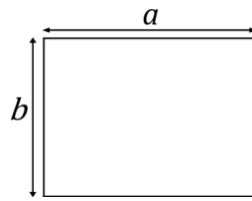
$$A = s^2$$



### RECTANGLE

$$P = 2a + 2b$$

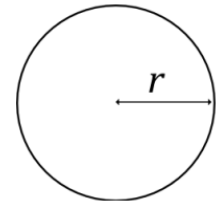
$$A = ab$$



### CIRCLE

$$P = 2\pi r$$

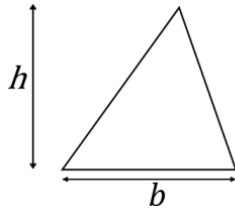
$$A = \pi r^2$$



### TRIANGLE

$$P = a + b + c$$

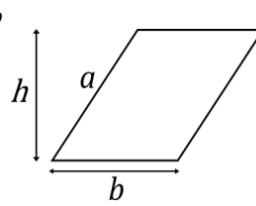
$$A = \frac{1}{2}bh$$



### PARALLELOGRAM

$$P = 2a + 2b$$

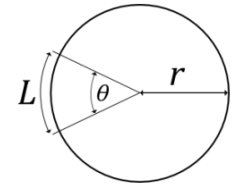
$$A = bh$$



### CIRCULAR SECTOR

$$L = \pi r \frac{\theta}{180^\circ}$$

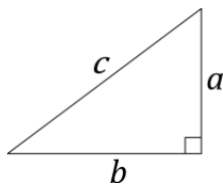
$$A = \pi r^2 \frac{\theta}{360^\circ}$$



### PYTHAGOREAN THEOREM

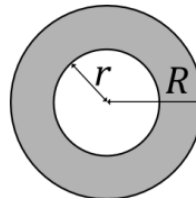
$$a^2 + b^2 = c^2$$

$$c = \sqrt{a^2 + b^2}$$



### CIRCULAR RING

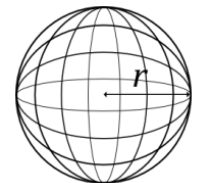
$$A = \pi(R^2 - r^2)$$



### SPHERE

$$S = 4\pi r^2$$

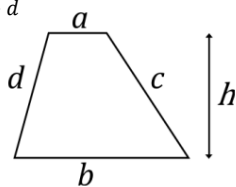
$$V = \frac{4\pi r^3}{3}$$



### TRAPEZOID

$$P = a + b + c + d$$

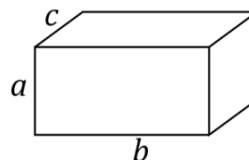
$$A = h \frac{a+b}{2}$$



### RECTANGULAR BOX

$$A = 2ab + 2ac + 2bc$$

$$V = abc$$

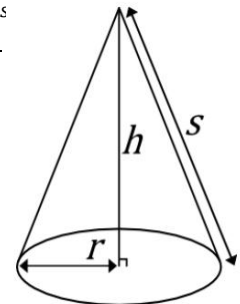


### RIGHT CIRCULAR CONE

$$A = \pi r^2 + \pi r s$$

$$s = \sqrt{r^2 + h^2}$$

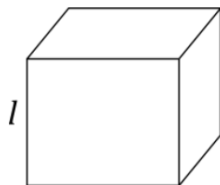
$$V = \frac{1}{3} \pi r^2 h$$



### CUBE

$$A = 6l^2$$

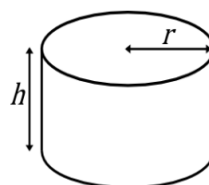
$$V = l^3$$



### CYLINDER

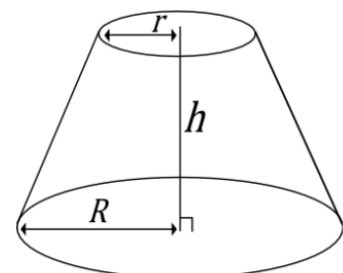
$$A = 2\pi r(r + h)$$

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



### FRUSTUM OF A CONE

$$V = \frac{1}{3} \pi h (r^2 + rR + R^2)$$



## MATHS REFERENCE SHEET COLLECTION

A reference sheet for the  
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senior maths program

General Mathematics  
Mathematical Applications  
Mathematical Methods  
Specialist Mathematics

