

### 3. Applications of Maths in Daily Life.

Simple Interest,  $I = \frac{PRT}{100}$   
 compound Interest: Work out yr by yr.  
 use new P for next calculation.  
 $P_{new} = P + I$ ,  $compd I + P = P(1 + \frac{R}{100})^T$   
 includes Principle.

- Other topics:
- hire-purchase / instalments
  - \$ exchange
  - profit & loss
  - taxation.

### 3. Speed - Time Graph.

- gradient = acceleration
  - area = distance
- distance - Time graph  
 gradient = speed.

### 3. Congruence

Proofs for  $\Delta s$ : RHS, SSS, SAS, AAS.

#### Similarity.

- all corr.  $\angle$ s are equal
- ratio of all corr.  $\angle$  sides are =
- scale factor =  $\frac{\text{new length}}{\text{old length}}$ .
- same idea for maps.

### b. Geometry (Polygons)

- sum of all exterior  $\angle s = 360^\circ$
- ext  $\angle$  + int  $\angle = 180^\circ$
- sum of all interior  $\angle s = (n-2) \times 180^\circ$

#### Circle Properties

$\Delta$  in semi- $\odot$ ,  $\angle s$  in same segment  
 rad  $\perp$  to chd.  $\angle$  at c =  $2 \times \angle$  at O  
 $a + b = 180^\circ$   
 opp  $\angle s$  of cycl. quad.  
 equal chords are equidistant from centre.

### 7. Trigonometry

$o^2 + a^2 = h^2$   
 $\tan x = \frac{o}{a}$   
 $\cos x = \frac{a}{h}$   
 $\sin x = \frac{o}{h}$

**Sine Rule**  
 (find sides: put sides on top)  
 $\frac{b}{\sin B} = \frac{a}{\sin A}$

**cosine rule**  
 (find  $\angle$ : put  $\angle$  on top)  
 $\frac{\sin A}{a} = \frac{\sin B}{b}$

**(I) find  $\angle$  given 3 sides**  
 sides a, b, c  
 $c^2 = a^2 + b^2 - 2ab \cos x$  or  
 $\cos x = \frac{a^2 + b^2 - c^2}{2ab}$

**(II) find side given 2 sides + 1 included  $\angle$**   
 sides a, b,  $\angle C$   
 $x^2 = a^2 + b^2 - 2ab \cos C$

Area of  $\Delta = \frac{1}{2} ab \sin C$

### 8. Mensuration

**Cone**  

 Vol =  $\frac{1}{3} \pi r^2 h$   
 Area =  $\pi r^2 + \pi r l$

**Sphere**  

 Vol =  $\frac{4}{3} \pi r^3$   
 S. Area =  $4 \pi r^2$

**Sector**  

 Area =  $\frac{x}{360} \times \pi r^2$   
 OR  
 Area =  $\frac{1}{2} r^2 \theta$   
 (if  $x$  is  $\theta$  rad)

**Pyramid**  

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

**Cylinder**  

 Vol =  $\pi r^2 h$   
 S. Area =  $2 \pi r^2 + 2 \pi r h$

**Arc Length (s)**  
 $s = \frac{x}{360} \times 2 \pi r$   
 OR  
 $s = r \theta$   
 ( $\theta = \angle$  in rad)

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**Thomas Griffiths**



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