

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 Δs : RHS, SSS, SAS, AAS.

Similarity.

- all corr. \angle s are equal
- ratio of all corr. 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

Δ in semi-c, $\angle s$ in same segment
 rad \perp 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

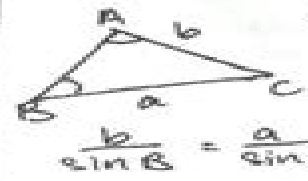


$$o^2 + a^2 = h^2$$

$$\tan x = \frac{o}{a}$$

$$\cos x = \frac{a}{h}$$

$$\sin x = \frac{o}{h}$$



$$\frac{b}{\sin B} = \frac{a}{\sin A}$$

$$\frac{\sin A}{a} = \frac{\sin B}{b}$$

Sine Rule
 (find sides: put sides on top)

cosine rule
 (find \angle : put \angle on top)



find \angle given 3 sides
 sides a, b, c

$$c^2 = a^2 + b^2 - 2ab \cos x$$

$$\cos x = \frac{a^2 + b^2 - c^2}{2ab}$$

(II) find side given 2 sides + 1 included \angle

$$x^2 = a^2 + b^2 - 2ab \cos C$$

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

8. Mensuration

Cone

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

Pyramid

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

Sphere

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

Cylinder

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

Sector

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

Arc Length (s)

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

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May Ling Soon



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Table of Contents O Level Maths Notes Pdf Wordpress

1. Understanding the eBook O Level Maths Notes Pdf Wordpress
 - The Rise of Digital Reading O Level Maths Notes Pdf Wordpress
 - Advantages of eBooks Over Traditional Books
2. Identifying O Level Maths Notes Pdf Wordpress
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an O Level Maths Notes Pdf Wordpress
 - User-Friendly Interface
4. Exploring eBook Recommendations from O Level Maths Notes Pdf Wordpress
 - Personalized Recommendations
 - O Level Maths Notes Pdf Wordpress User Reviews and Ratings
 - O Level Maths Notes Pdf Wordpress and Bestseller Lists
5. Accessing O Level Maths Notes Pdf Wordpress Free and Paid eBooks
 - O Level Maths Notes Pdf Wordpress Public Domain eBooks
 - O Level Maths Notes Pdf Wordpress eBook Subscription Services
 - O Level Maths Notes Pdf Wordpress Budget-Friendly Options
6. Navigating O Level Maths Notes Pdf Wordpress eBook Formats
 - ePub, PDF, MOBI, and More
 - O Level Maths Notes Pdf Wordpress Compatibility with Devices
 - O Level Maths Notes Pdf Wordpress Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of O Level Maths Notes Pdf Wordpress
 - Highlighting and Note-Taking O Level Maths Notes Pdf Wordpress
 - Interactive Elements O Level Maths Notes Pdf Wordpress

8. Staying Engaged with O Level Maths Notes Pdf Wordpress
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers O Level Maths Notes Pdf Wordpress
9. Balancing eBooks and Physical Books O Level Maths Notes Pdf Wordpress
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection O Level Maths Notes Pdf Wordpress
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine O Level Maths Notes Pdf Wordpress
 - Setting Reading Goals O Level Maths Notes Pdf Wordpress
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of O Level Maths Notes Pdf Wordpress
 - Fact-Checking eBook Content of O Level Maths Notes Pdf Wordpress
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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