

MATHEMATICAL FORMULAE

Compound Interest

$$\text{Total Amount} = P\left(1 + \frac{r}{100}\right)^n$$

Mensuration

$$\text{Curved surface area of a cone} = \pi rl$$

$$\text{Surface area of a sphere} = 4\pi r^2$$

$$\text{Volume of a cone} = \frac{1}{3}\pi r^2 h$$

$$\text{Volume of a sphere} = \frac{4}{3}\pi r^3$$

$$\text{Area of triangle ABC} = \frac{1}{2}ab \sin C$$

$$\text{Arc length} = r\theta, \text{ where } \theta \text{ is in radians}$$

$$\text{Sector area} = \frac{1}{2}r^2\theta, \text{ where } \theta \text{ is in radians}$$

Trigonometry

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

$$a^2 = b^2 + c^2 - 2bc \cos A$$

Statistics

$$\text{Mean} = \frac{\sum fx}{\sum f}$$

$$\text{Standard Deviation} = \sqrt{\frac{\sum fx^2}{\sum f} - \left(\frac{\sum fx}{\sum f}\right)^2}$$

E Maths O Level Mock Paper 2023

1	[Algebra]	
(a)	Solve the inequality $\frac{3x+1}{4} < 1 + \frac{2x+1}{3}$.	[2]
(b)	Express as a single fraction in its simplest form $\frac{3x}{x-12} - \frac{2}{12x-12^2}$.	[2]
(c)	Simplify $\frac{1-xy^2}{xy^2} + \frac{xy^2}{xy^2}$.	[2]
(d)	Simplify $\left(\frac{20x^2y}{3x^2y}\right)^{-\frac{1}{2}}$.	[2]
(e)	Solve the equation $\frac{2x}{x^2-9} = \frac{3}{x+3} + 1$.	[2]
2	[HCF & LCM]	
	Written as a product of its prime factors, 264 = $2^3 \times 3 \times 11$ and 1980 = $2^2 \times 3^2 \times 5 \times 11$.	
(a)	1980 is a perfect cube. Find the smallest possible value of k, leaving your answer in index notation.	[2]
	The highest common factor and the lowest common multiple of 264, 1980 and k are 12 and 9900 respectively.	
(b)	Find the largest possible value of k.	[2]
3	[Maps and Scale]	
	A map of Thailand has a scale of 1 : 500 000.	
(a)	The length of the river Kwai on the map is 75 cm. Calculate the actual length, in kilometres, of the river Kwai.	[2]
(b)	The area of Thailand is 511 120 km ² . Calculate the area, in square centimetres, of Thailand on the map. Leave your answer in standard form, correct to 4 significant figures.	[2]
4	[Proportions]	
(a)	The radius of the base of a cylinder was increased by 30% and its height was decreased by 30%. Find the percentage change, if any, in its volume.	[2]
(b)	It is given that y is inversely proportional to x ² . Find the percentage decrease in y when x is increased by 150%.	[2]

Emaths Paper

Kathleen Armour

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Emaths Paper :

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