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Mathematics A

Paper 1 (Non-Calculator)

Higher Tier

Mock Paper

Time: 1 hour 45 minutes

Mock reference

1MA0/1H

Use these items

Ruler graduated in centimetres and millimetres, protractor (not at compasses), pair of compasses, pencil, eraser. Tracing paper may be used.

Area Blank

Instructions

- Use **black ink** on a ball-point pen.
- **Fill in the boxes** at the top of this page with your centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided.
– there may be more space than you need.
- **Calculators must not be used.**



Information

- The total mark for this paper is 100.
- The marks for **each** question are shown in brackets.
– use this as a guide as to how much time to spend on each question.
- Questions labelled with an **asterisk (*)** are ones where the quality of your written communication will be assessed.
– you should take particular care on these questions with your spelling, punctuation and grammar, as well as the clarity of your response.

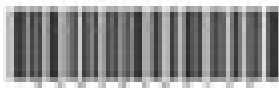
Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end.

Turn on

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GCSE Mathematics 1MA0

Formulae – Higher Tier

You must not write on this formulae page.
Anything you write on this formulae page will gain 0% credit.

Volume of a prism = area of cross-section $\times$ length



Area of trapezium = $\frac{1}{2}(a+b)h$



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

Surface area of sphere = $4\pi r^2$



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

Curved surface area of cone = $\pi r l$



In any triangle ABC



The Quadratic Equation

The solutions of $ax^2 + bx + c = 0$

where $a \neq 0$, are given by

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

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

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

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



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