

Please write clearly in block capitals.						
Centre number	Candidate number					
Surname						
Forename(s)						
Candidate signature						

GCSE MATHEMATICS

Higher Tier

Paper 1 Non-Calculator

Thursday 25 May 2017

Morning

Time allowed: 1 hour 30 minutes

Materials

For this paper you must have:

mathematical instruments.

You must **not** use a calculator.

Instructions

- Use black ink or black ball-point pen. Draw diagrams in pencil.
- Answer all questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- Do all rough work in this book. Cross through any work you do not want to be marked.

Information

- The marks for questions are shown in brackets.
- The maximum mark for this paper is 80.
- You may ask for more answer paper, graph paper and tracing paper. These must be tagged securely to this answer book.

Advice

• In all calculations, show clearly how you work out your answer.







Please note that these worked solutions have neither been provided nor approved by AQA and may not necessarily constitute the only possible solutions. Please refer to the original mark schemes for full guidance.

Any writing in blue indicates what must be written in order to answer the questions and get the marks. The worked solutions have been designed to show the smallest amount of work which needs to be done to answer the question.

Anything written in green in a cloud doesn't have to be written in the exam.

Anything written in orange in a rectangle doesn't have to be written in the exam and is there to show what should be put into a calculator or measured using a ruler or protractor.

If you find any mistakes or have any requests or suggestions, please send an email to curtis@cgmaths.co.uk







































10	Solve the simultaneous equations.	
D+	2x + y = 18 $x - y = 6$ $(8+6)$ $3x = 24$	[3 marks]
(2) (2)	$x = 8,$ $x = \frac{24}{3}$ $x = \frac{24}{3}$	
	$\frac{16 + 9 = 18}{9 = 7}$	
	(16 + 2 = 18)	
	Answer $X = 8$, $y = 2$	_
	Turn over for the next question	
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11	Billy wants to buy these tickets for a show. 4 adult tickets at £15 each 2 child tickets at £10 each
	A 10% booking fee is added to the ticket price. 3% is then added for paying by credit card.
	Work out the total charge for these tickets when paying by credit card. [5 marks]
	$4 \times 15 + 2 \times 10 = 60 + 20 = 80$
	$\frac{80 \div 10 \pm 8}{80 + 8 - 88}$
	$\frac{88 \div 100}{(88 \div 100)} \times 3 = 0.88 \times 3 = 2.64$
	88+2.64
	$\frac{\bigcirc \cdot \delta 0}{\times 3}$
	2.64
	Answer £
	https://youtu.be/ibGT8CkJFHI











Turn over ►



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Do not write outside the box









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IB/M/Jun17/8300/1H





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https://youtu.be/cYJWIs9x1Ww

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IB/M/Jun17/8300/1H



https://youtu.be/r1Ot07h70y0

Turn over for the next question



























26	Expand and simplify $(x-4)(2x+3y)^2$	[4 marks]
	$(5C - 4)(45C^{2} + 12xy + 9y^{2})$ Expand out the square bracket first using 'square the first term, double th of the two terms, square the last term'. Then expand out with the first b	e product pracket.
	Answer $4x^3 + 12x^2y + 9xy^2 - 16x^2 - 48xy - 36$	<u> </u>
	https://youtu.be/eJYo9We1zuU	





















