AQA



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

GCSE MATHEMATICS

Foundation Tier

Paper 1 Non-Calculator

Tuesday 21 May 2019

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.
- Fill in the boxes at the top of this page.
- Answer all guestions.
- 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.





IB/M/Jun19/E9



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















	Do not write outside the box
Amy and Brad each have some money.	
Carly has no money.	
Amy gives £7 to Carly.	
Brad gives £5 to Carly.	
Now they all have the same amount of money.	
How much money did Amy have to begin with? [2 marks]	
7 + .5 + 7 Carly started with £0 so the £7 from Amy add the £5	
<pre>from Brad works out how much money she now has.</pre>	
As they now all have the same amount of money, Amy $\frac{1}{2}$	
2 also has $E7 + E5$ but started with $E7$ more so another $2E7$ has to be added to get what she started with 2	
Answer £ 9	
Turn over for the next question	
	4
Turn over ▶	•

















10 10 (a)	Coaches take people to a festival. Each coach can take 50 people. From one city there are 820 people. How many coaches are needed? 16 16 lots of 50 go into 820 with a remainder so another coach will be needed for the remaining people	<pre> Do not write outside the box </pre>
	Answer17	





10 (b)	From a different city 13 coaches are needed. Each coach costs £450 to hire.	outside the box
	Work out the total cost of hiring 13 coaches.	
	[3 marks]	
	450	
	<u> </u>	
	<u> </u>	
	Answer $c \leq 850$	
	Turn over for the next question	
		6
	Turn over ►	

















14	Here is a cuboid.	Do not write outside the box
	10 cm 7 cm	
	Work out the volume. [2 marks]	
	$7 \times 5 \times 10$ (Volume of cuboid = length x width x height)	
	Answer 350 cm ³	
15	Circle the shape that has a uniform cross section. [1 mark]	
	cone sphere cylinder pyramid	
		7
	i urn over 🕨	











16

17 (a) Simplify fully 56 : 24 [2 marks] To simplify a ratio, divide both sides by the same amount. 56/8 = 7 and 24/8 = 3. Both 7 and 3 can't be divided by the same amount any further لمعر \mathcal{L} 、 Answer _____ : ____ 3 17 (b) Write the ratio 5:4 in the form n:1[1 mark] 4 has been divided by 4 to get 1 so the 5 needs to be divided by 4 as well. There is no need to convert it into a decimal **X X X X** <u>5</u> <u>4</u> Answer 17 (c) Share £180 in the ratio 1:9 [2 marks] There is £180 in total and 10 parts in total in the ratio. Dividing 180 by 10 works out what 1 part is worth. 180/10 = 18. Multiplying this by 9 works out what 9 parts are worth X X 18 9 × Answer £ 18 and £ 162





Do not write outside the box

[3 marks]

17 18 Here is some data about the people listening to a radio station one day. Range of Mean number of Percentage number of hours listening hours listening Aged 40 or under 21 1.2 4.5 Aged 41 or over 79 6.3 13.9 Compare the data for people aged 40 or under with the data for people aged 41 or over. Make three comparisons. Comparison 1 Aged 41 or over had a higher percentage Comparison 2 Aged 41 or over had a higher mean

Comparison 3 Aged 41 or over had a higher range

Turn over for the next question















Turn over for the next question





22	Three friends arrive at a party.	
	In total, how many people are now at the party by 20% 3 × 6 20% of the people is 3. As it has increased by 20%, the number of people is now at 120%. Multiplying 20% by 6 gives 120% so 3 is also multiplied by 6 to find out how many people there are [2 m	
	Answer	
		_





















