AQA



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

GCSE MATHEMATICS

Higher Tier

Paper 1 Non-Calculator

Tuesday 5 November 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

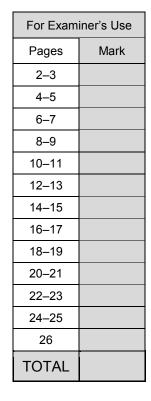
- The marks for questions are shown in brackets.
- The maximum mark for this paper is 80.
- You may ask for more answer paper, graph paper and tracing paper. These must be tagged securely to this answer book.

Advice

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









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.

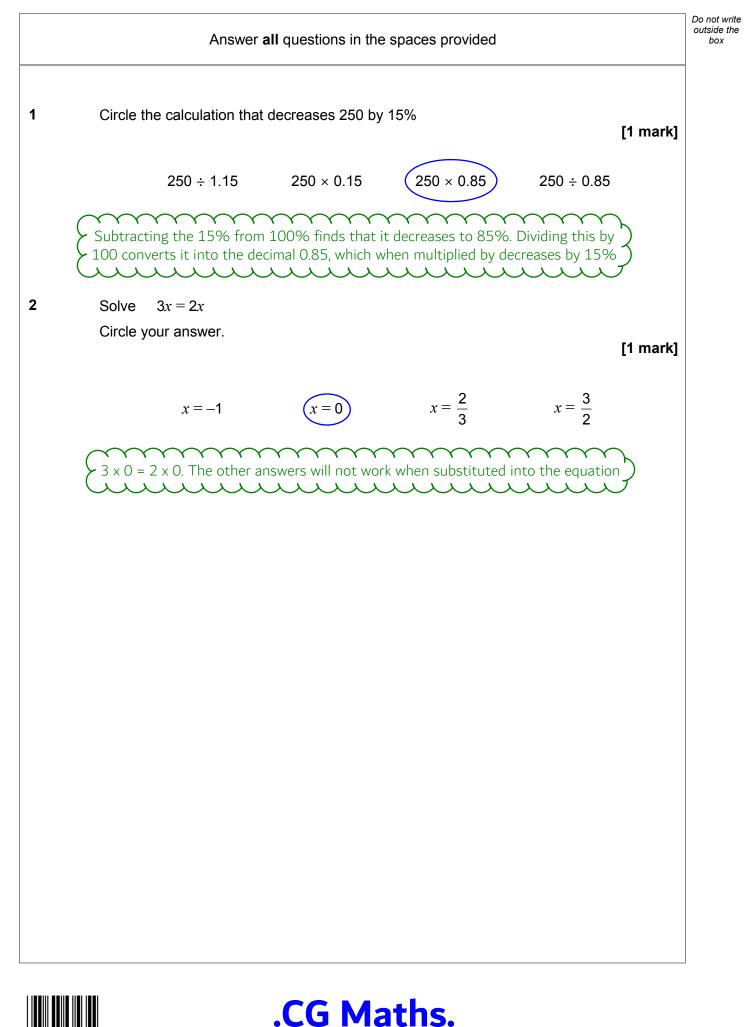
Any writing in blue indicates what must be written in order to answer the questions and get the marks. The worked solutions have been designed to show the smallest amount of work which needs to be done to answer the question.

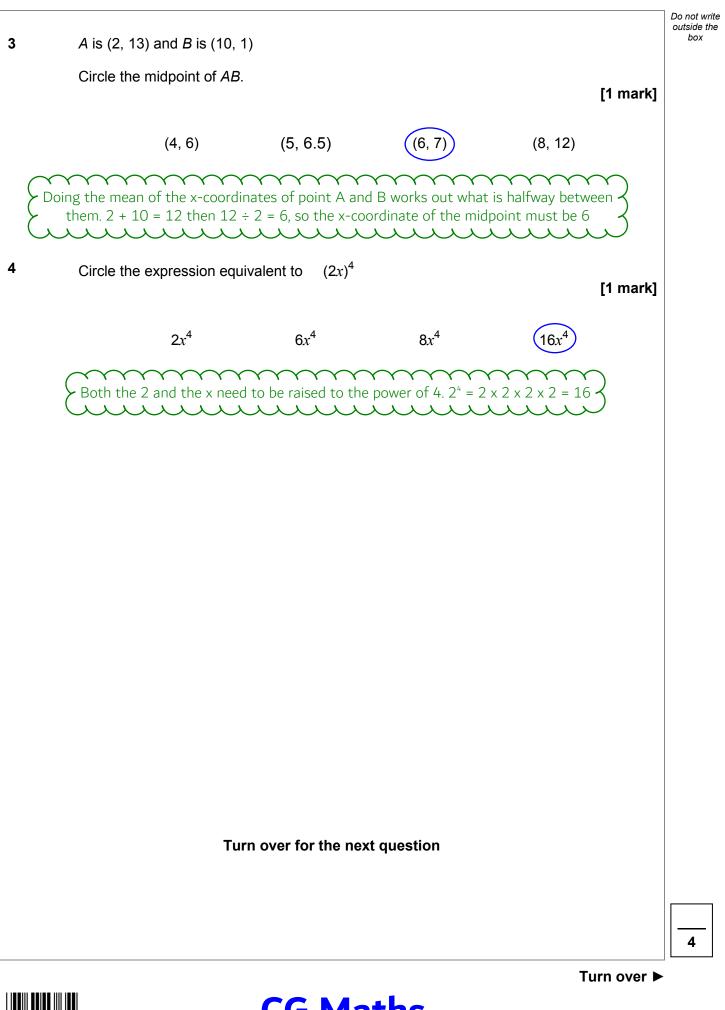
Anything written in green in a cloud doesn't have to be written in the exam.

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

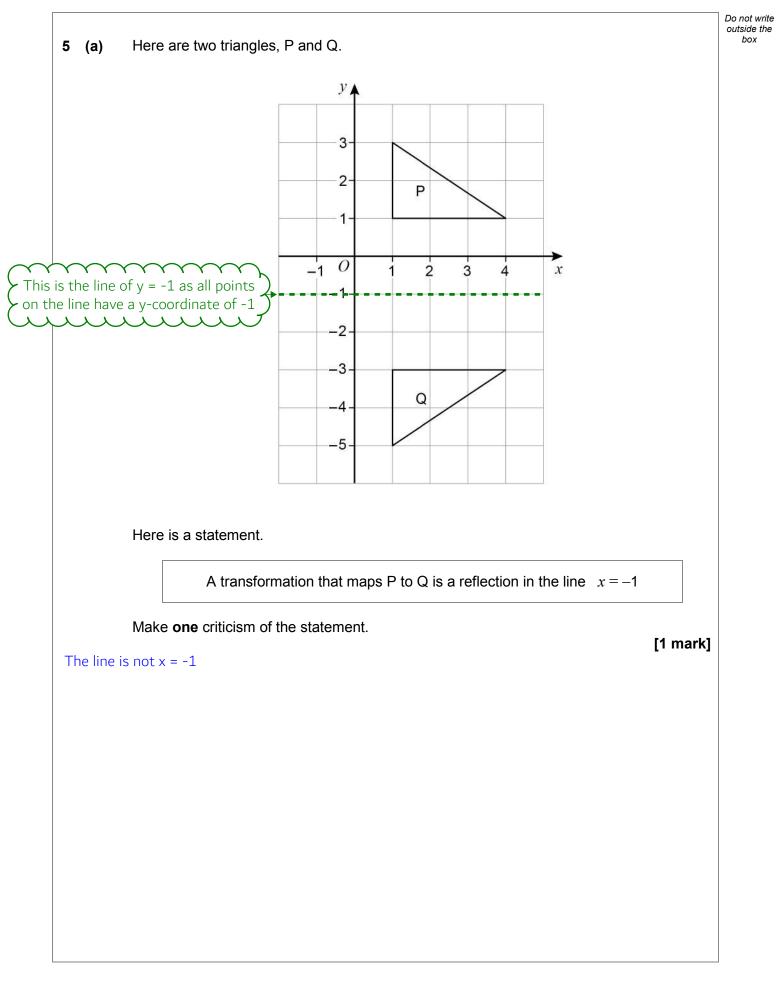






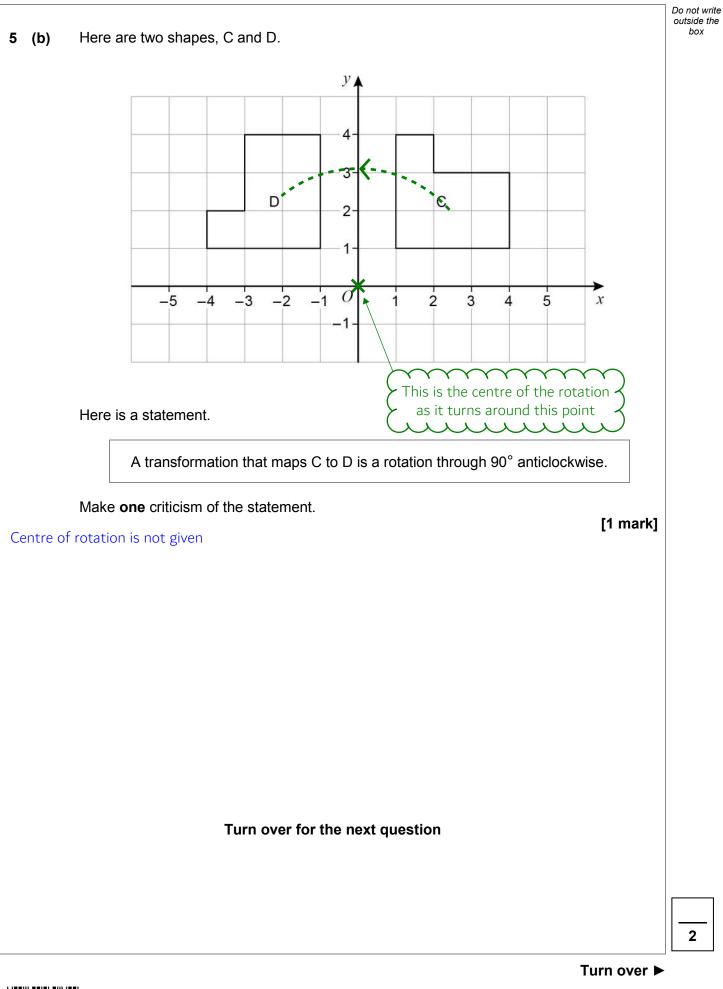






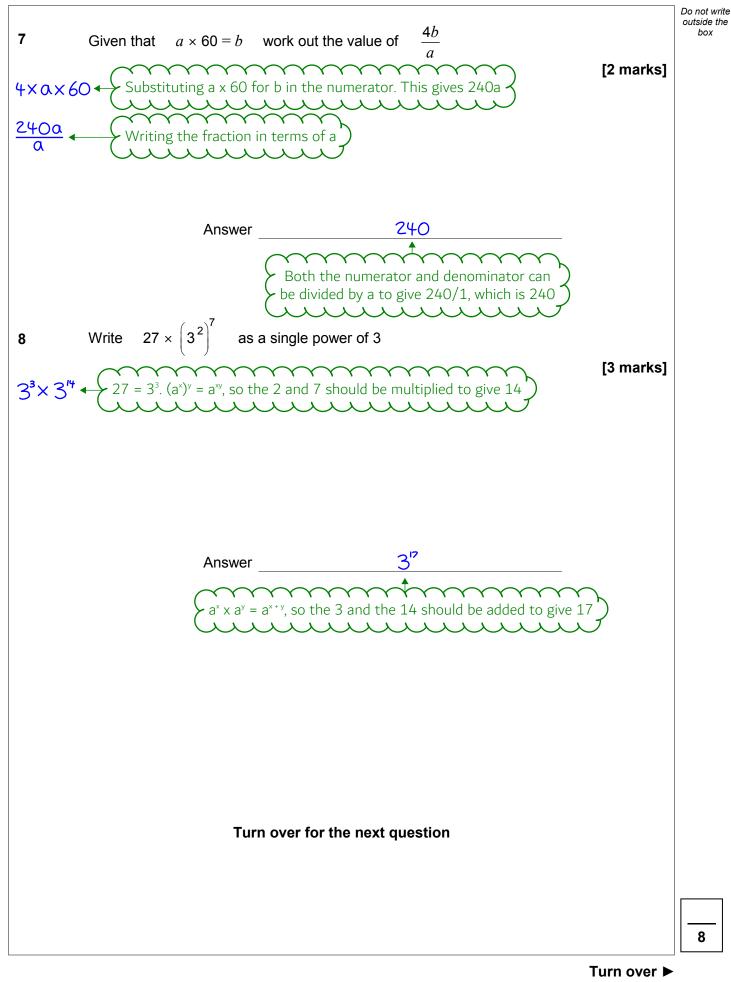






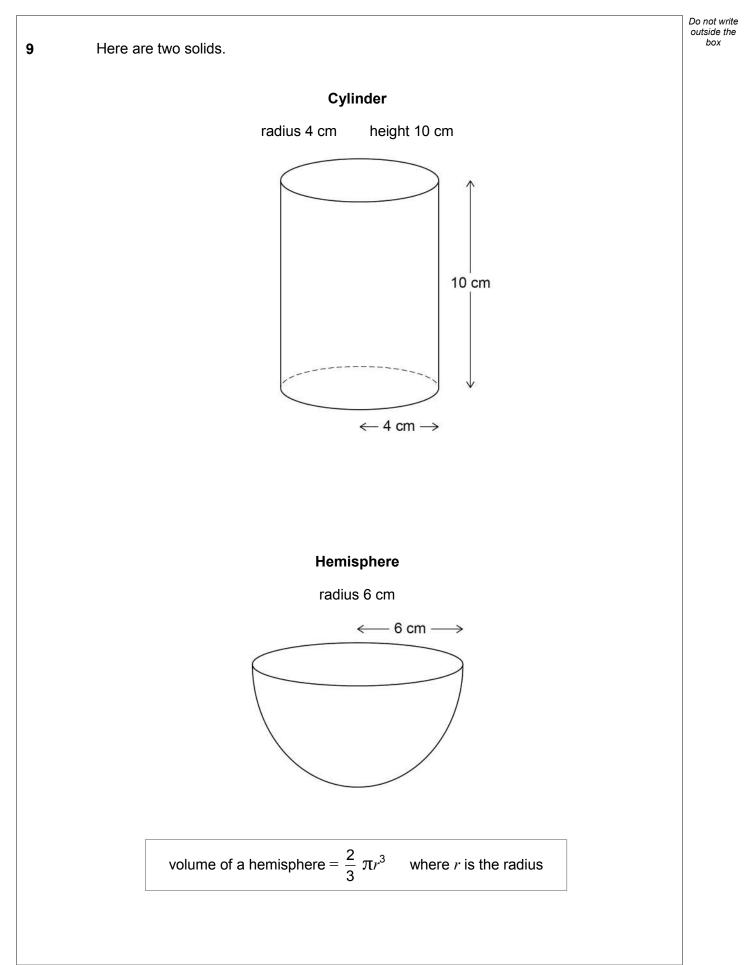


6 (a)	A geometric progression starts 4 16	Do not write outside the box
	Work out the next term.	[1 mark]
16 <u>×4</u> 6⁄4	Geometric sequences multiply by the same amount between each term. 4 has be multiplied by 4 to get 16 so the 16 must be multiplied by 4 to get the next term	en
	Answer <u>64</u>	
6 (b)	A Fibonacci-type sequence starts 3 –8	
0 (D)	The sequence is continued by adding the previous two terms.	
	Work out the next two terms.	[2 marks]
	Answer -5 and -13 3 + -8 = -5 -8 + -5 = -13	
	.CG Maths.	Л/Nov19/8300/1Н

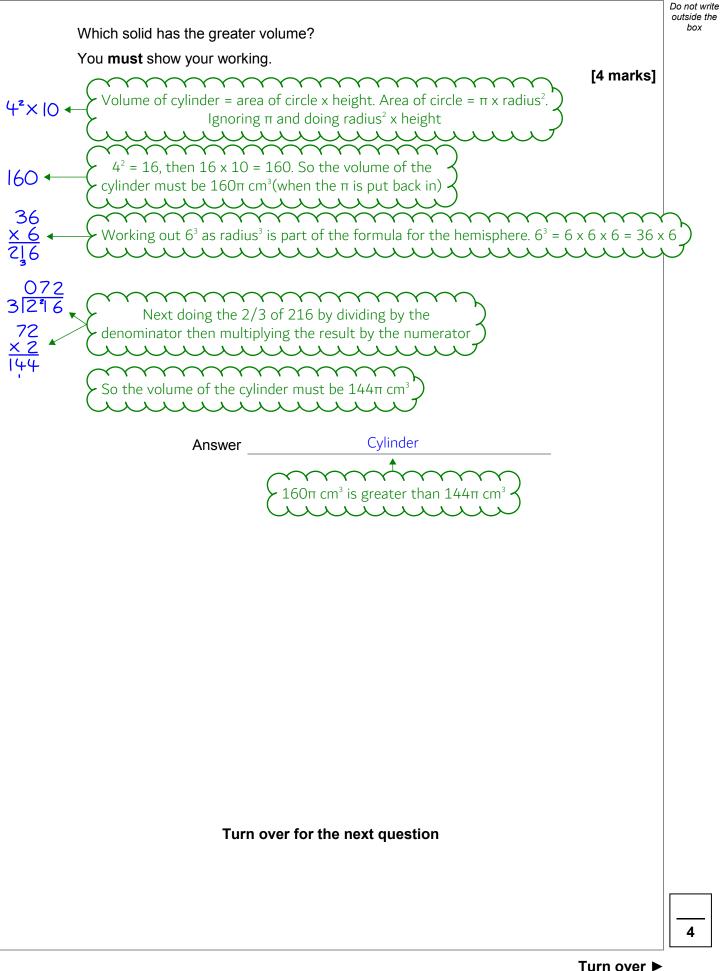






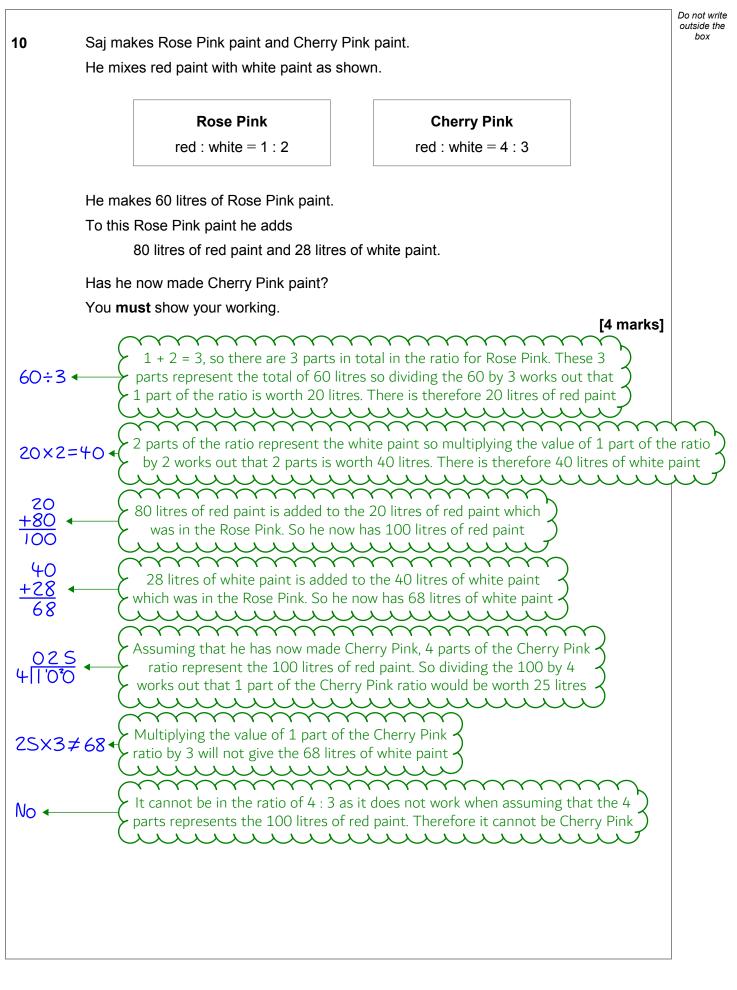




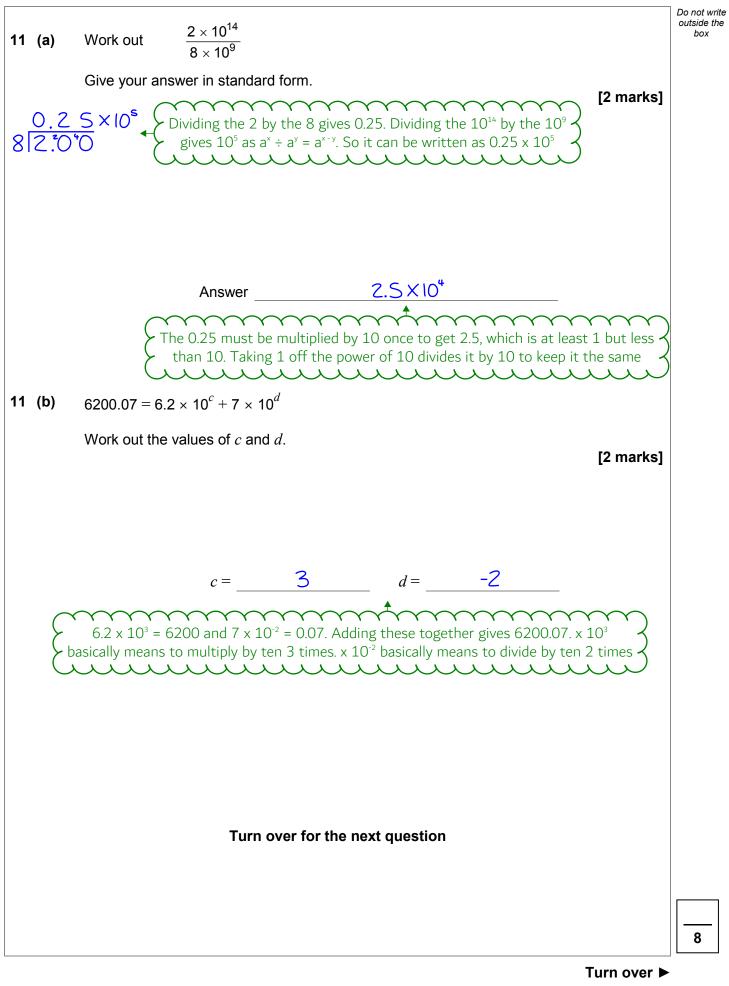














12

$$V = \frac{k}{H}$$
 where k is a constant.

 Which two statements are correct?

 Tick two boxes.

 [1 mark]

 V is directly proportional to H
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