AQA Model Solutions

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

GCSE MATHEMATICS

Foundation 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.

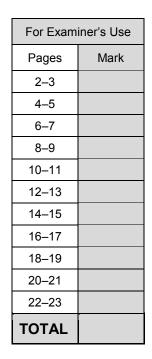
Information

- 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.

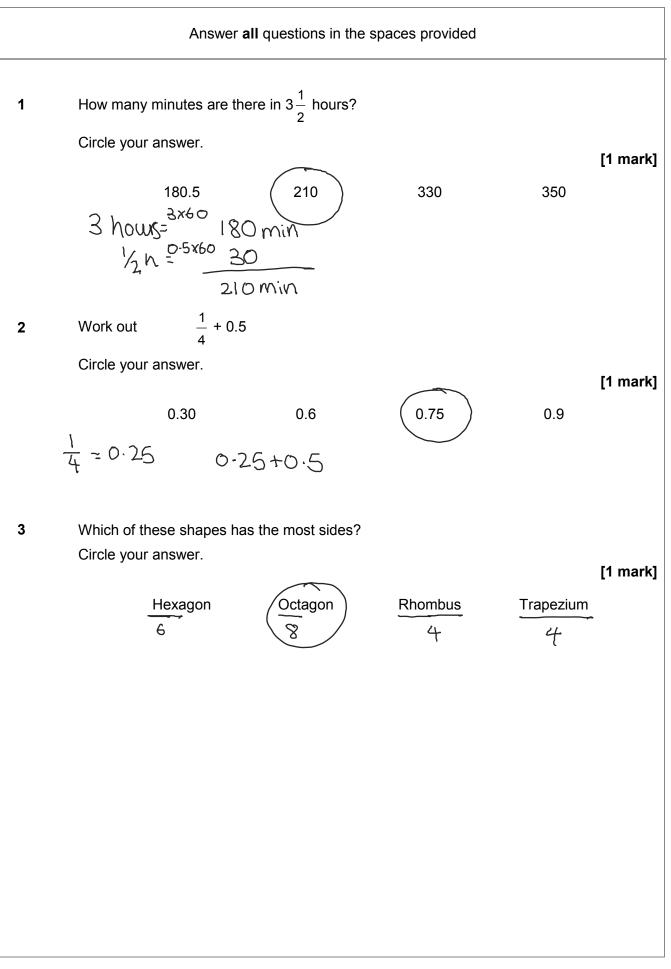
Advice

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





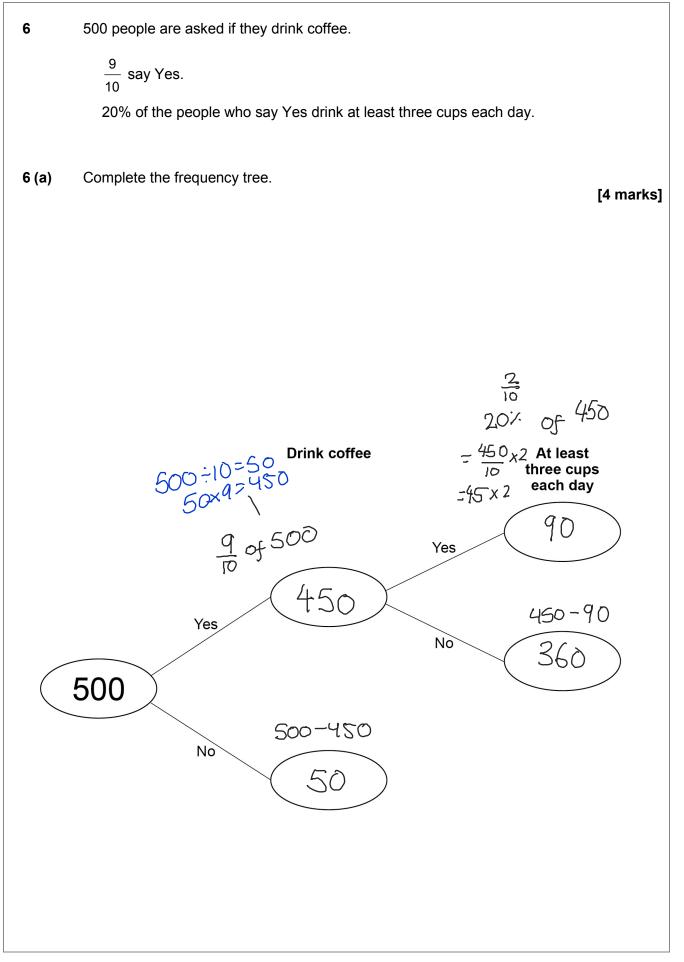




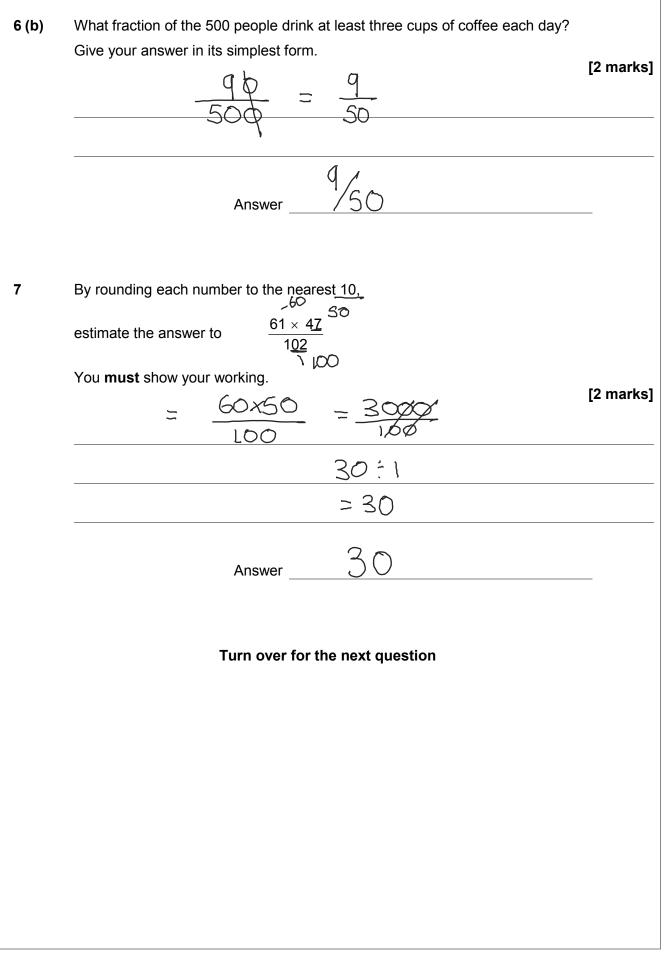


4	Solve Circle you	x − 3 = 0 +3 r answer.	ar 3		
				4	[1 mark]
		<i>x</i> = –3	<i>x</i> = 0	$x = \frac{1}{3}$	x = 3
5	Work out	58 × 73			
		,73 x 5 8)) ?		[3 marks]
		× 58 58 3,6,50 423	4		
		3,6,50	$\overset{1}{\circ}$ +		
		423	4		
		A	nswer 4	234	
					Turn over ►



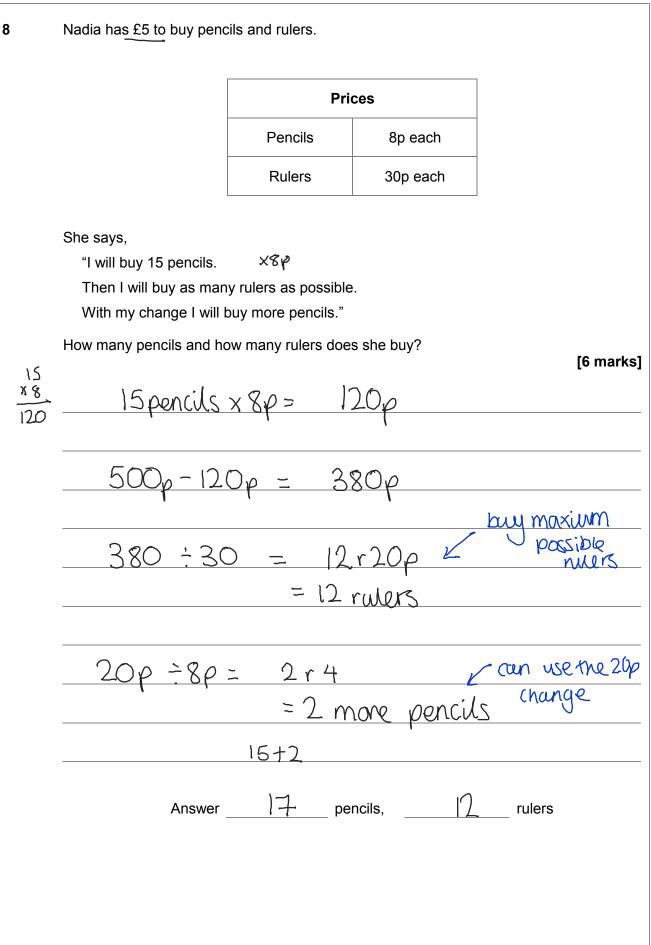




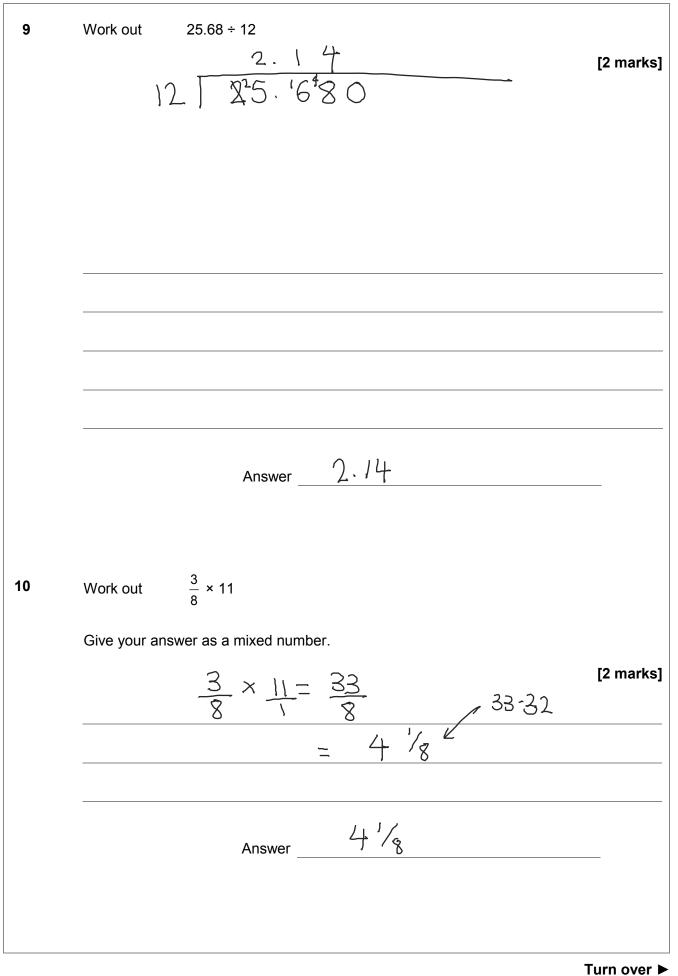




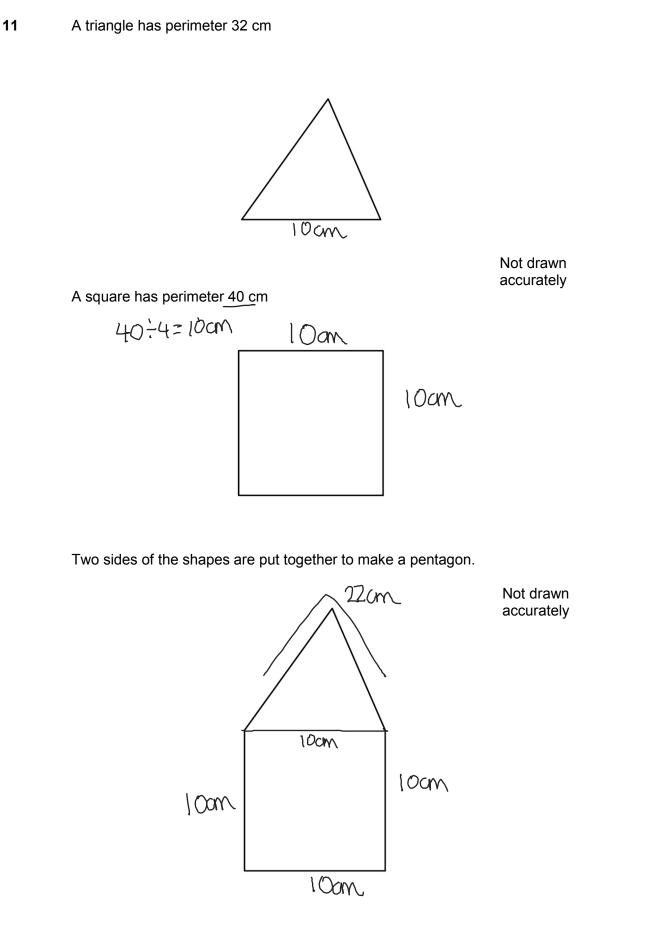
Turn over ►







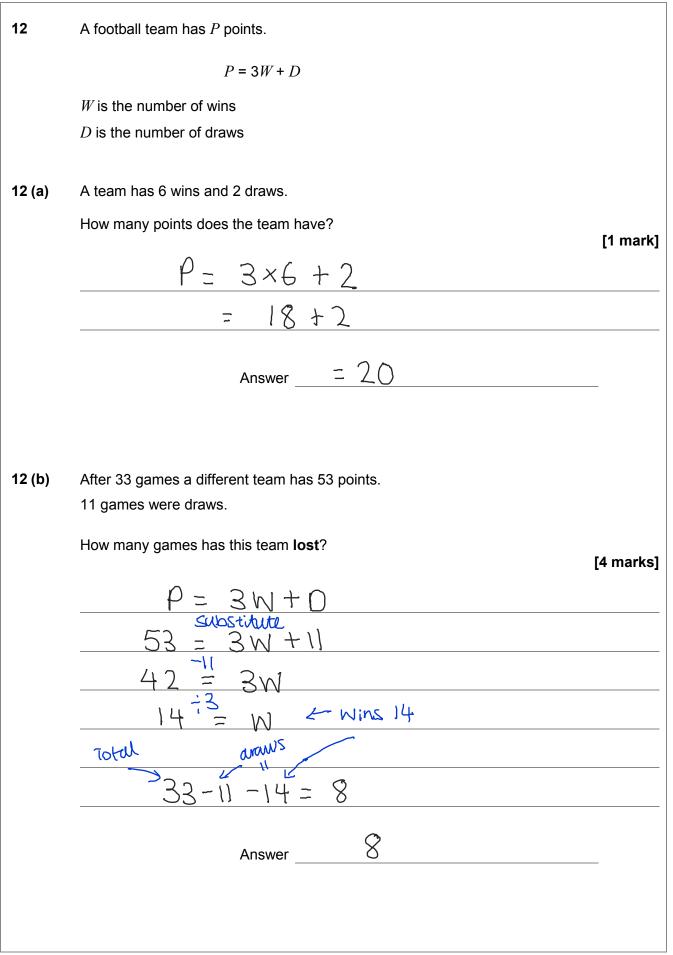






Work out the perimeter of the pentagon.	[4 marks]
Perimeter of 20ther sides of briangle: 32-10 = 220m	
$22 \pm 10 \pm 10 \pm 10 = 52 \text{ cm}$	
Answer 52	cm
Turn over for the next question	
	Turn over ►







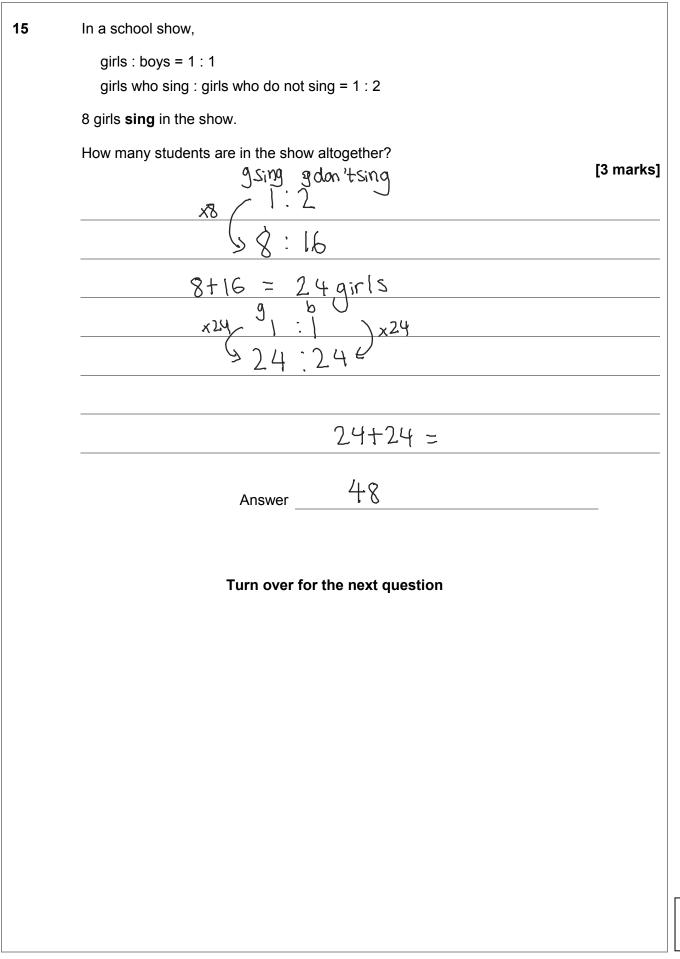
¹³ 2 + 0 + 1 + 7 = 10 Make the following calculations correct. Use only the symbols +, -, ×, ÷ and () 2 + 0 + 1 - 7 = -4 2 × 0 × 1 × 7 = 0 $(2 + 0) \times (1 + 7) = 2^4 = 16$

Turn over for the next question

Turn over ►

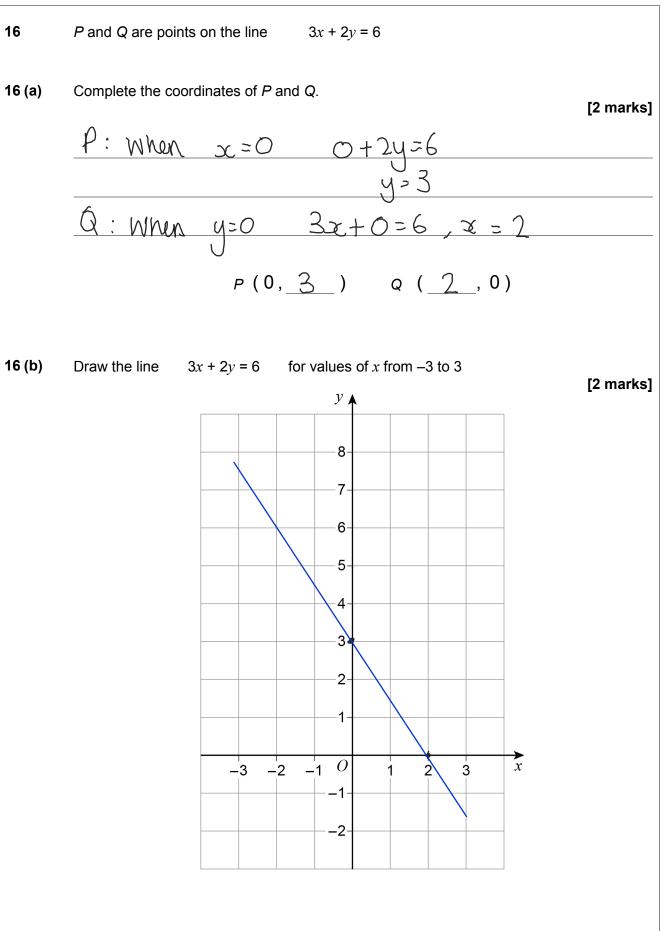
14 A number is picked at random from the first four **prime** numbers. A number is picked at random from the first four **square** numbers. The two numbers are added to get a score. 14 (a) Complete the table. [4 marks] Square numbers + 9 16 1 4 18 2 3 b ł q 3 12 4 7 Prime numbers 14 5 6 q 21 8 16 7 14 (b) What is the probability that the score is a prime number? 6 prime 16 totell [1 mark] = <u>3</u> Answer <u>8</u>



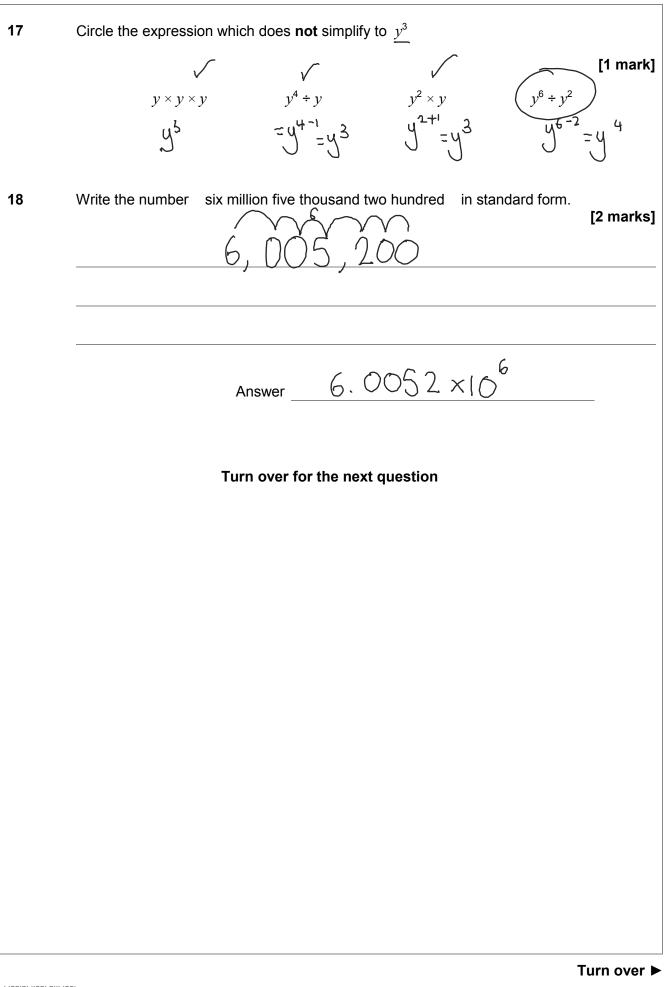




Turn over ►



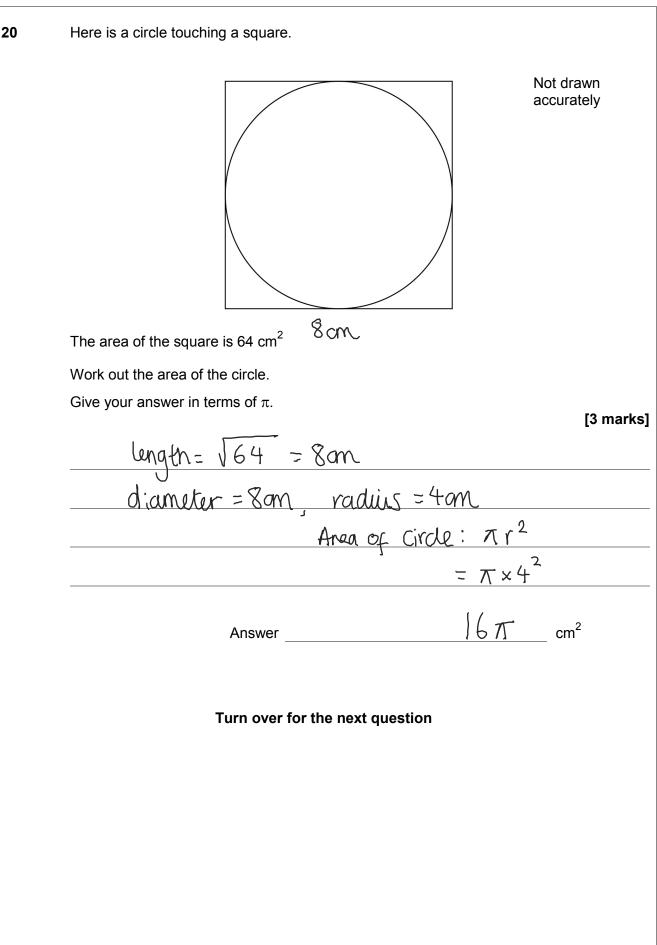






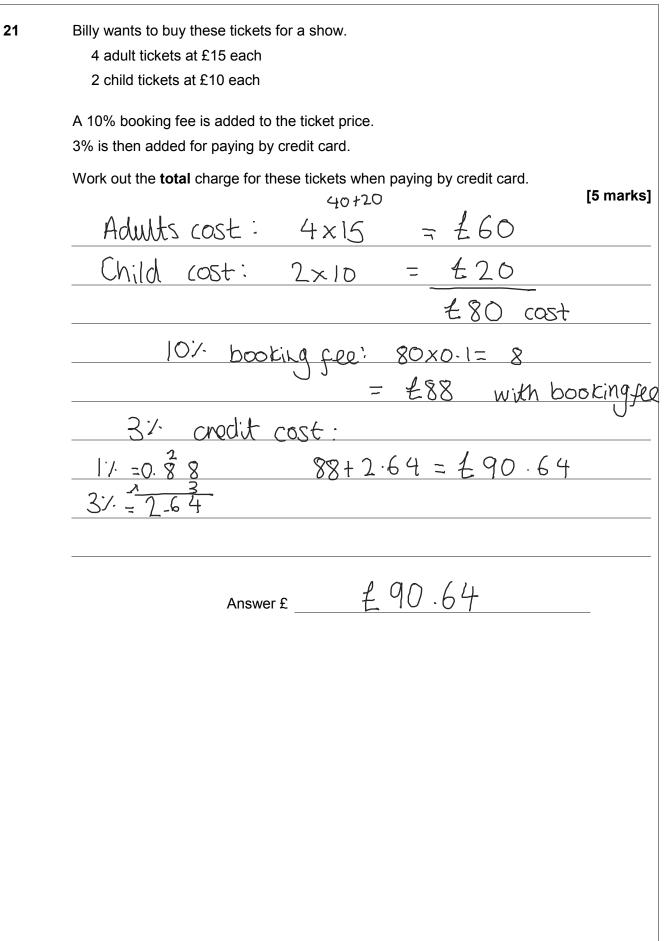
19 (a)	Use 8 km/h = 5 mph to convert 96 km/h to mph	[2 marks]
	x12 (8 km/h : 5mph) $x12x12 (3 46 km/h : 60mph)$	
	Answer 60 mph	mph
19 (b)	x km/h = y mph Use 8 km/h = 5 mph to write a formula for y in terms of x. $ \frac{5 x = 8 y}{5 x = y} $ Answer $y = \frac{5}{8} x$	[2 marks]





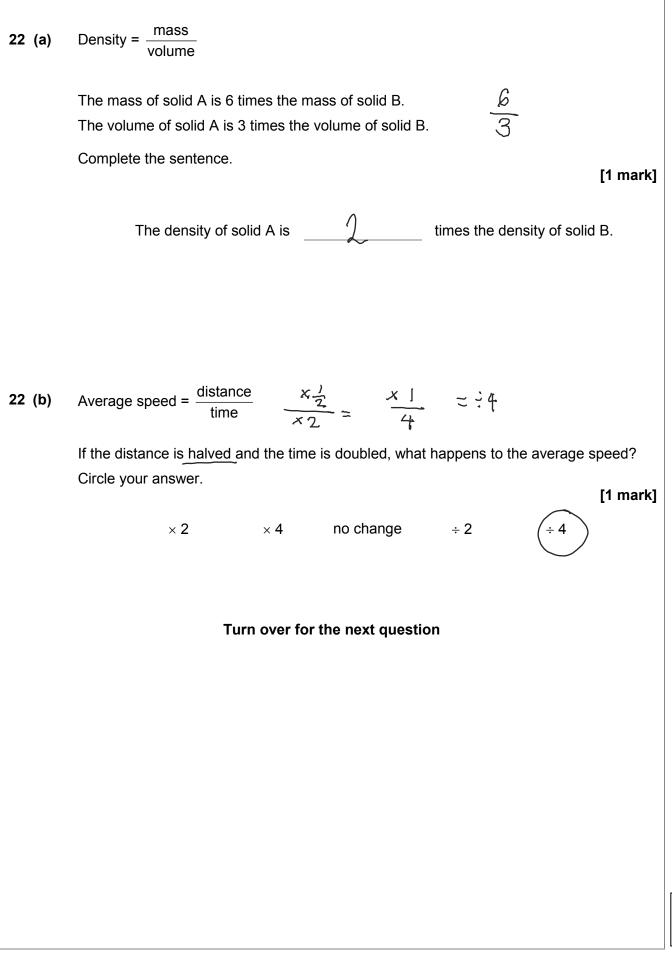


Turn over ►



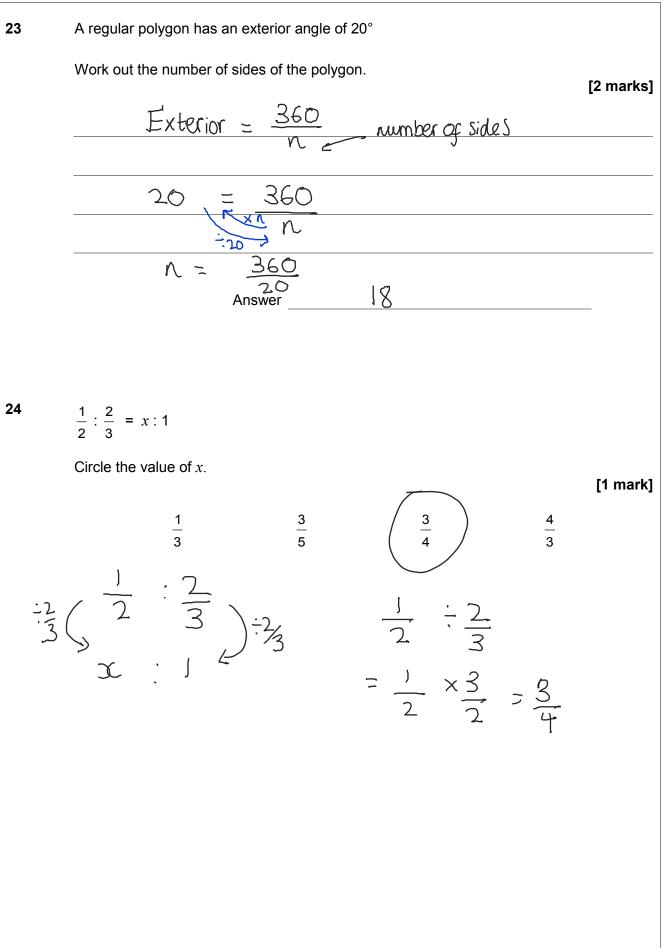




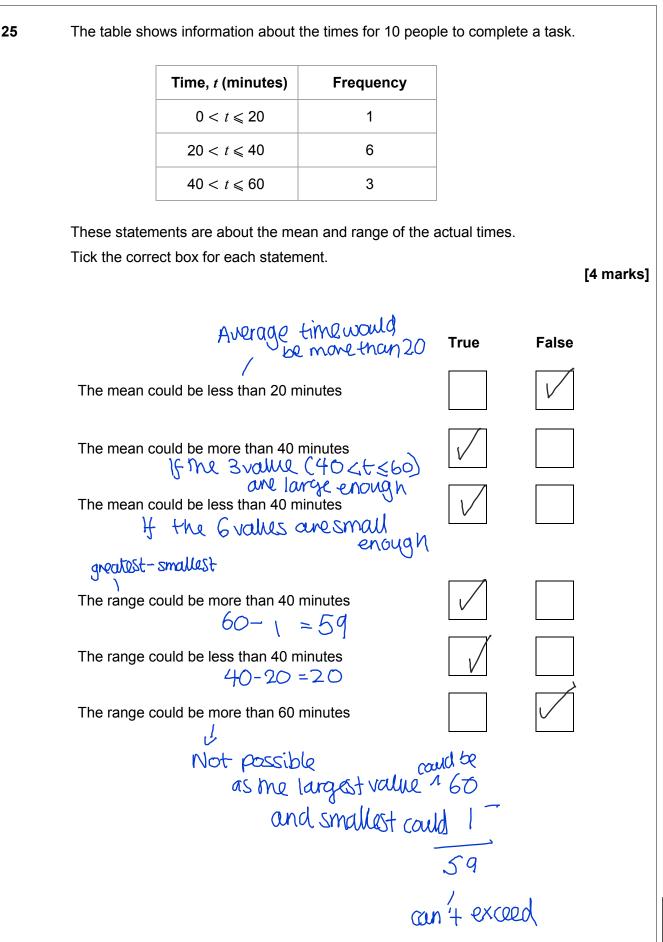




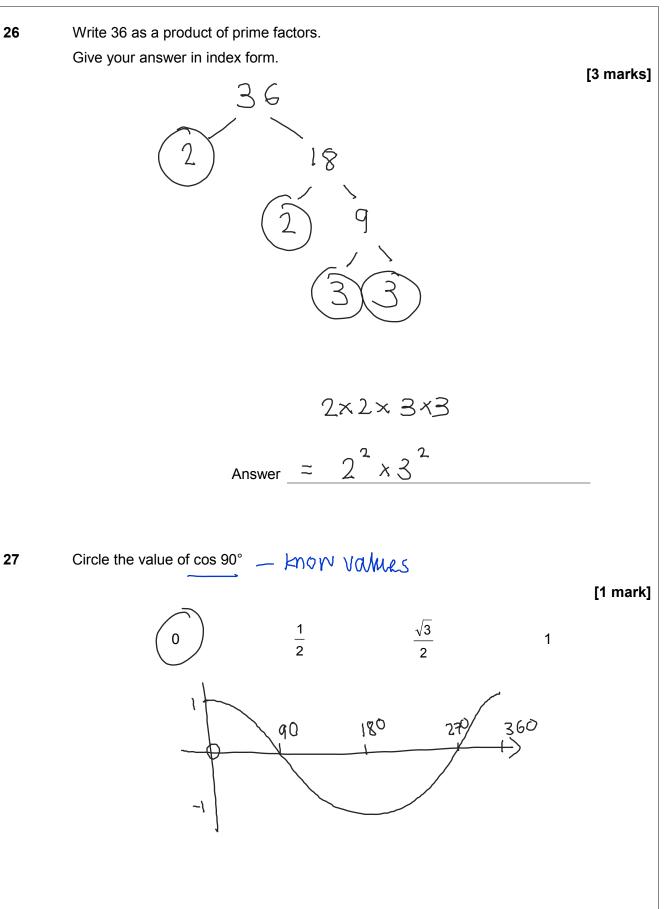
Turn over ►



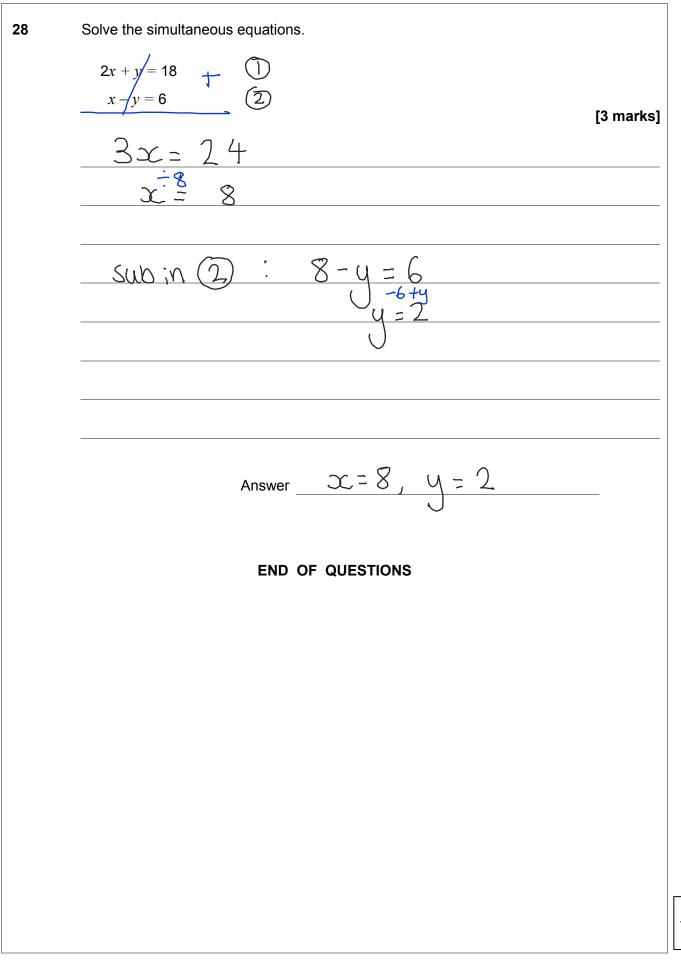
















DO NOT WRITE ON THIS PAGE ANSWER IN THE SPACES PROVIDED

Copyright Information

For confidentiality purposes, from the November 2015 examination series, acknowledgements of third party copyright material will be published in a separate booklet rather than including them on the examination paper or support materials. This booklet is published after each examination series and is available for free download from www.aqa.org.uk after the live examination series.

Permission to reproduce all copyright material has been applied for. In some cases, efforts to contact copyright-holders may have been unsuccessful and AQA will be happy to rectify any omissions of acknowledgements. If you have any queries please contact the Copyright Team, AQA, Stag Hill House, Guildford, GU2 7XJ.

Copyright © 2017 AQA and its licensors. All rights reserved.

