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

GCSE MATHEMATICS

Foundation Tier

Paper 1 Non-Calculator

Thursday 2 November 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

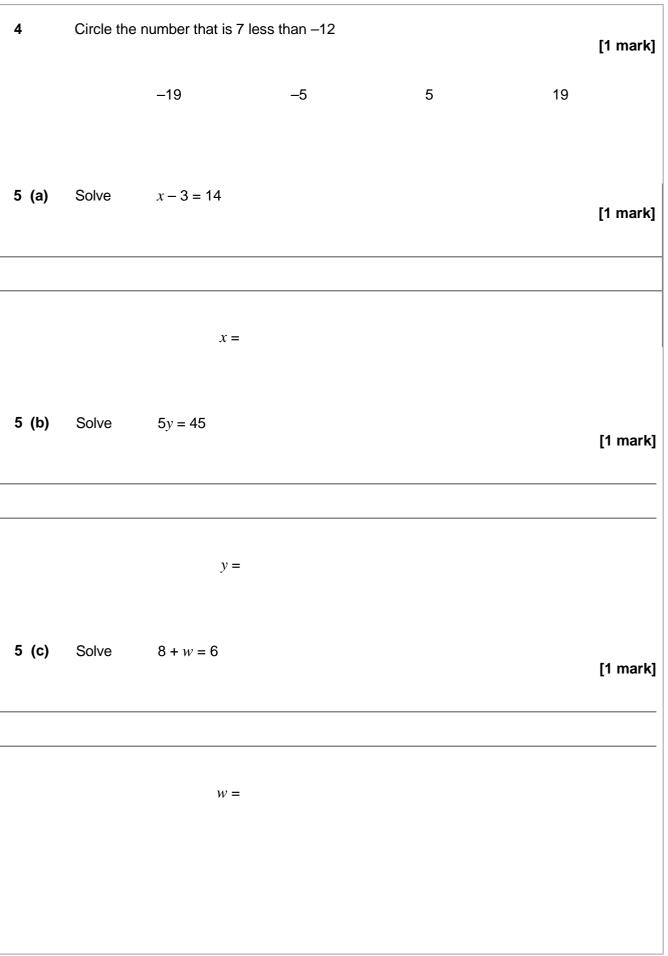
- The marks for questions are shown in brackets.
- The maximum mark for this paper is 80.
- You may ask for more answer paper, graph paper and tracing paper. These must be tagged securely to this answer book.

Advice

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

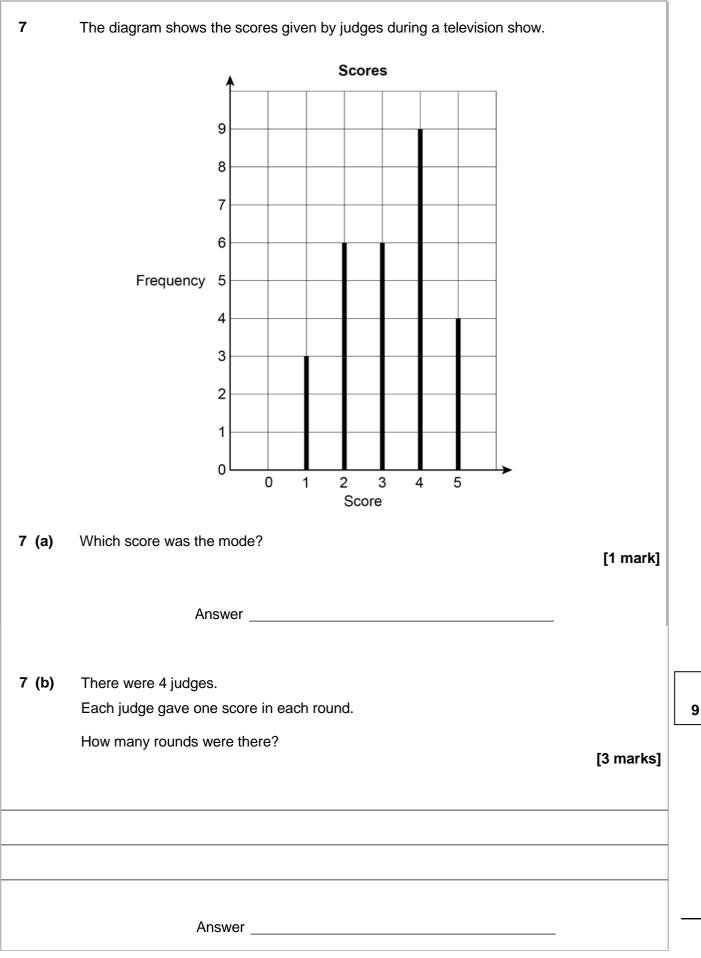
For Examiner's Use				
Pages	Mark			
2–3				
4–5				
6–7				
8–9				
10–11				
12–13				
14–15				
16–17				
18–19				
20–21				
22–23				
24–25				
26–27				
28–29				
TOTAL				

Answer all questions in the spaces provided						
Circle the decimal which has the same value as $\frac{3}{5}$						
0.06	0.35	0.6	3.5			
How many millimetr Circle your answer.	es are there in 7.5	centimetres?		[1 mark]		
0.75	70.5	75 750	7500			
Which of these shap Circle your answer.	oes has two lines of	symmetry?		[1 mark]		
Semicircle	Rhombus	Trapezium	Isosceles tri	angle		
	Circle the decimal v 0.06 How many millimetr Circle your answer. 0.75 Which of these shap Circle your answer.	Circle the decimal which has the same 0.06 0.35 How many millimetres are there in 7.5 c Circle your answer. 0.75 70.5 Which of these shapes has two lines of Circle your answer.	Circle the decimal which has the same value as $\frac{3}{5}$ 0.060.350.6How many millimetres are there in 7.5 centimetres? Circle your answer.0.7570.575750Which of these shapes has two lines of symmetry? Circle your answer.	Circle the decimal which has the same value as $\frac{3}{5}$ 0.06 0.35 0.06 0.35 How many millimetres are there in 7.5 centimetres? Circle your answer. 0.75 70.5 75 750 Which of these shapes has two lines of symmetry? Circle your answer.		



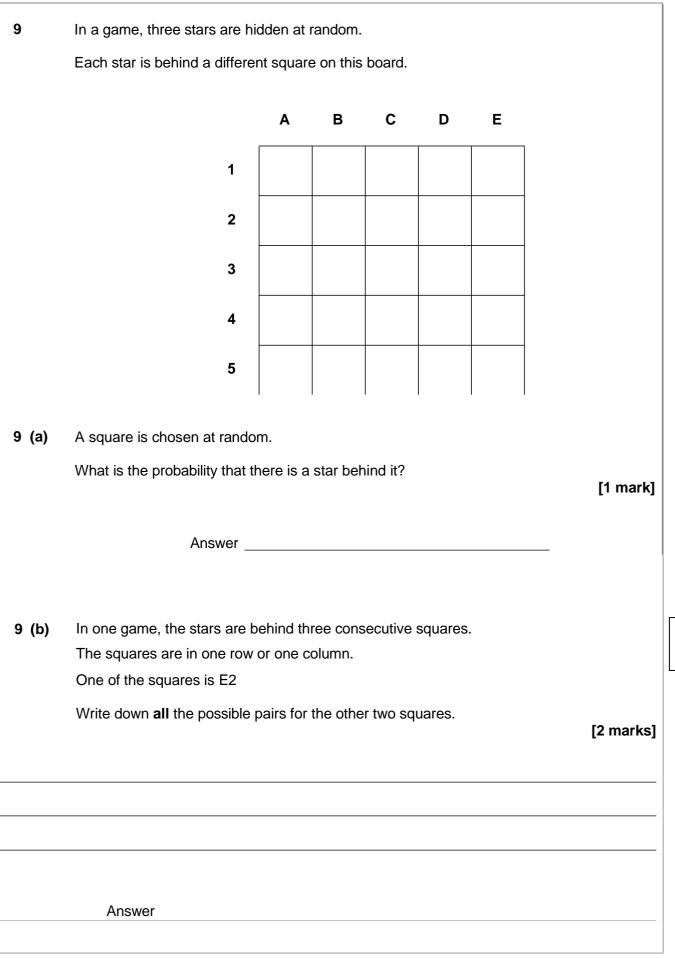
Turn over ►

6 (a)	Work out	9174 ÷ 11	[2 marks]
		Answer	
6 (b)	Work out	$\frac{5}{6} + \frac{3}{7}$	
	Give your and	swer as a mixed number.	[3 marks]
		Answer	



Turn over ►

8	A library book was due to be returned on 27 September. It was actually returned on 14 October. There is a fine of 8p for every day the book is late.	
	Work out the total fine.	[3 marks]
	Answer £	



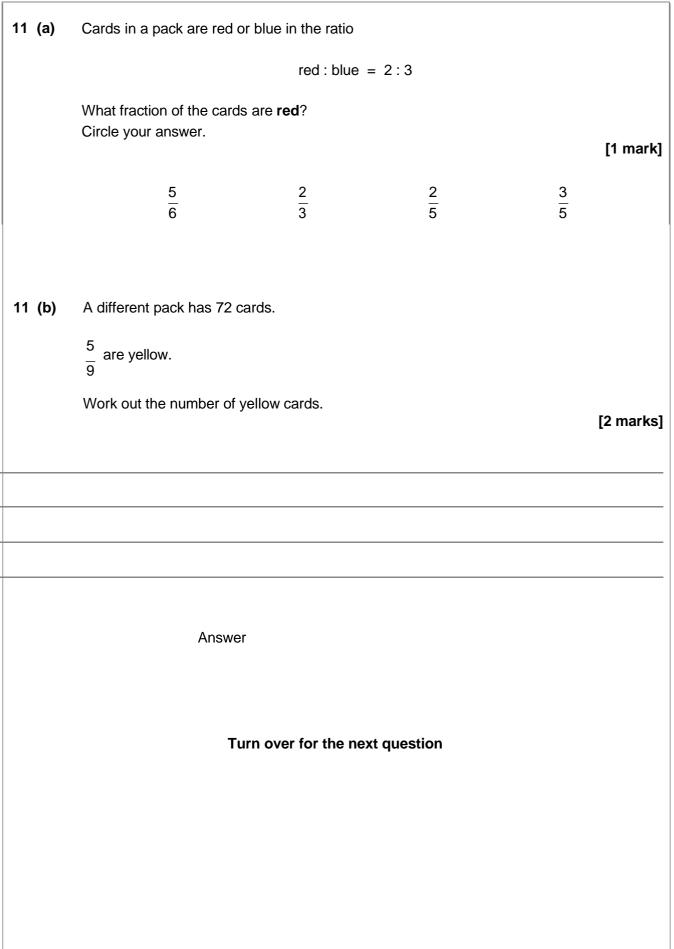
Complete the table to show equivalent fractions and percentages.

10

[3 marks]

Fraction	Percentage
$\frac{1}{2}$	50%
3 10	
	43%
5 2	

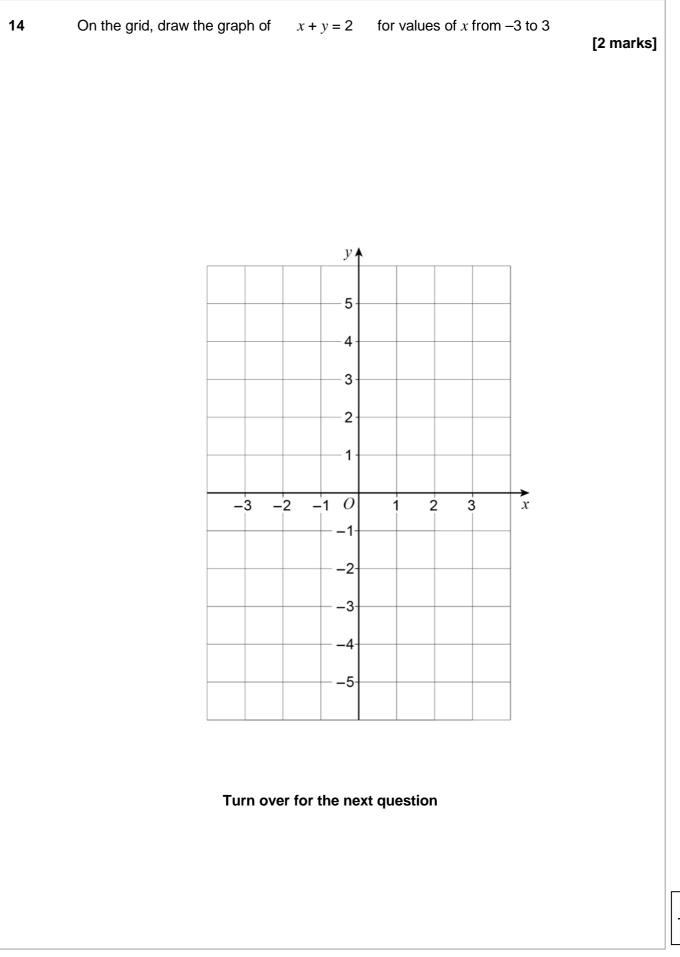
IB/M/Nov17/8300/1F



Turn over 🕨

6

12 (a)	How many edges are Circle your answer.	there on a square-based p	oyramid?	[1 mai	r k]
	4	5	8	12	
12 (b)	How many faces of a t Circle your answer.	riangular prism are triang	les?	[1 mai	r k]
	2	3	4	5	
13	The probability that	the bus is early is 0.1 the bus is on time is 0.6			
	Work out the probabili	ty that the bus is late.		[2 mark	(s]
	Ans	wer			



15	5% of a number is 31	
	1% of the same number is 6.2	
	Work out 13% of the number.	[3 marks]
	Answer	

16 Complete the grid so that when you

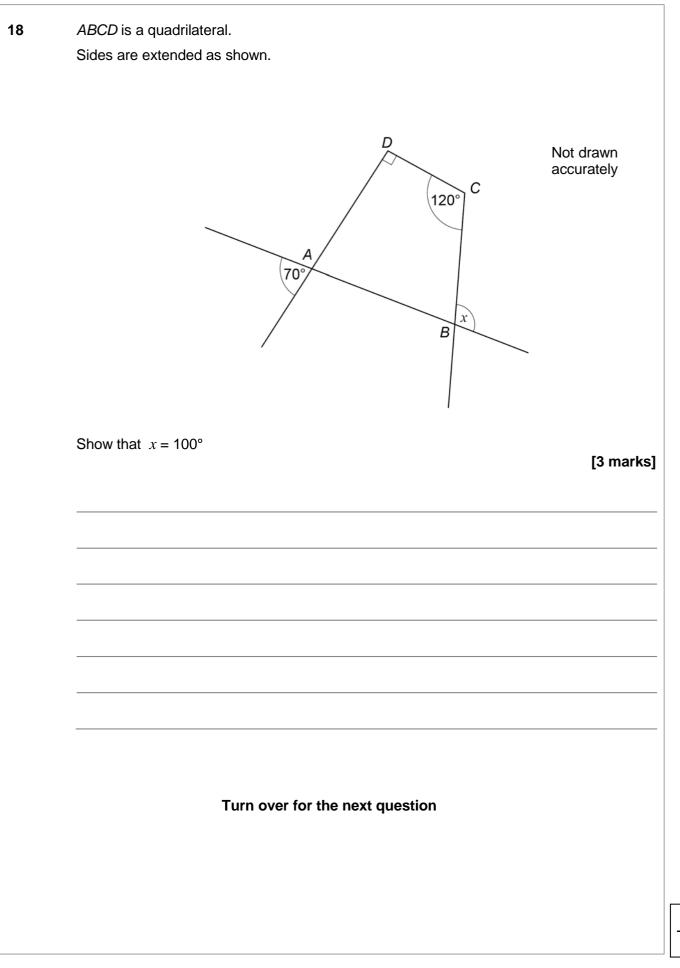
multiply the three numbers in any column, row or diagonal the answer is 1

[3 marks]

10		$\frac{1}{2}$
$\frac{1}{20}$		20
2	5	

Turn over for the next question

17	A sequence has three terms.	
	The term-to-term rule for the sequence is	
	multiply by 8 and then add 11	
17 (a)	The first term of the sequence is –1	
17 (0)		
	Work out the third term.	[2 marks]
	Answer	
17 (b)	The order of the three terms is reversed to make a new sequence.	
	Work out the term-to-term rule for this sequence.	
		[1 mark]
	Answer	

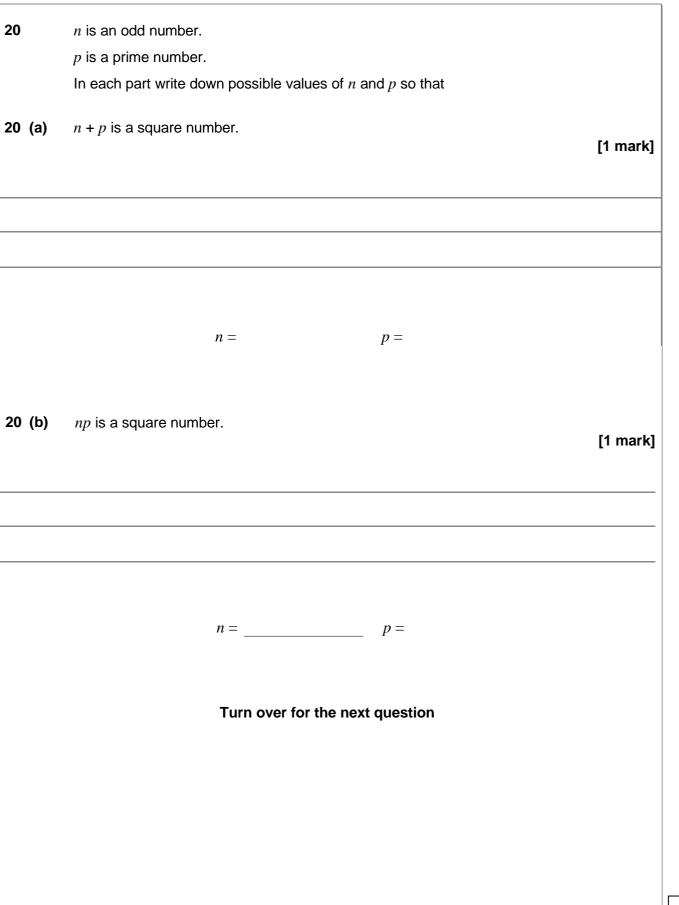


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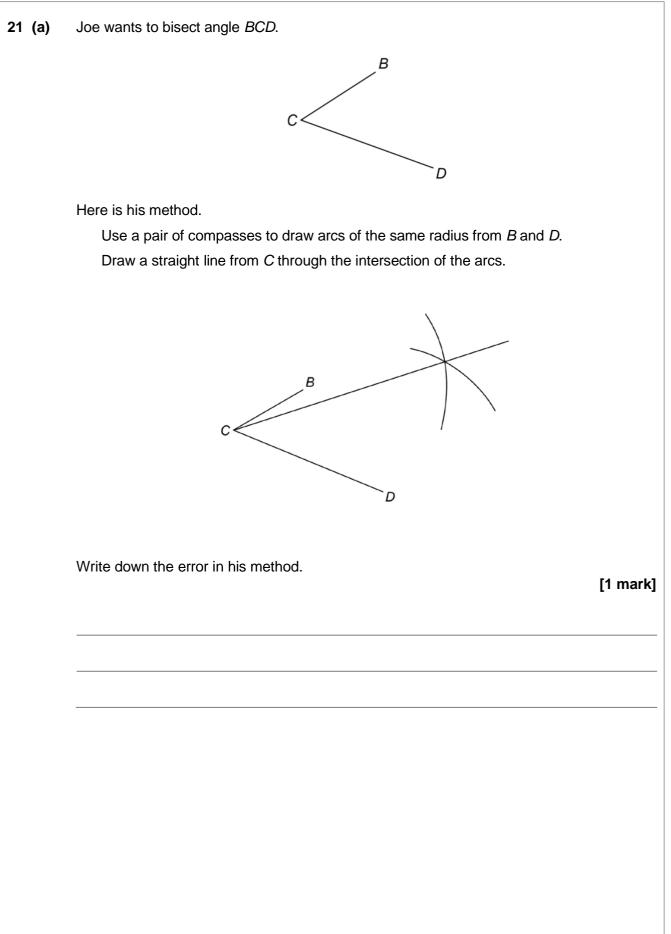
6

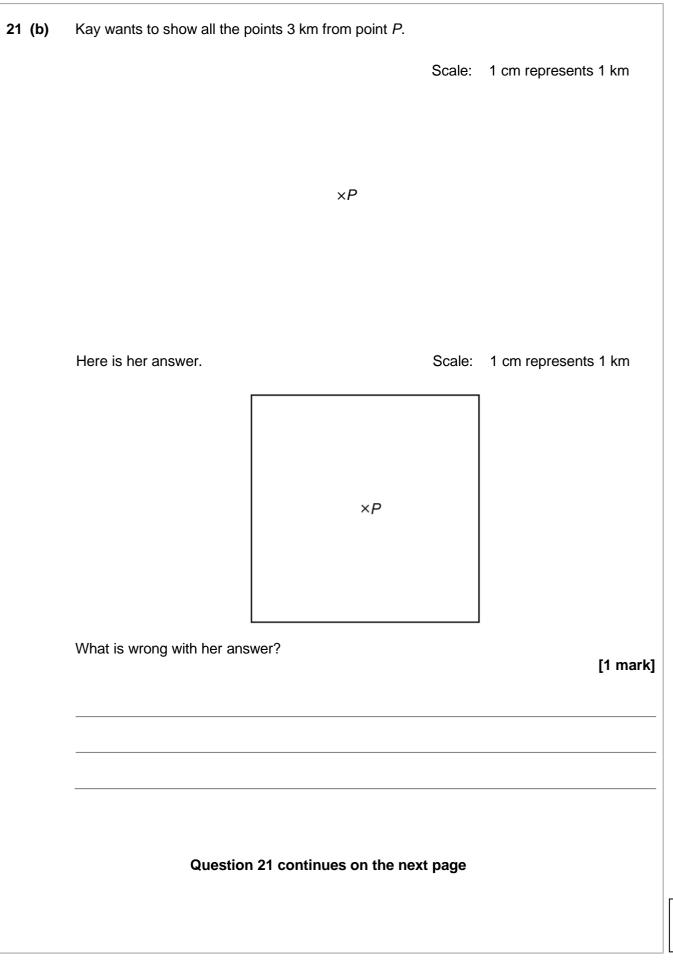
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19	Use	2 gallons = 9 litres	to convert 17 gallons into litres.	[3 marks]
		Answer		litres



Turn over 🕨





Turn over 🕨

box

21 (c) Here is a rectangle.

┝

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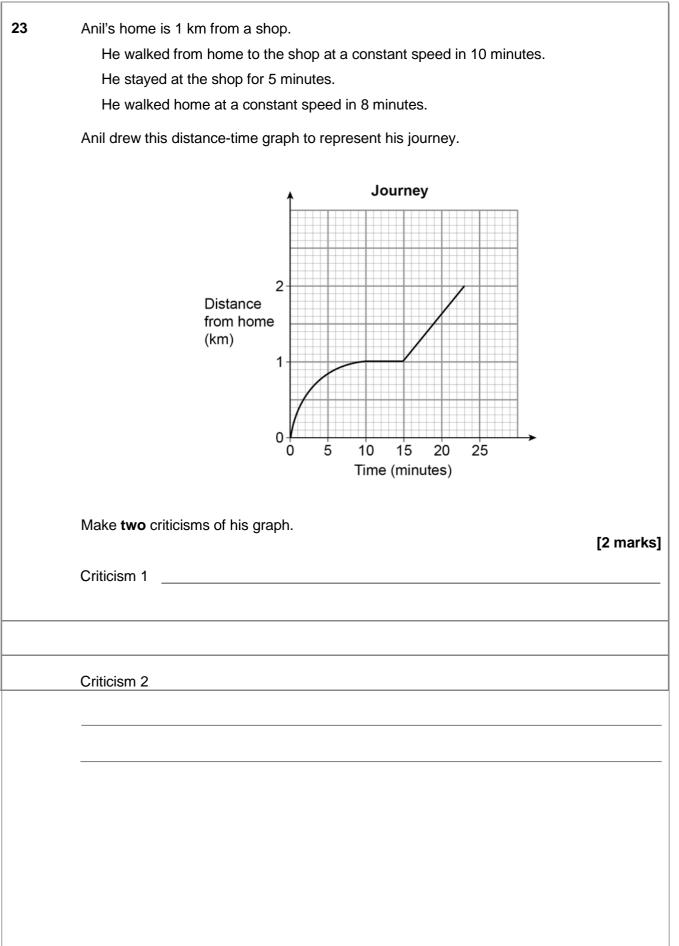
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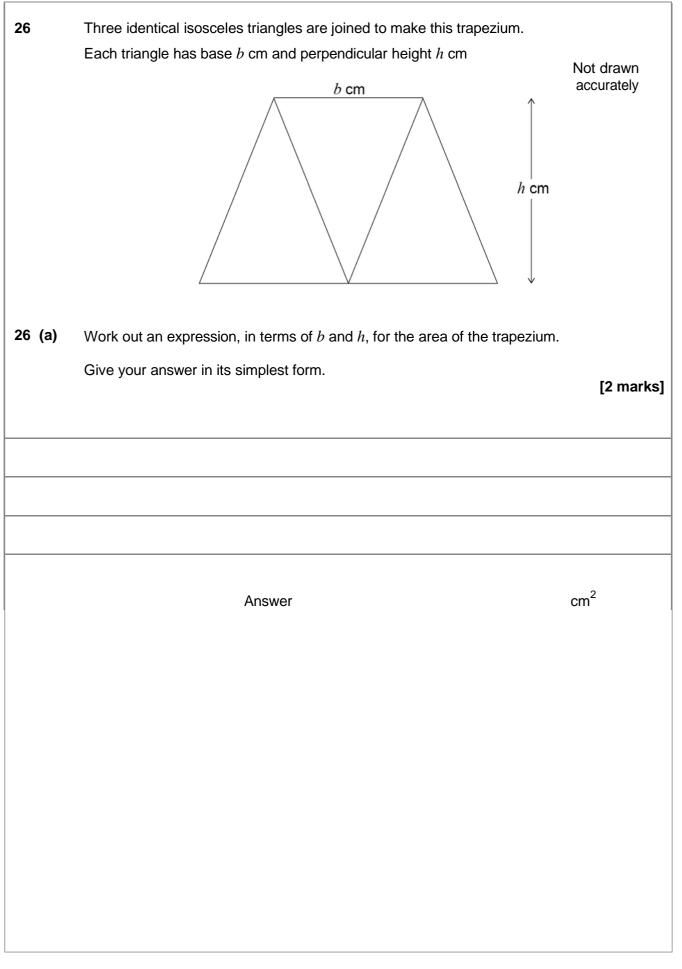
Using a pair of compasses and a straight edge, construct **one** line of symmetry. Show clearly your construction arcs.

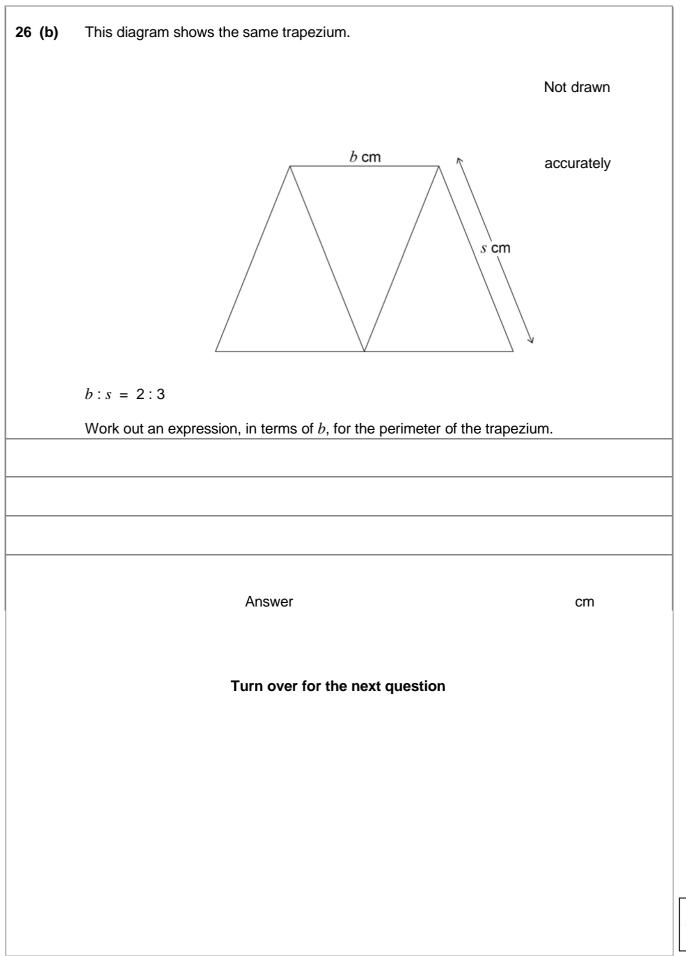
[2 marks]

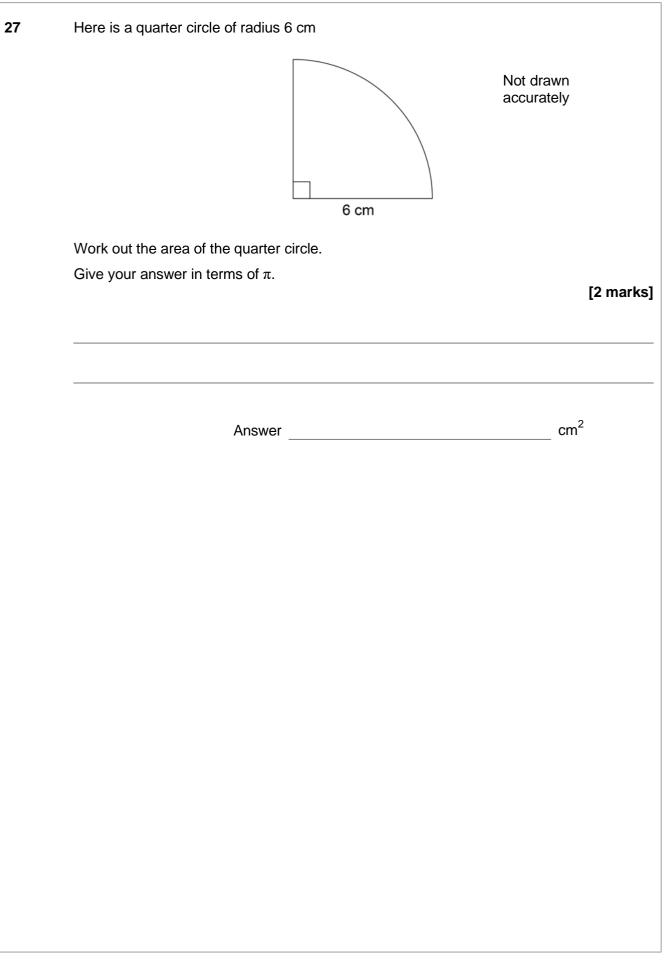
22	x: y = 7: 4	
	x + y = 88	
	Work out the value of $x - y$	[3 marks]
	Answer	_
	Turn over for the next question	
	rum over for the next question	



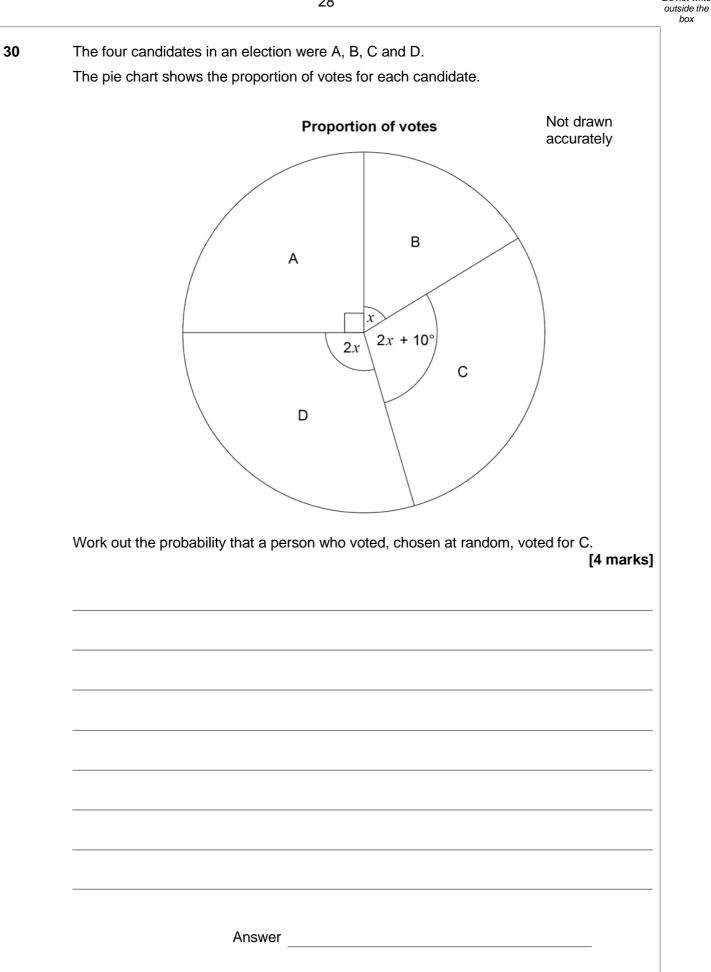
24	Three whole numbers are each rounded to the nearest 10	
	The sum of the rounded numbers is 70	
	Work out the maximum possible sum for the original three numbers.	
		[2 marks]
	Answer	
25	Circle the expression for the range of n consecutive integers.	
20		[1 mark]
	$\frac{n+1}{2}$ $n-1$ n $n+1$	
	$\frac{1}{2}$ $n-1$ n $n+1$	
	Turn over for the next question	





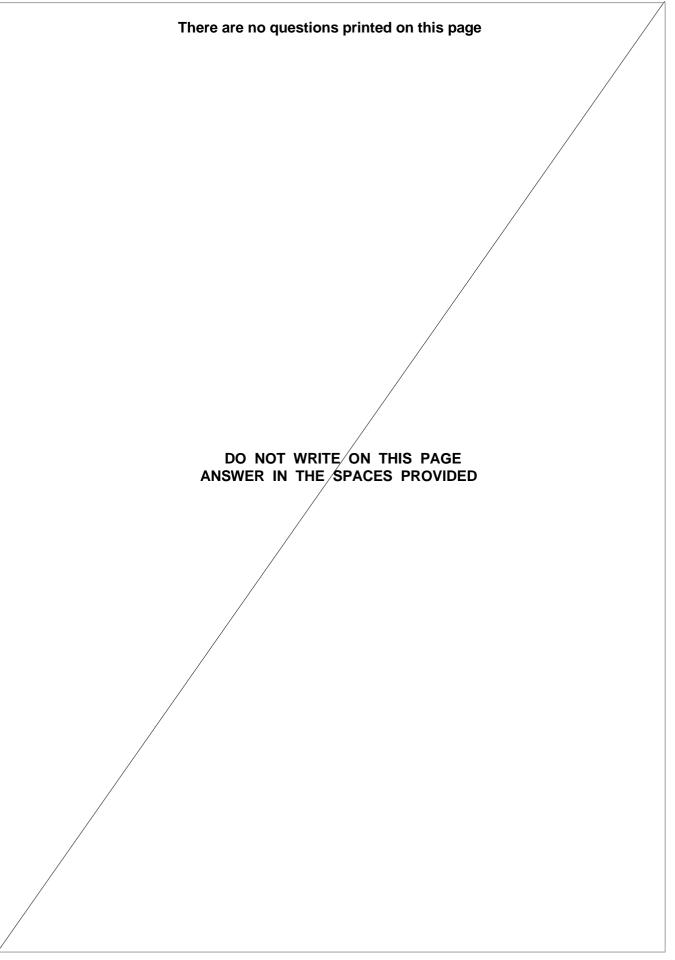


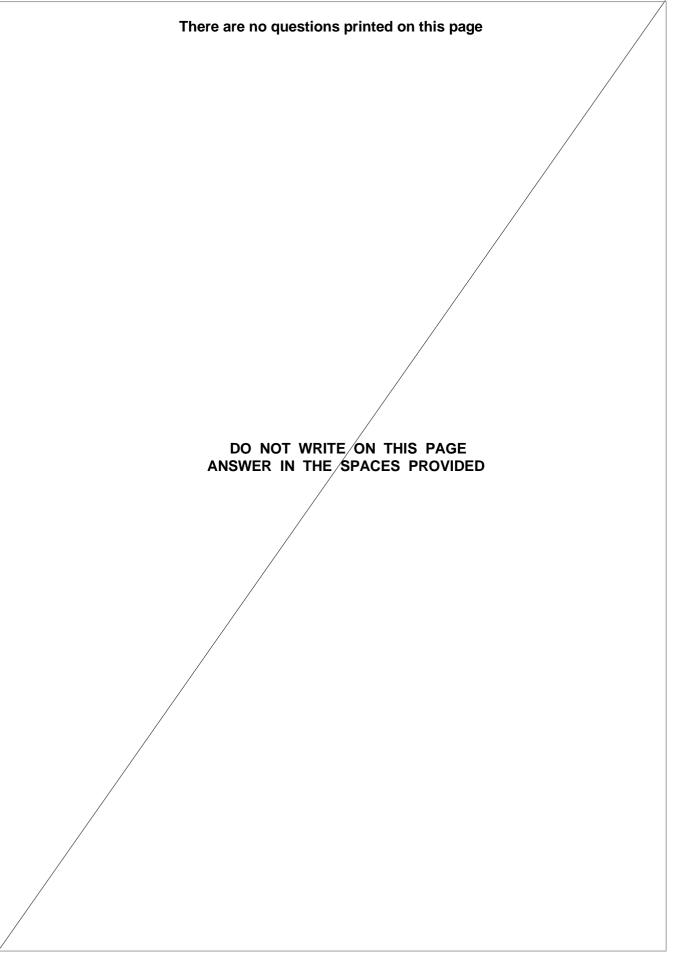
	27		Do not write outside the box
28 (a)	Write in standard form 12 500	[1 mark]	
	Answer		
28 (b)	Write as an ordinary number 3.4×10^{-2}	[1 mark]	
	Answer		
29	Work out the value of $(\sqrt{3})^2 \times (\sqrt{2})^2$	[2 marks]	
	Answer		
	Turn over for the next question		
			6

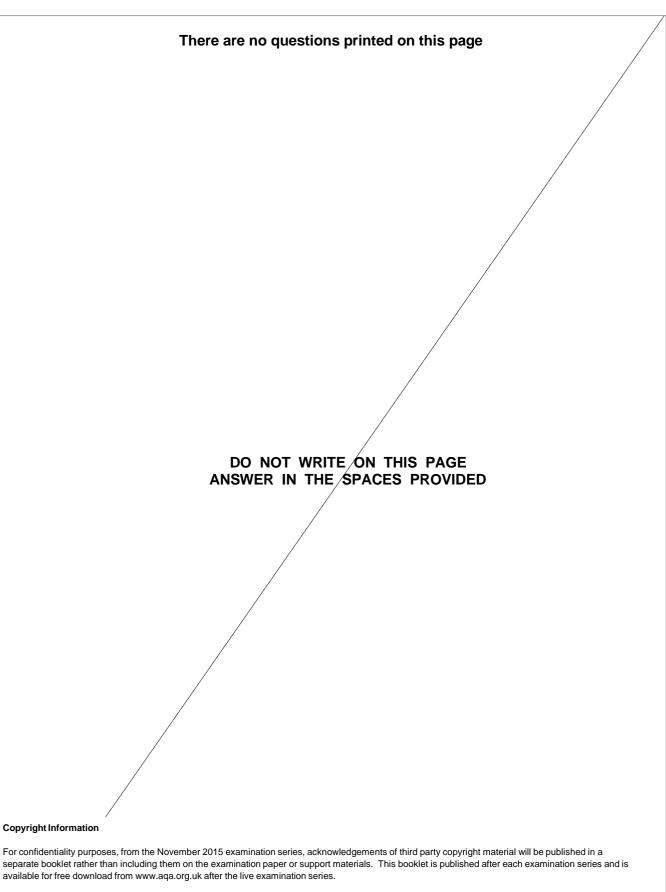


Do not write

 $x^2 - 100$ 31 (a) Factorise [1 mark] Answer 31 (b) Solve 7x + 6 > 1 + 2x[2 marks] Answer END OF QUESTIONS







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