Please write clearly in	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.

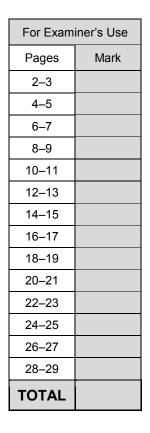
#### Information

- 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.

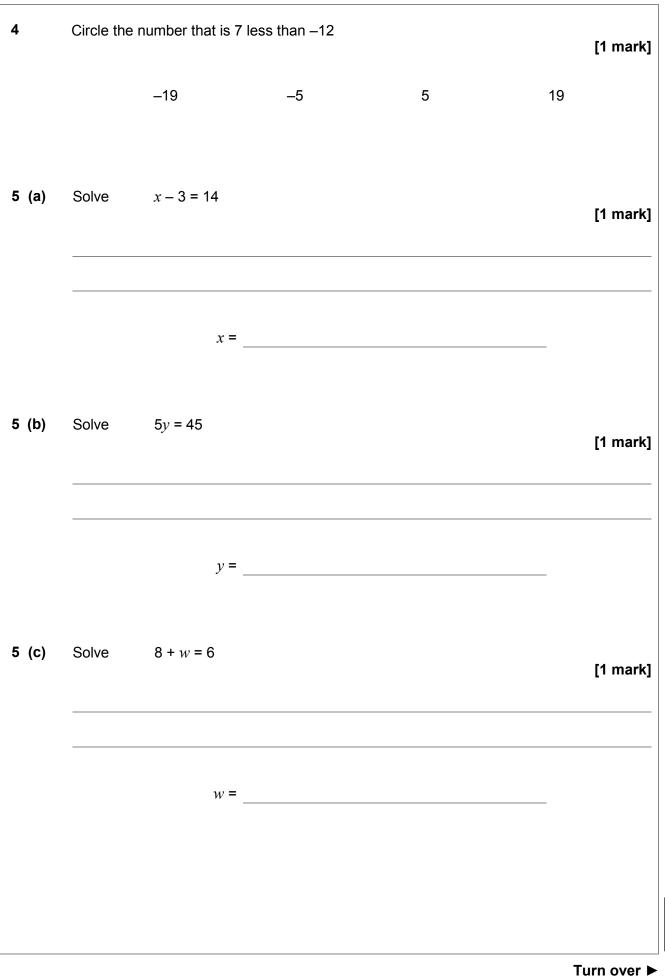






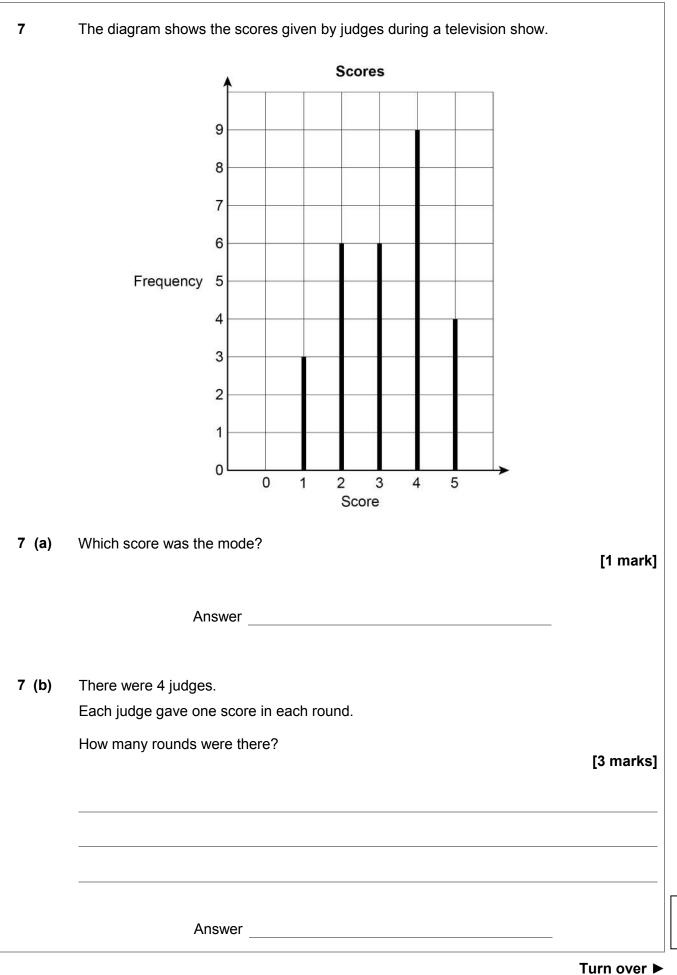
	A	nswer <b>all</b> questi	ons in the spa	aces provided		
1	Circle the decimal which has the same value as $\frac{3}{5}$					[1 mark]
	0.06	0.	35	0.6	3.5	
2	How many millime Circle your answei		7.5 centimet	res?		[1 mark]
	0.75	70.5	75	750	7500	
3	Which of these sha Circle your answer		es of symmet	ry?		[1 mark]
	Semicircle	Rhombus	s Tra	apezium	Isosceles triar	ngle







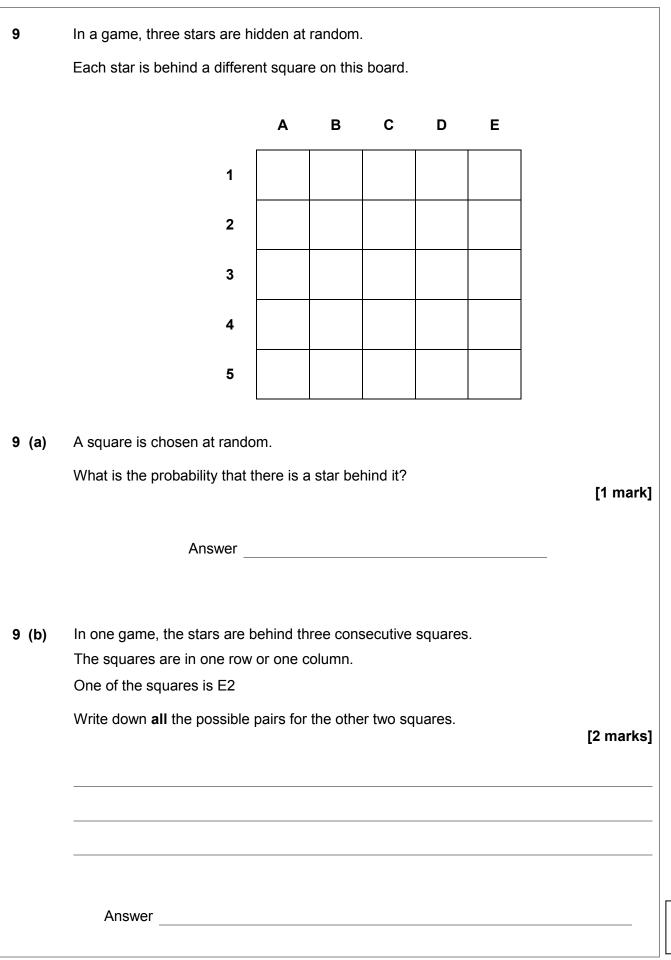






8	A library book was due to be returned on 27 September.	
	It was actually returned on 14 October.	
	There is a fine of 8p for every day the book is late.	
	Work out the total fine.	
		[3 marks]
	Answer £	



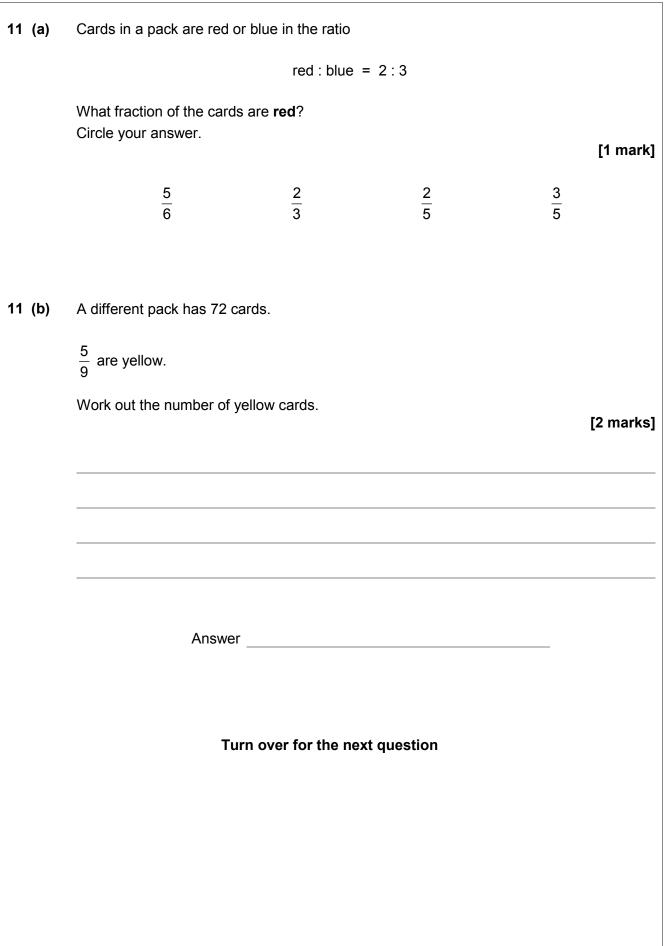




## [3 marks]

Fraction	Percentage
<u>1</u> 2	50%
<u>3</u> 10	
	43%
<u>5</u> 2	

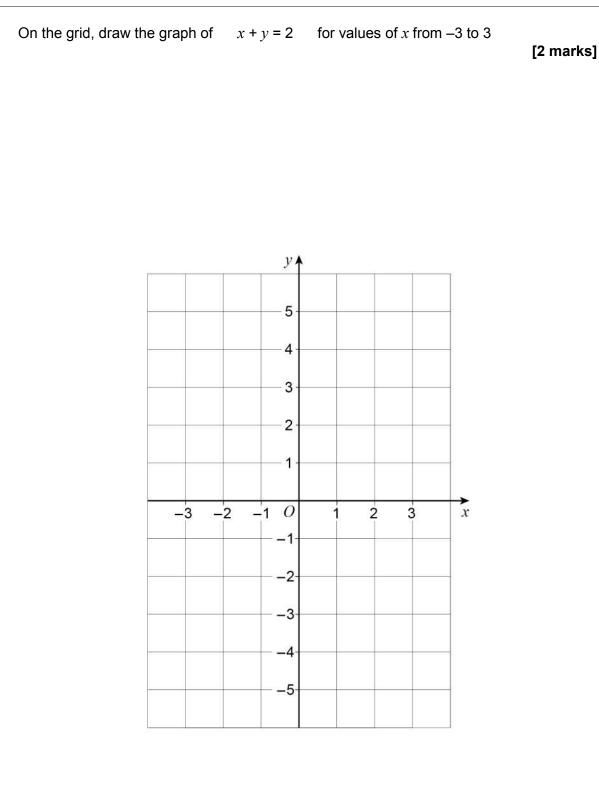






12 (a)	How many edges are th Circle your answer.	ere on a square-based	pyramid?	ſ	1 mark]
	4	5	8	12	
12 (b)	How many faces of a tri Circle your answer.	angular prism are trian	gles?	[	1 mark]
	2	3	4	5	
13	A bus can be early, on t The probability that t The probability that t Work out the probability	he bus is early is 0.1 he bus is on time is 0.6		[2	marks]
	Answ	er			





Turn over for the next question



14

Turn over ►

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

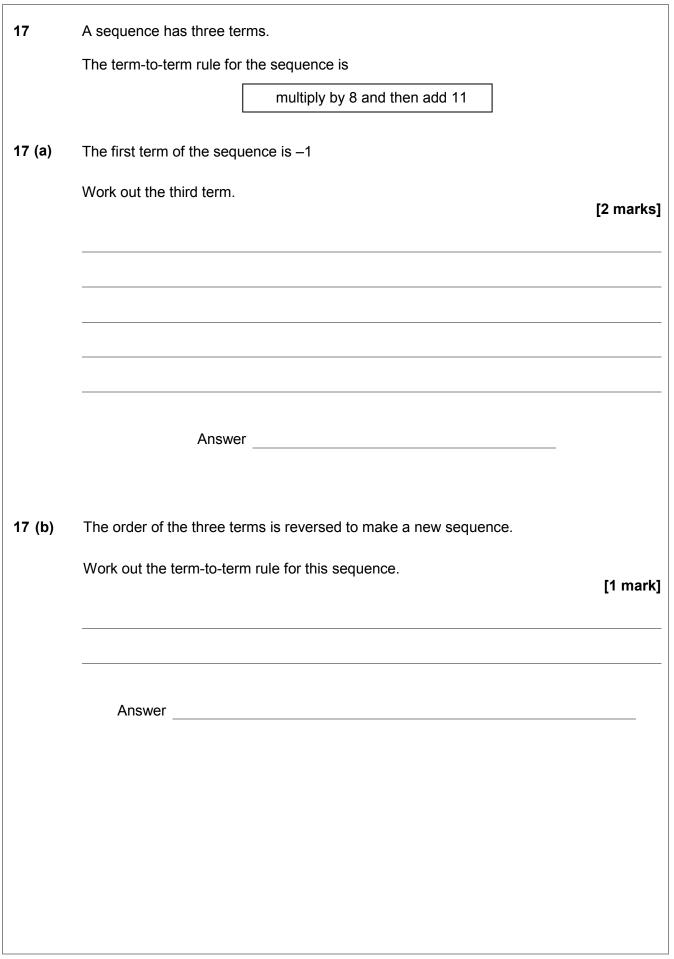
multiply the three numbers in any column, row or diagonal the answer is 1

[3 marks]

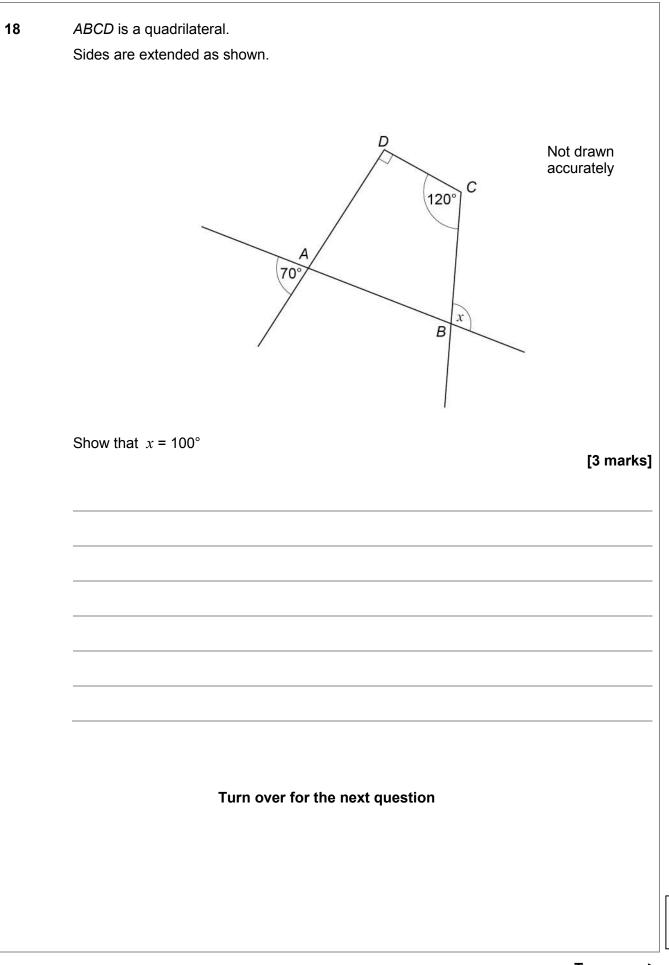
10		$\frac{1}{2}$
$\frac{1}{20}$		20
2	5	

Turn over for the next question





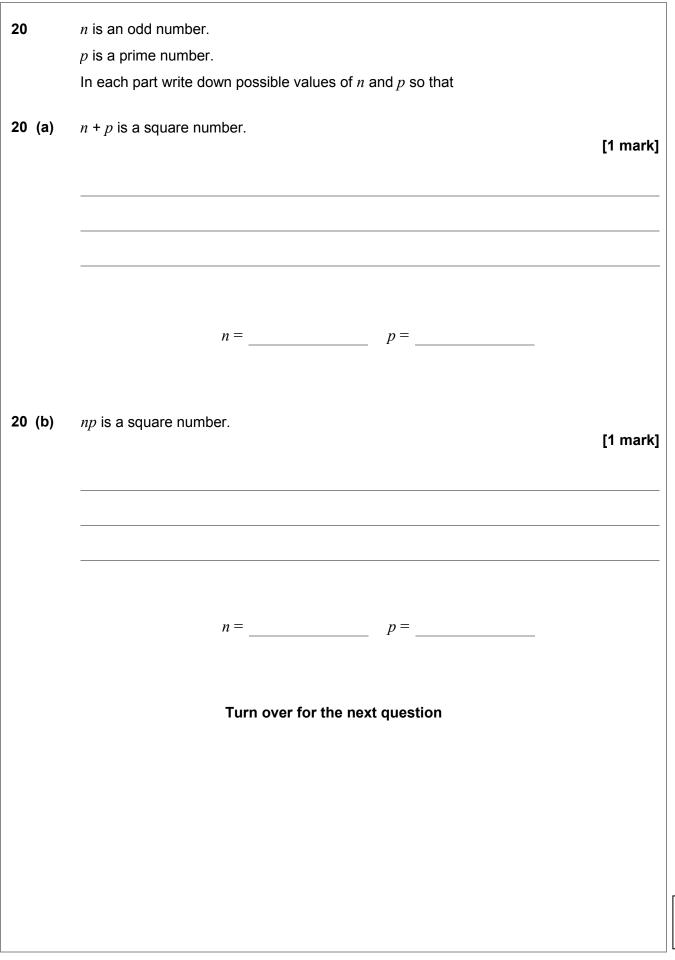






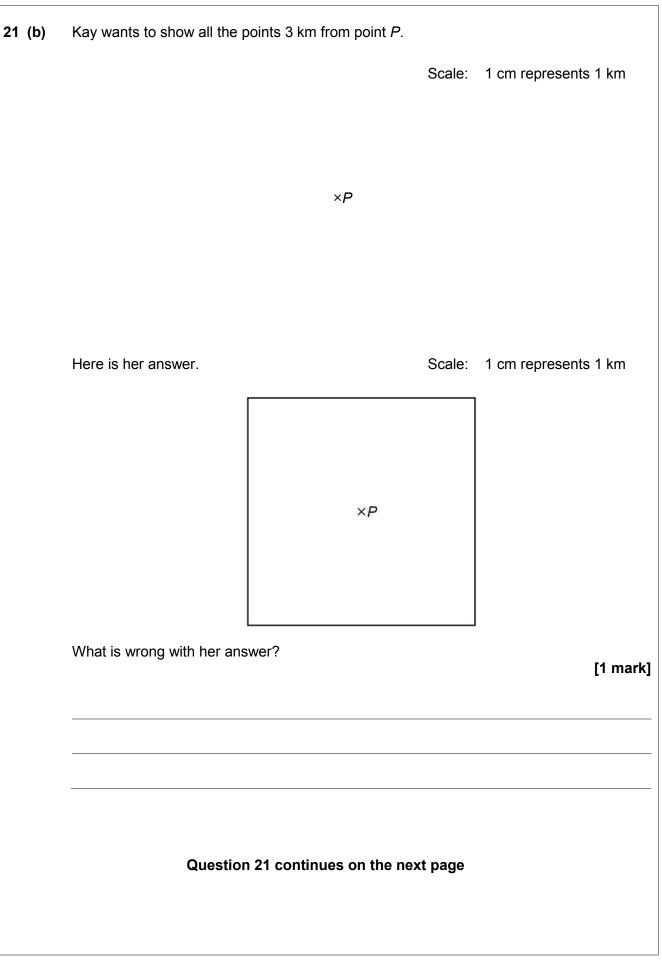
19	Use	2 gallons = 9 litres	to convert 17 gallons into litres.	[3 marks]
		Answer		litres













#### **21 (c)** Here is a rectangle.

F

⊢

F

F

⊢

⊢

F

F

F

F

F

⊢

⊢

⊢

⊢

⊢

F

⊢

F

F



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	
I		Turn over ►



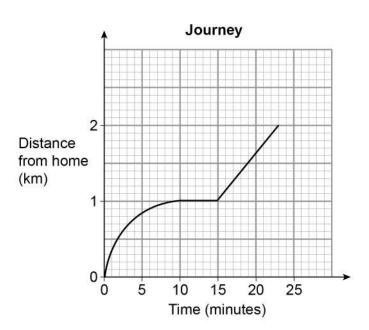
**23** Anil's home is 1 km from a shop.

He walked from home to the shop at a constant speed in 10 minutes.

He stayed at the shop for 5 minutes.

He walked home at a constant speed in 8 minutes.

Anil drew this distance-time graph to represent his journey.



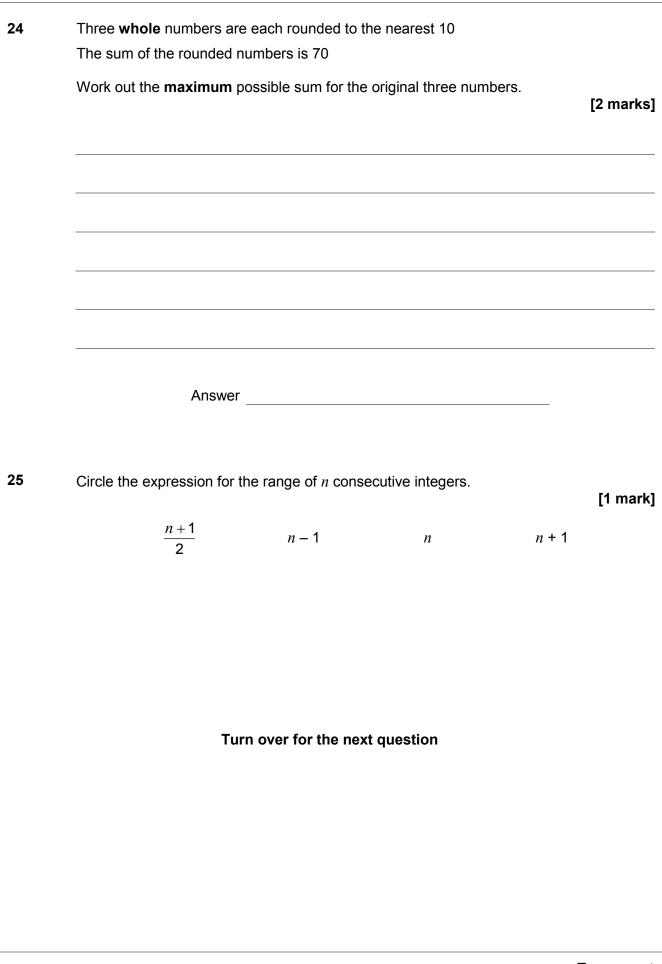
Make **two** criticisms of his graph.

Criticism 1

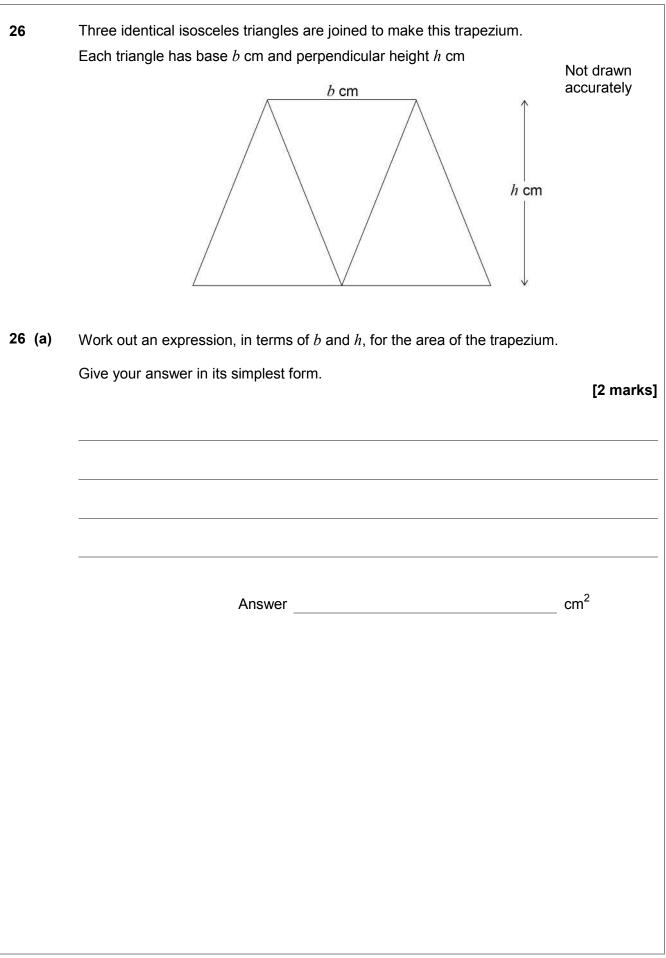
[2 marks]

Criticism 2

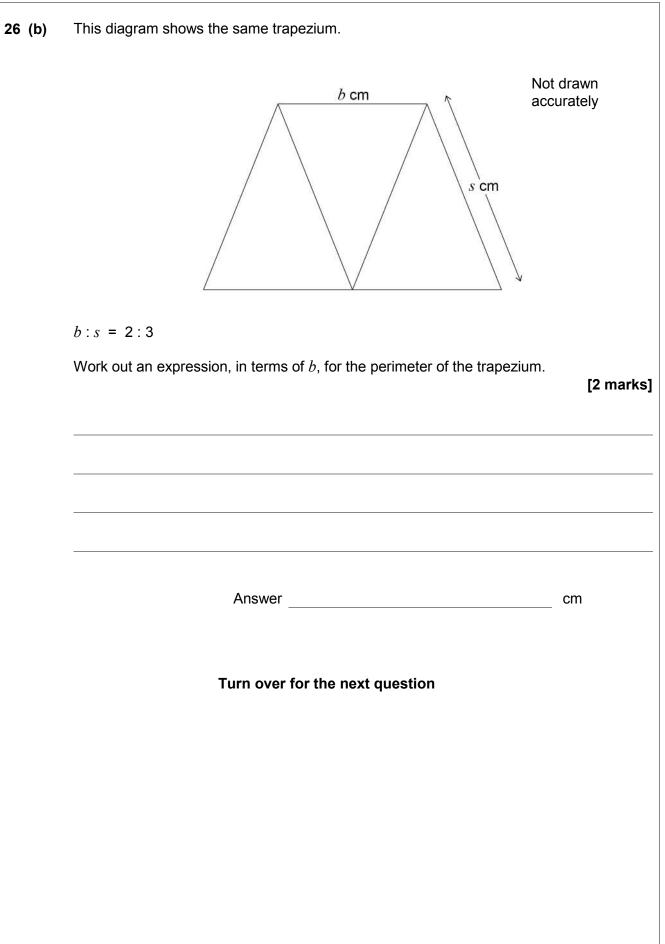












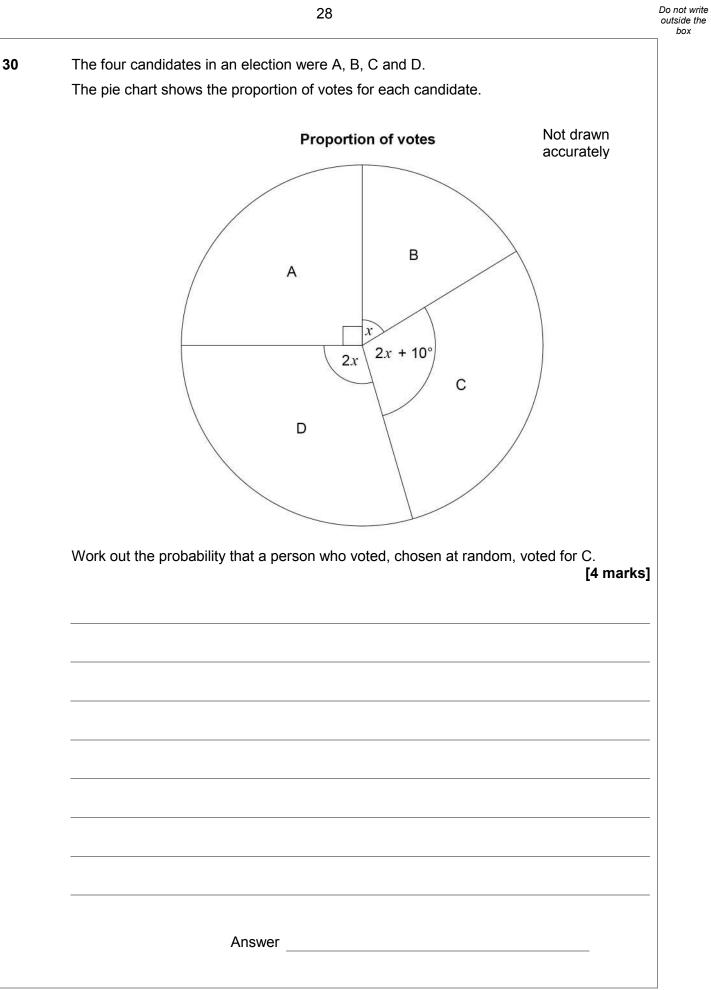


27	Here is a quarter circle of radius 6 cm	
		Not drawn accurately
	Work out the area of the quarter circle.	
	Give your answer in terms of $\pi$ .	
		[2 marks]
	Answer	cm <sup>2</sup>



	27		o not write outside the box
28 (a)	Write in standard form 12 500	[1 mark]	
	Answer		
28 (b)	Write as an ordinary number $3.4 \times 10^{-2}$	[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
			•

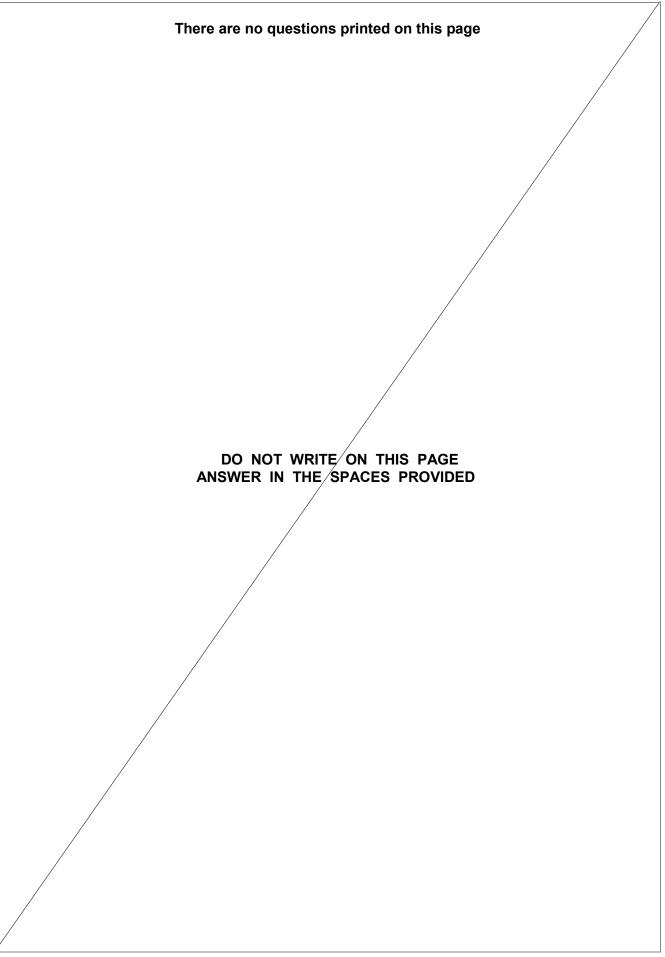




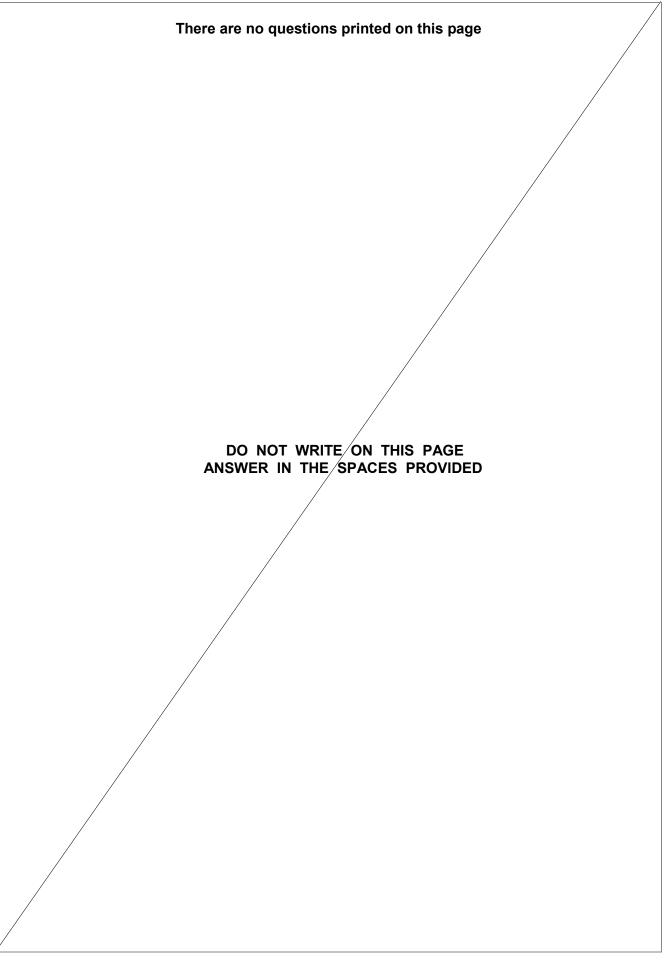


31 (a)	Factorise $x^2 - 100$	[1 mark]
	Answer	
31 (b)	Solve $7x + 6 > 1 + 2x$ [2	2 marks]
	Answer	
	END OF QUESTIONS	













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