AQA	
Please write clearly ir	ı block capitals.
Centre number	Candidate number
Surname	
Forename(s)	
Candidate signature	
	I declare this is my own work.

GCSE MATHEMATICS

Foundation Tier

Paper 1 Non-Calculator

Friday 19 May 2023

Morning

Time allowed: 1 hour 30 minutes

Materials

For this paper you must have:

- mathematical instruments
- the Formulae Sheet (enclosed).

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 questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- If you need extra space for your answer(s), use the lined pages at the end of this book. Write the question number against your answer(s).
- 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

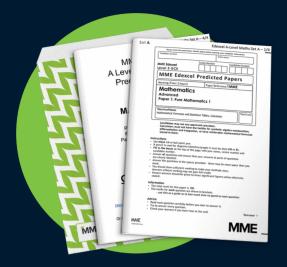
In all calculations, show clearly how you work out your answer.



For Exam	iner'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	
TOTAL	

IB/M/Jun23/E7

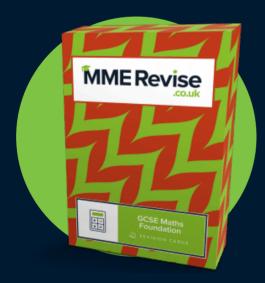
MME GCSE Revision - GCSE Maths



GCSE Maths Predicted Papers 2024



GCSE Maths Revision Guide



GCSE Maths Revision Cards



Course in a Box – GCSE Maths (Guaranteed Pass)



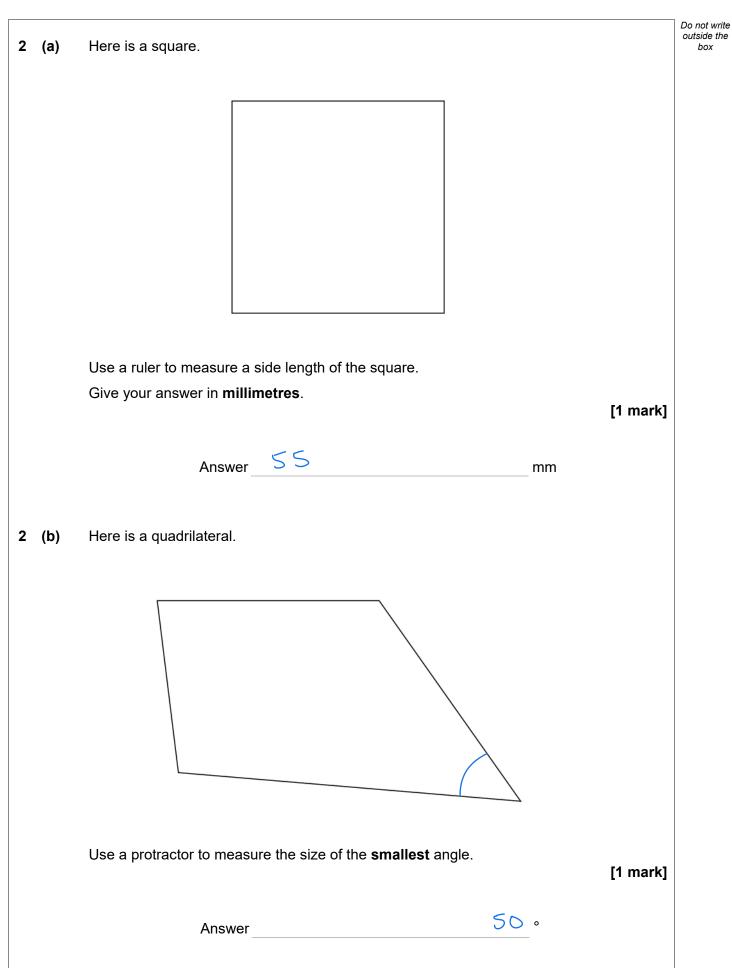
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[1 mark]
[1 mark]



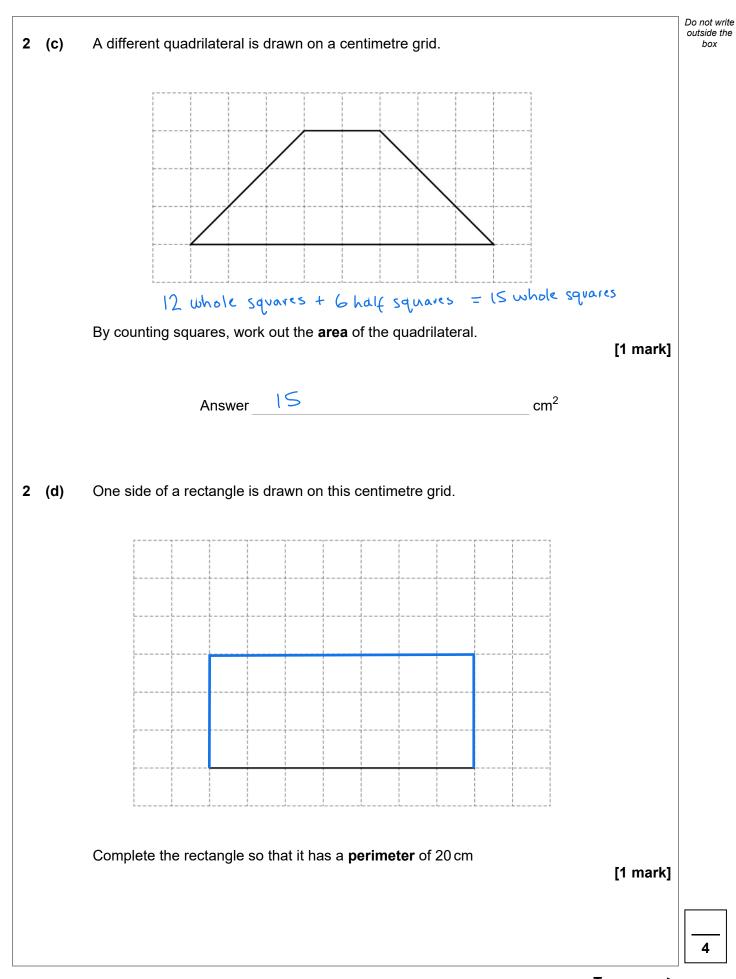
1	(c)	Which two numbers in the list have a total of 43 ?		Do not write outside the box
			[1 mark]	
		Answer <u> </u>		
1	(d)	Work out largest number in the list \div smallest number in the list $45 \div 3 = 15$	[1 mark]	
		Answer 15		
		Turn over for the next question		
				4
			Turn over ►	_







box





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			Do not w outside
3	(a)	Work out $(-4) \times (-3)$	[1 mark]
		Answer 12	
3	(b)	Work out $6 \times (-5)$	[1 mark]
		Answer <u>-30</u>	
3	(c)	Work out $(-8)^2$ $-\% \times -\%$	[1 mark]
		Answer <u>64</u>	
3	(d)	Work out 10^3	[1 mark]
		Answer 1000	

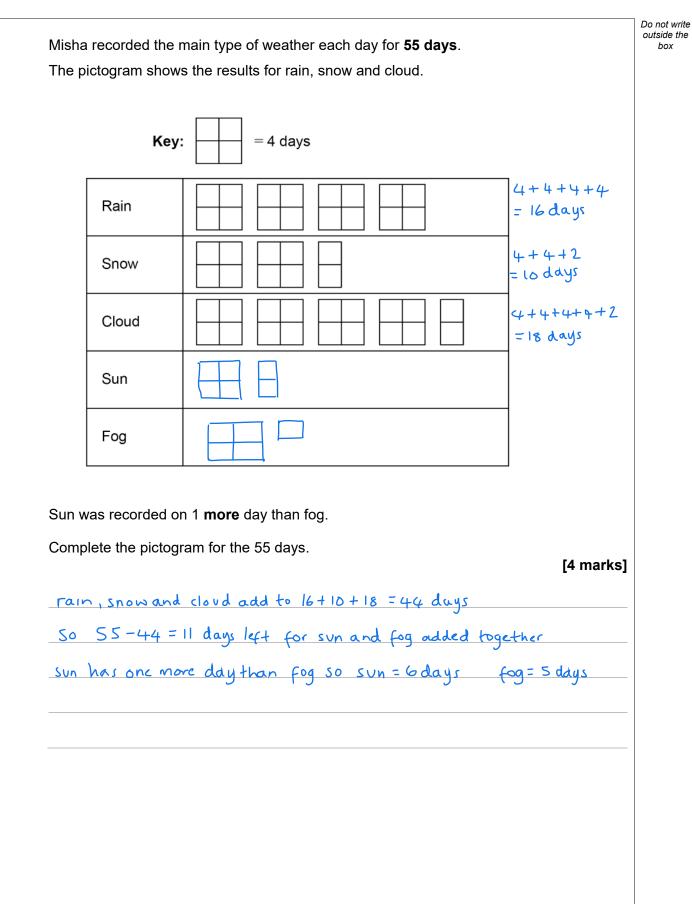


Answer 5	
At a shop	
the normal price of one pen is 24p the normal price of one calculator is £7	
The shop has these special offers.	
Pens	Calculators
Half the normal price£1.50	0 less than the normal price
Work out the total price of 5 pens and 1 calculato <u>Pens</u> new price = $24p \div 2 = 12p$	[4 marks
5 pens cost Sx 12p = 60p	
$\frac{Calculator}{Total: \pm 5.50 \pm 60p} = \pm 6.10$	50 = £5·50
Answer £ 6 · 10	



ere	evise	.co.uk				8		
6	(a)	Write	$3\frac{2}{5}$	as an impropei			[1 mark]	Do not write outside the box
				Answer	<u>17</u> 5		_	
6	(b)	Write	0.19	as a fraction.	19		[1 mark]	
				Answer	100		_	







6

box

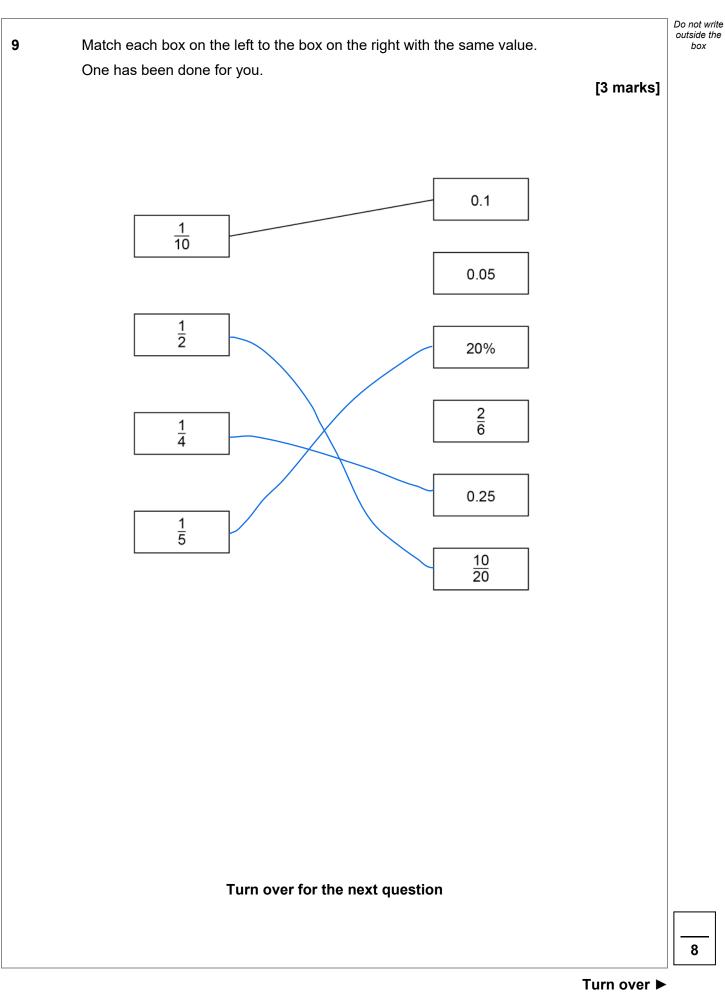
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8
7 = 5P W
8 (a) Work out the value of T when P=4 and W=2 [2 marks]

$$T = 5 \times 4 - 2$$

 $= 20 - 2$
 $= 18$
 $T = -18$
8 (b) Work out the value of P when T=-40 and W=10 [3 marks]
 $+w \int -40 = 5 \times P - 10$
 $\int -50 = 5 \times P$
 $\div 5 \int -6 = P$
 $\downarrow \pm 5$
 $P = -6$

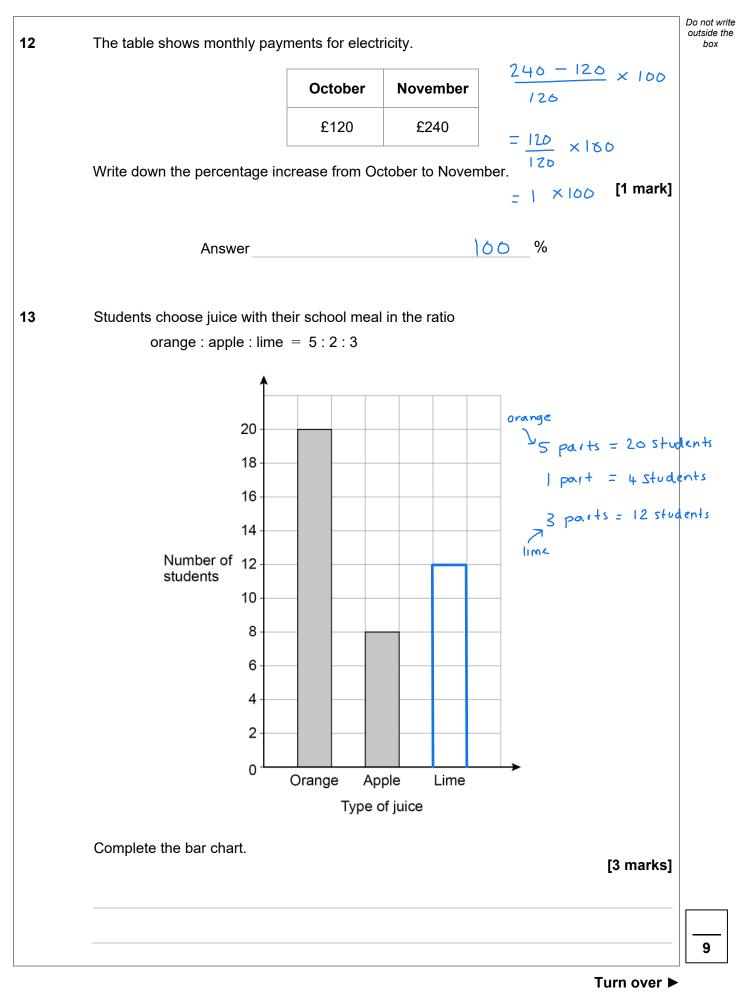






Here are two	calculations	s, A and B.		
	Α	8 × 3 + 2	= 24 + 2 = 26	
	В	21 – (15 – 4)	= 24 + 2 = 26 $= 21 - 11 = 10$	
Work out a	answer to A	× answer to B		[3 marks]
26	, 0×10 =	260		
	Answer	260		
Convert 7 ga	llons to litres	5		
Use 1 gallo				[2 marks]
	רא (ן	gallon = 4-9 gallons = 31.9	5 Litres XX7	45 × 7
				3 5 3
	Apowor	31.5	lit	res
	Answei			

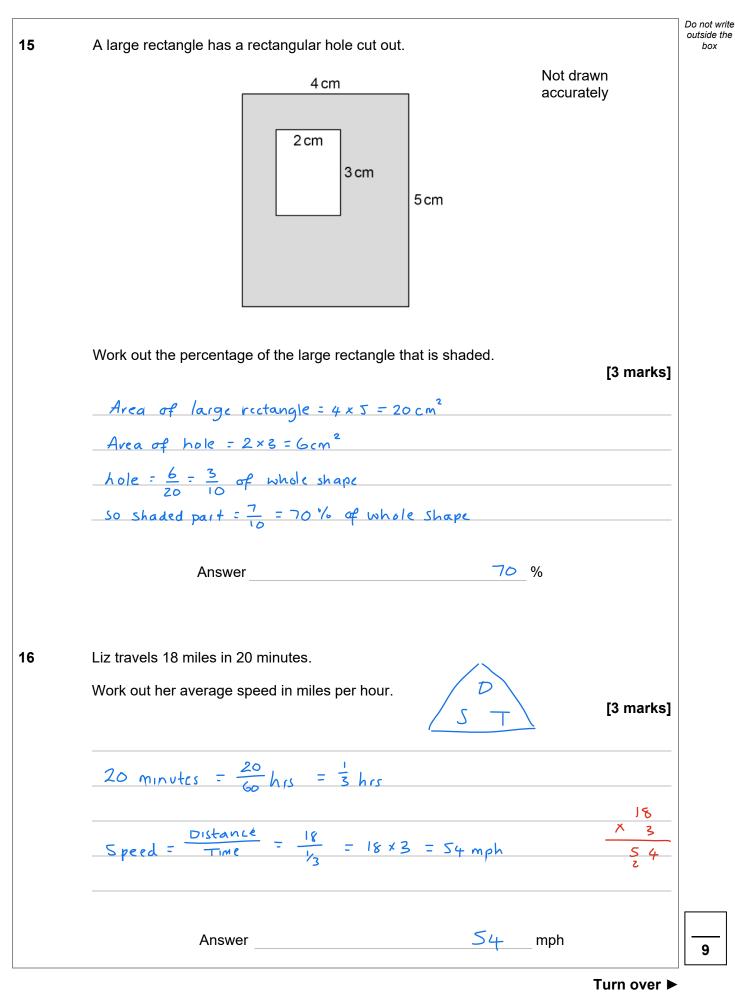




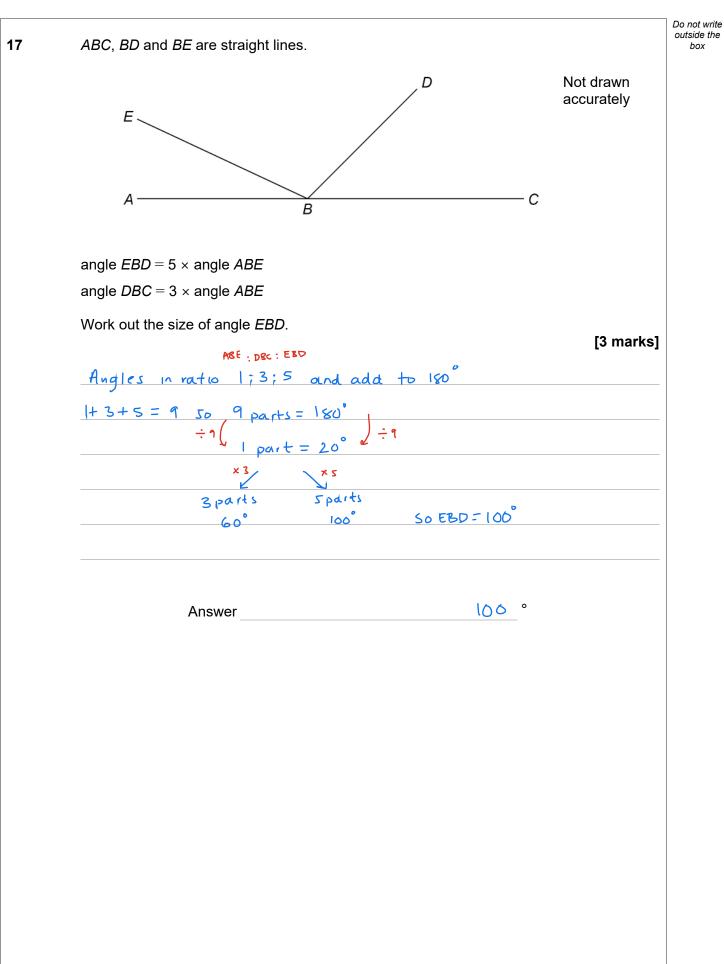


	Percentage of all visitors	Mean number of hours visiting	Range of number of hours visiting	
Members	64	4	6	-
Guests	36	2 ¹ / ₂	8	-
Compare the d Make three cor		with the data for the g	juests.	[3 m
Comparison 1	There were	more members	than guests	[5 m
Comparison 2	Members had	la higher me	an number of h	συτς
Comparison 2	Members had	la higher me	an number of h	adurs.
		La higher mei hours for guest		

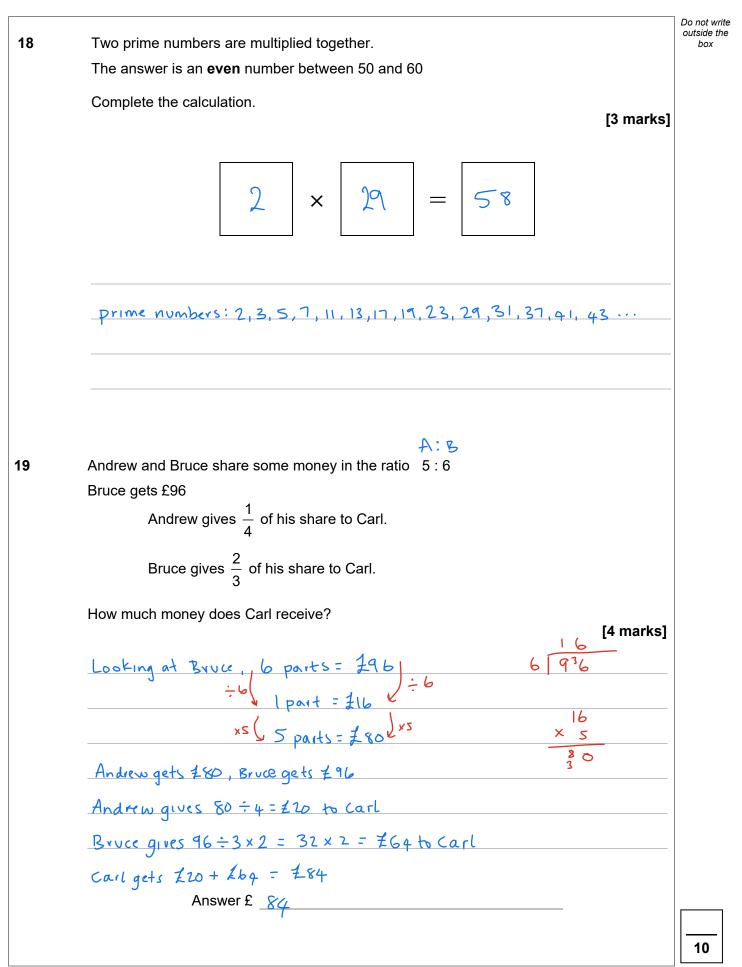




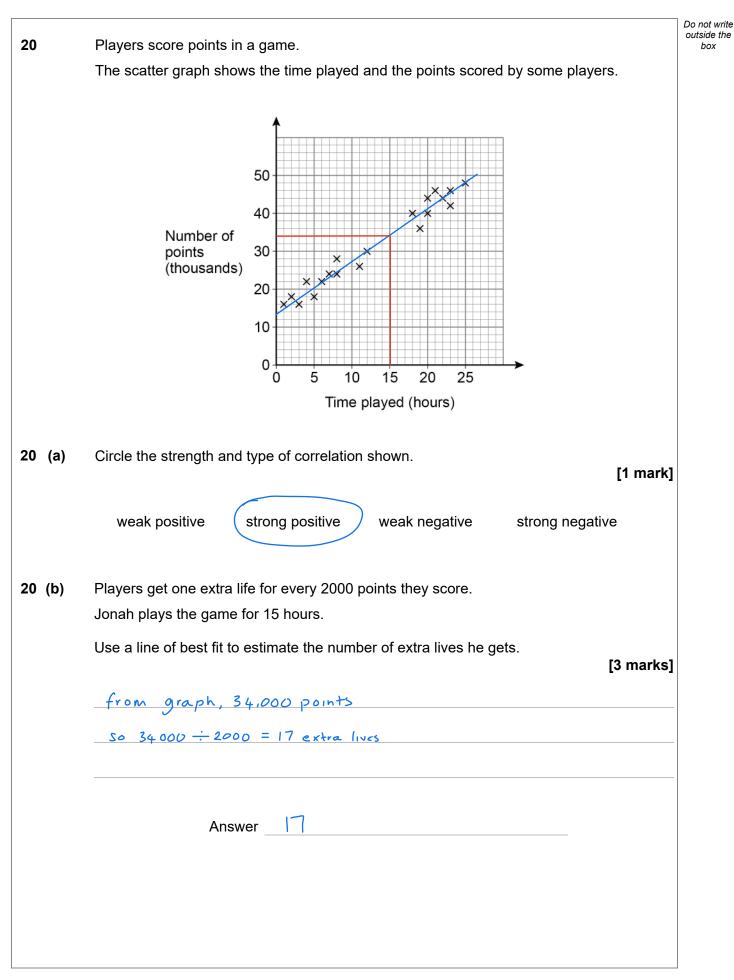








Turn over ►





			Do not writ
21	$2^a \times 3 \times 5^2 = 600$		outside th box
	Work out the value of <i>a</i> .		
	You must show your working.	[2 mented]	
	2 × 3 × 25 = 600	[3 marks]	
	$2^{a} \times 75 = 600$		
	$2^{a} = 600 \div 75$		
	2 [°] = 8		
	$d = 3$ $2^3 = 2 \times 2 \times 2 = 8$		
	<i>a</i> = 3		
22	Expand and simplify fully $5(3x+4) - 2(x-1)$	[2 marka]	
		[2 marks]	
	13x +22		
	Answer 37C + 22	-	
			9



Do not write outside the $y = \frac{1}{x}$ with $x \neq 0$ Erika tries to sketch the graph 23 y 🖡 0 x Make two different criticisms of her sketch. [2 marks] Passes through point where x=0 Criticism 1 (says in question x + 0) Criticism 2 Incorrect for negative x values shape of graph should be



box

24	Sunita is <i>x</i> years old.		Do not write outside the box
27	Beth is one year younger than Sunita. $\alpha \sim 1$		
	Joel is double Sunita's age. 2 🗴		
	The mean of their ages is 5		
	How old is Joel ?		
		[5 marks]	
	3 people so total of their ages is 5×3 = 15 years		
	• • •		
	Adding their ages, $\chi + \chi - 1 + 2\chi = 15$		
	$\frac{4x-1}{5}$		
	4x = 16		
	x=4		
	Joelis 2x years old, so 2x4 = 8		
	Answer <u>8 years old</u>		
	The second second		
	Turn over for the next question		
			7

Turn over ►

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Give your answer as a mixed number. $\frac{7}{3} \div \frac{4}{5}$ $= \frac{7}{3} \times \frac{5}{4}$ $= \frac{35}{12}$ $= 2 \frac{11}{12}$ Answer $2\frac{11}{12}$	Work out $2\frac{1}{3} \div \frac{4}{5}$	
$= \frac{7}{5} \times \frac{5}{4}$ $= \frac{35}{12}$ $= 2 \frac{11}{12}$	Give your answer as a mixed number.	[4 marks]
$= \frac{7}{5} \times \frac{5}{4}$ $= \frac{35}{12}$ $= 2 \frac{11}{12}$	<u> </u>	
$= \frac{35}{12}$ = $2\frac{11}{12}$		
$= \frac{35}{12}$ = $2\frac{11}{12}$	$=\frac{7}{5} \times \frac{5}{4}$	
$= 2 \frac{11}{12}$		
	$=\frac{35}{12}$	
Answer <u>211</u>	$=2\frac{11}{12}$	
Answer <u>211</u>		
Answer _ 2 1/12		
	Answer $2\frac{11}{12}$	
END OF QUESTIONS	END OF QUESTIONS	

