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

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 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 TOTAL

IB/M/Jun23/E7



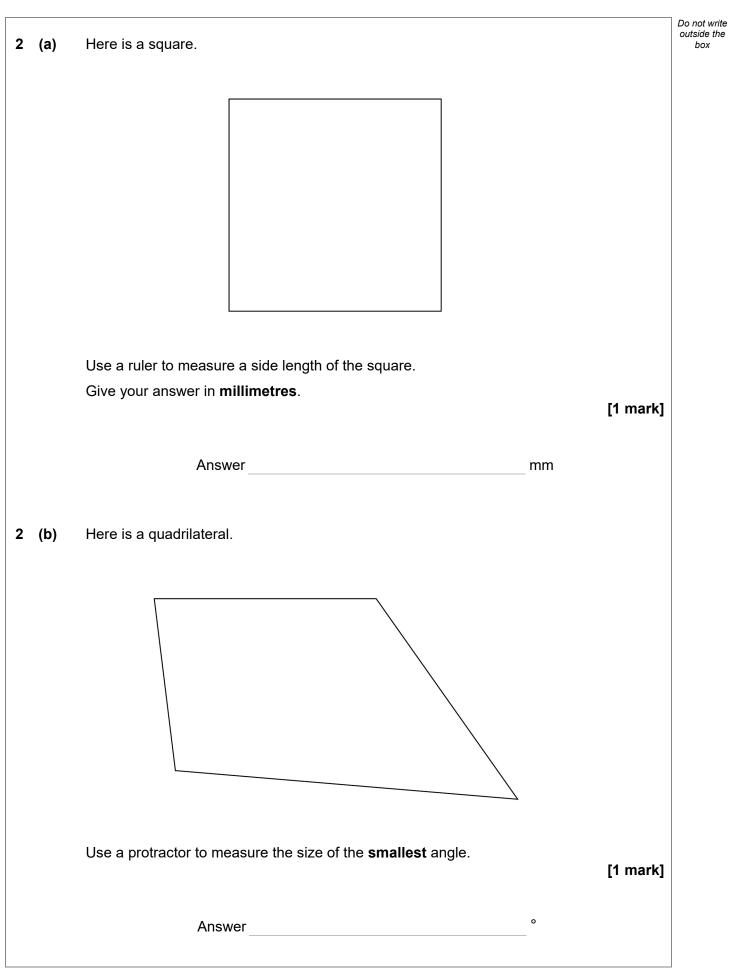
Morning

	Answer all questions in the spaces provided.						Do not outsid bo				
1		Here is a list of	f numl	bers.							
			14	9	20	29	3	45	33		
1	(a)	Which number	in the	e list is a	a multiple	e of 4 ?				[1 mark]	
			Ans	wer							
1	(b)	Which number	in the	e list is a	a square	number	?			[1 mark]	
			Ans	wer							

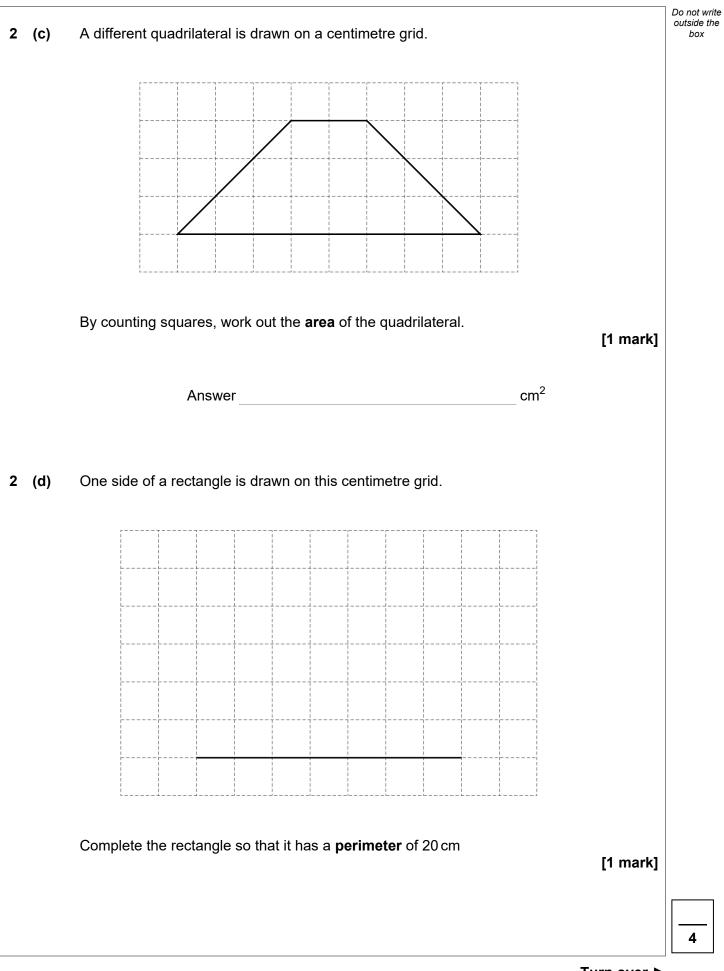


			Turn over ►	
				4
		Turn over for the next question		
		Answer		
1	(d)	Work out largest number in the list ÷ smallest number in the list	[1 mark]	
		Answer and	-	
1	(c)	Which two numbers in the list have a total of 43 ?	[1 mark]	Do not writ outside the box











3	(a)	Work out	(-4) × (-3)	[1 mark]	Do not write outside the box
			Answer		
3	(b)	Work out	6 × (–5)	[1 mark]	
			Answer		
3	(c)	Work out	(-8) ²	[1 mark]	
			Answer		
3	(d)	Work out	10 ³	[1 mark]	
			Answer		

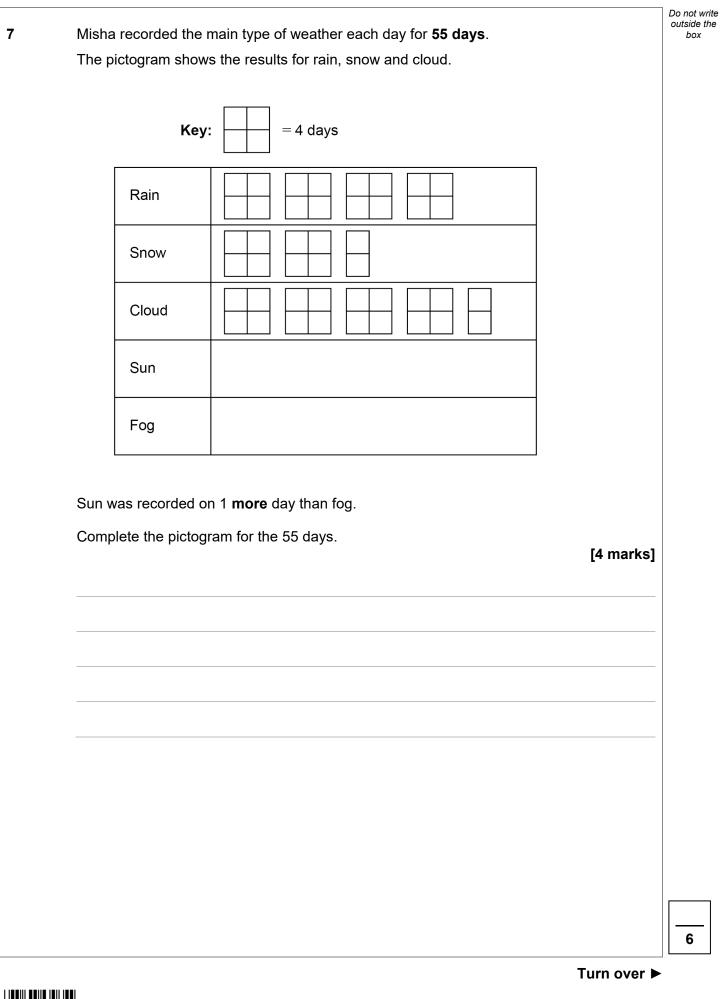


Wr	ite 18 out of 30	as a fraction in i	ts simplest form.	[2 marks]
	Ans	wer		
At	a shop			
	the normal p	price of one pen is	24p	
		price of one calcula	ator is £7	
The	e shop has these s	pecial offers.		
	Pens		Calculators	
	Half the norma	al price	£1.50 less than the normal price	
Wo	ork out the total pri	ce of 5 pens and 1	l calculator using the special offers.	[4 marks]
				[+ marks]



6	(a)	Write $3\frac{2}{5}$ as an improper fraction.		Do not write outside the box
		5	[1 mark]	
		Answer		
6	(b)	Write 0.19 as a fraction.		
•	(~)		[1 mark]	
		Answer		



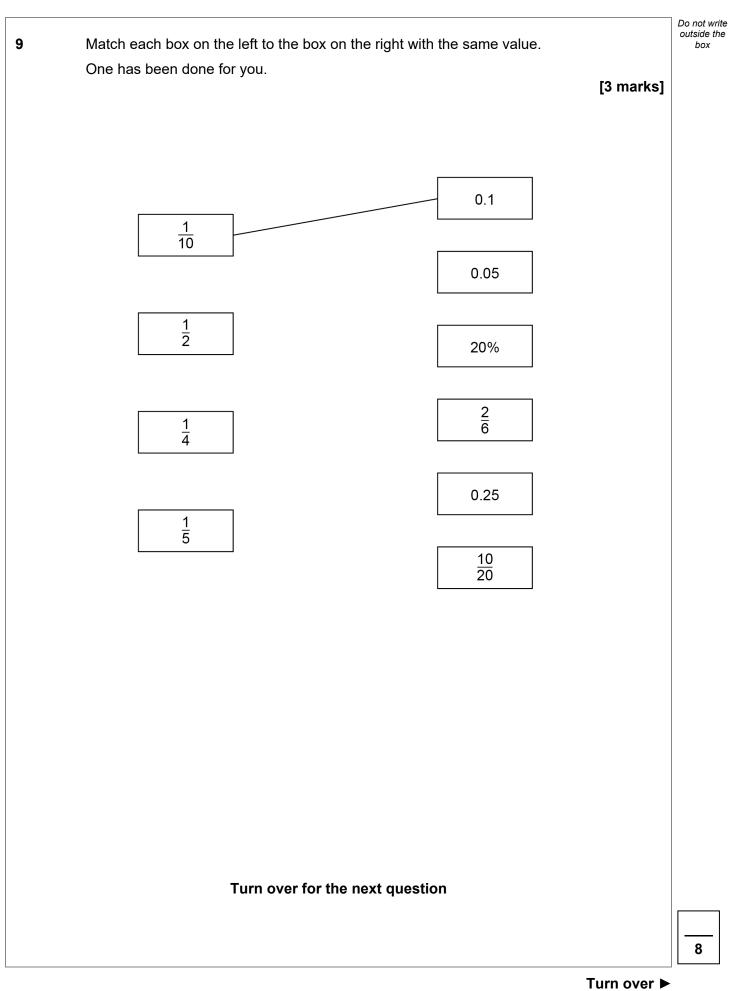




8

$$T=5P-W$$
 Becaution for both the both t

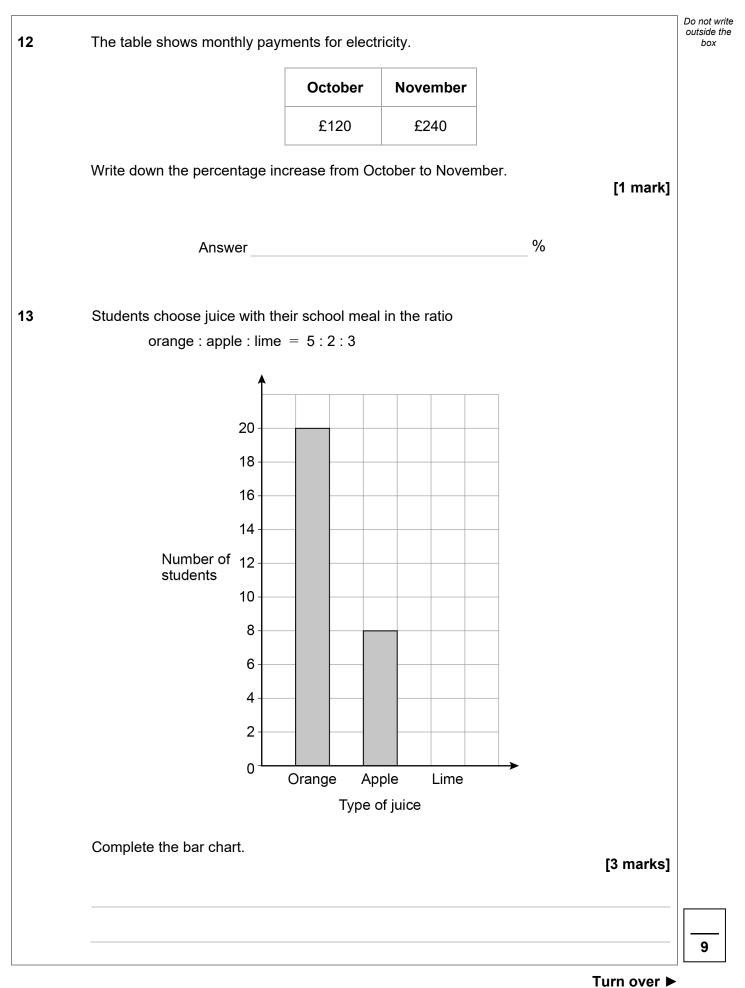






10	Here are two calcula	ations	, A and B.		Do not write outside the box
		Α	8 × 3 + 2		
		В	21 - (15 - 4)		
	Work out answer	to A :	< answer to B	[3 marks]	
	Ar	nswer			
11	Convert 7 gallons to	litres			
	Use 1 gallon $= 4.8$			[2 marks]	
	Ansv	wer		litres	





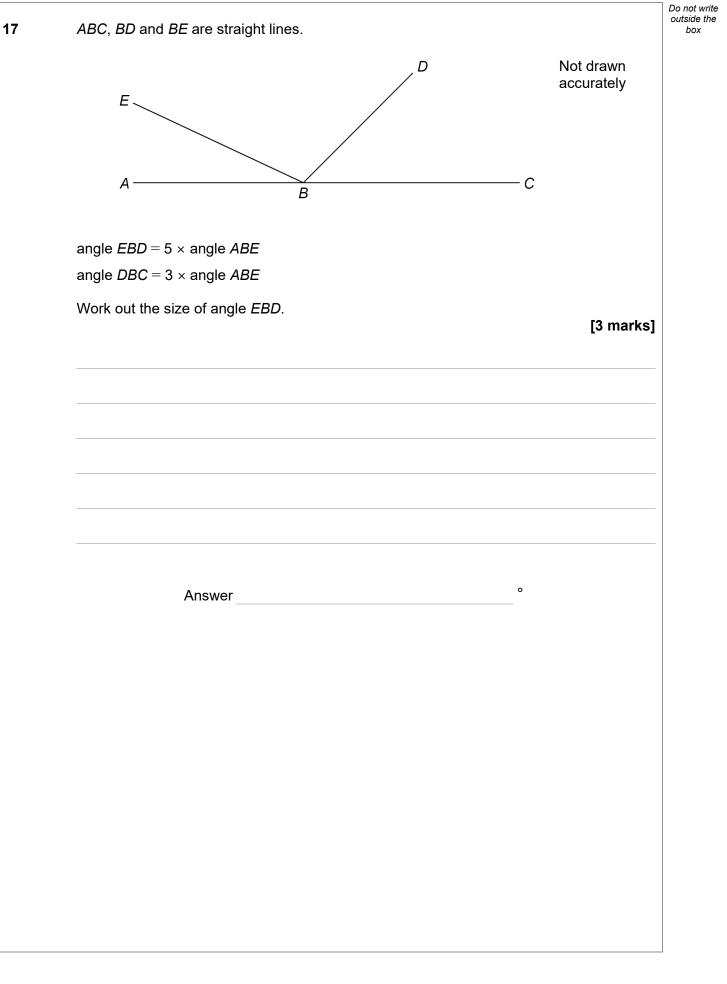


	Percentage of all visitors	Mean number of hours visiting	Range of number of hours visiting	
Members	64	4	6	
Guests	36	$2\frac{1}{2}$	8	
Make three cor	mparisons.	with the data for the g		[3 marks
Comparison 2				
Comparison 3				



15	A large rectangle has a rectangular hole cut out.		Do not write outside the box
	4 cm 2 cm 3 cm 5 cm	Not drawn accurately	
	Work out the percentage of the large rectangle that is shaded.	[3 marks]	
	Answer	%	
16	Liz travels 18 miles in 20 minutes.		
	Work out her average speed in miles per hour.	[3 marks]	
	Answer	mph	9
		Turn over ►	

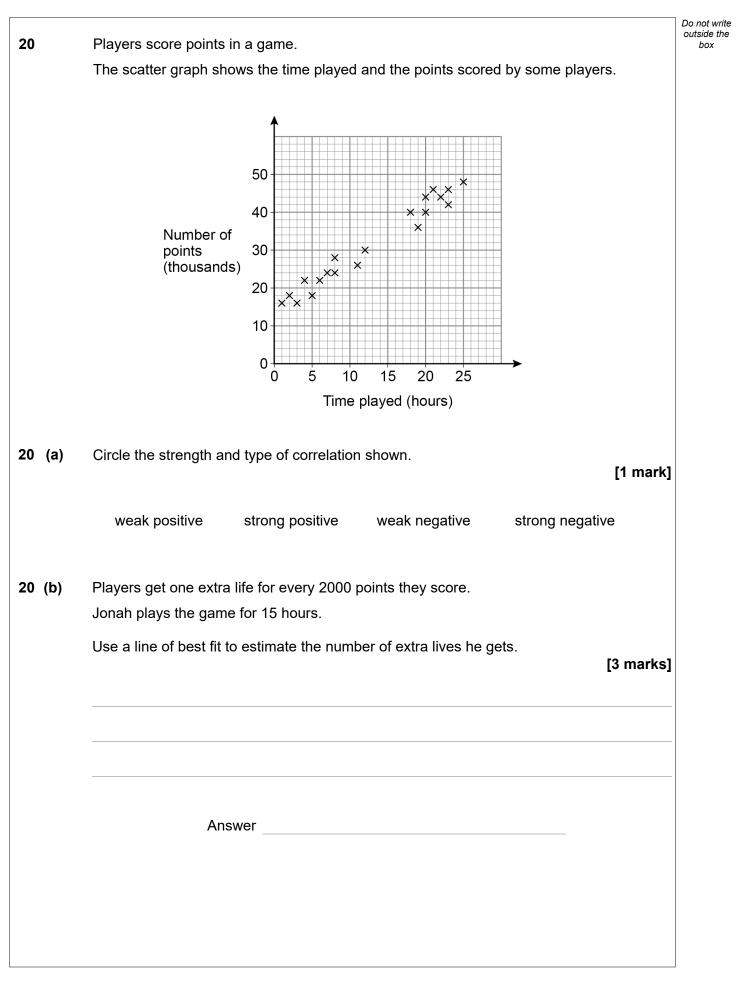






Two prime numbers are multiplied together. The answer is an even number between 50 and 60	Do no outsic bo
Complete the calculation. [3 marks]	
Andrew and Bruce share some money in the ratio 5 : 6 Bruce gets £96 Andrew gives $\frac{1}{4}$ of his share to Carl.	
Bruce gives $\frac{2}{3}$ of his share to Carl.	
Bruce gives $\frac{2}{3}$ of his share to Carl. How much money does Carl receive? [4 marks]	
How much money does Carl receive?	

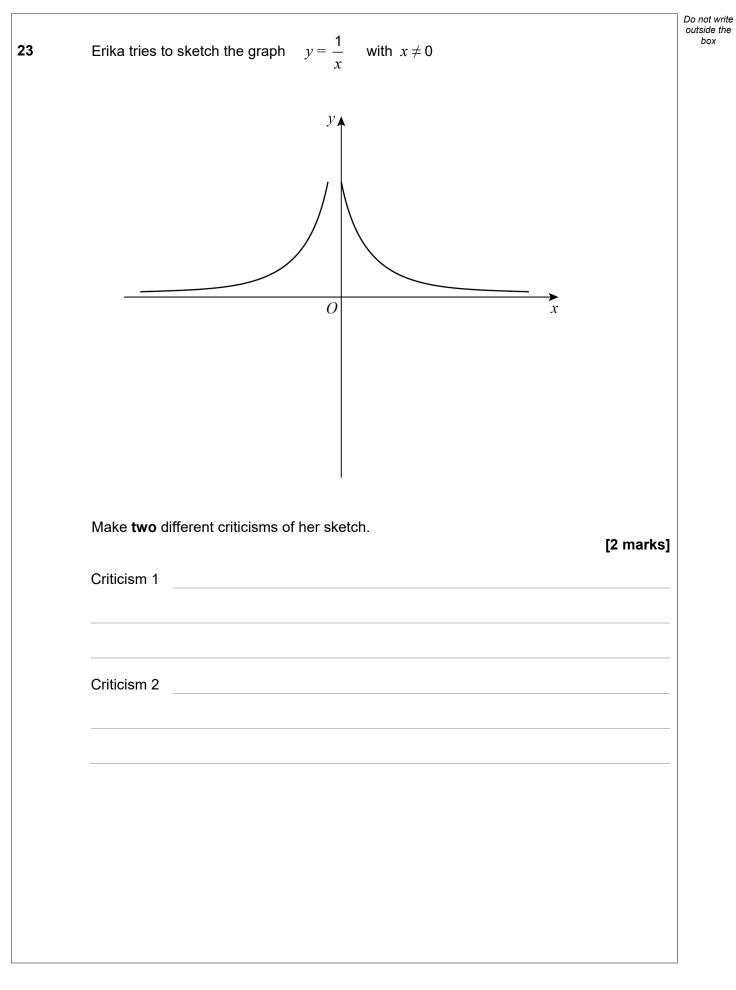






	oʻʻ o z ² ooo		Do not write outside the box
21	$2^a \times 3 \times 5^2 = 600$		
	Work out the value of <i>a</i> . You must show your working.		
	Tou must show your working.	[3 marks]	
	<i>a</i> =		
22	Expand and simplify fully $5(3x+4) - 2(x-1)$	[2 marks]	
	Answer		
			9





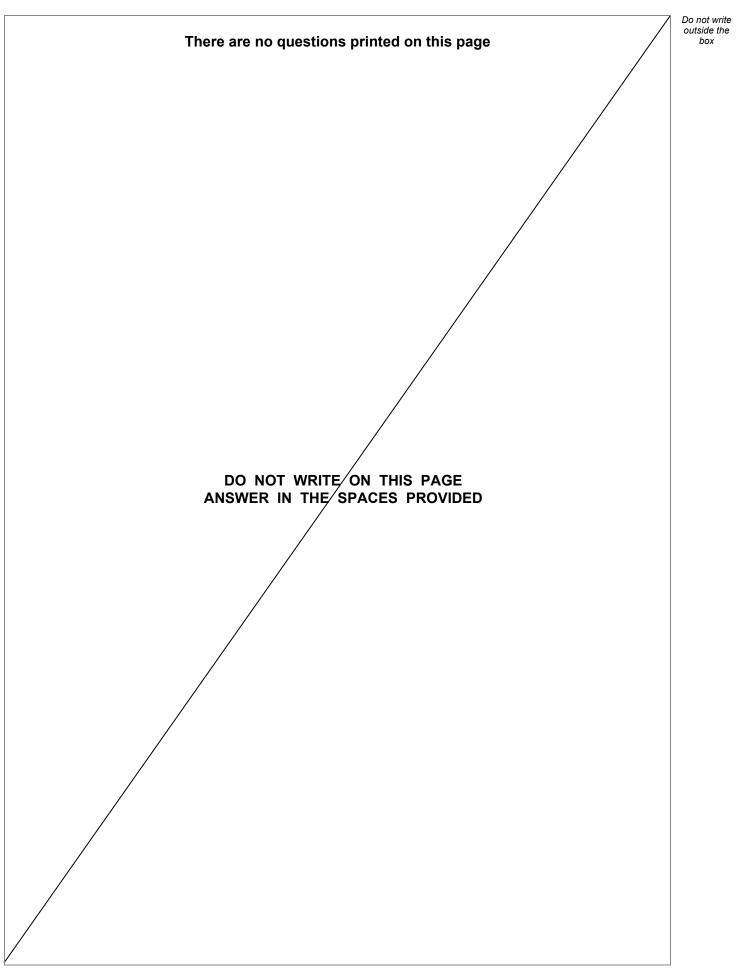


24	Sunita is <i>x</i> years old.		Do not write outside the box
	Beth is one year younger than Sunita.		
	Joel is double Sunita's age.		
	The mean of their ages is 5		
	How old is Joel ?		
		[5 marks]	
	Answer		
	Turn over for the next question		
			7



Work out $2\frac{1}{3} \div \frac{4}{5}$		
Give your answer as a mix	ed number.	[4 marks]
Answer		
	END OF QUESTIONS	







Question number	Additional page, if required. Write the question numbers in the left-hand margin.



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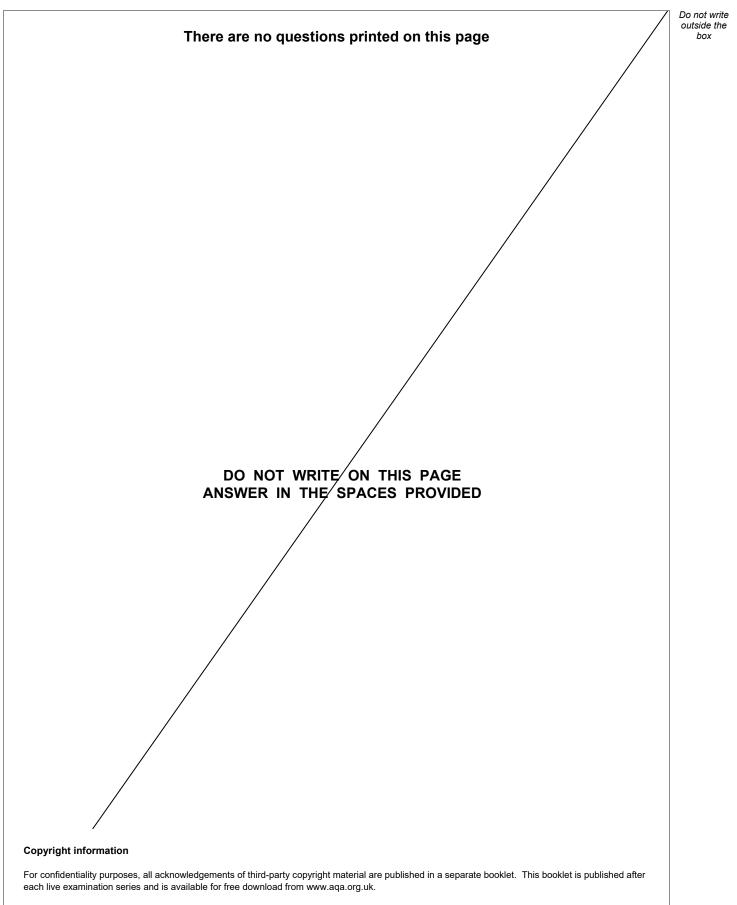


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