

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

Functional Skills Level 1 MATHEMATICS

Paper 2 Calculator

Time allowed: 1 hour 30 minutes

Materials

For this paper you must have:

- a calculator
- mathematical instruments.

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.
- 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.
- State the units of your answer where appropriate.

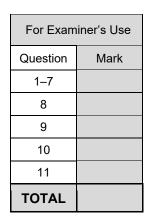
Information

- The marks for questions are shown in brackets.
- The maximum mark for this paper is 60.
- You may ask for more answer paper, graph paper and tracing paper. These must be tagged securely to this answer book.

Advice

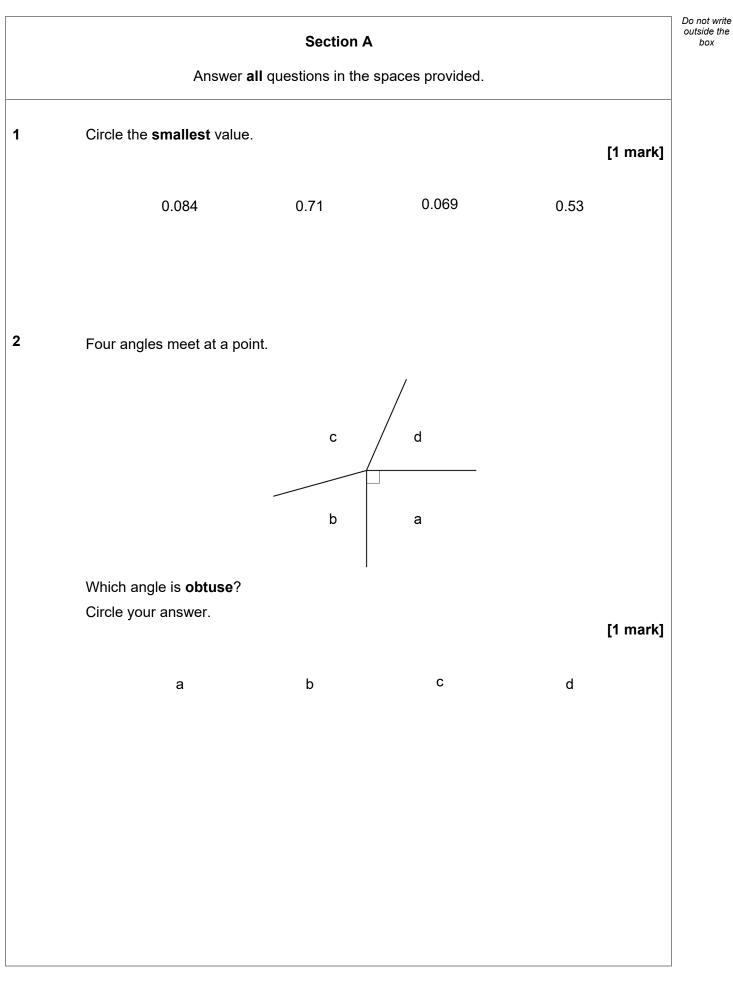
In all calculations, show clearly how you work out your answer.





8361/2 QAN 603/4257/2

IB/M/Jan22/E8





3	Convert 3.2 litres to millilitres.	[1 mark]
	Answer	millilitres
4	A fair, ordinary dice is rolled. Write down the probability of rolling the number 3	[1 mark]
5	Answer	
	1 cm represents 8 km What does a length of 2.5 cm represent?	[2 marks]
	Answer	



Turn over ►

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Here are si	x values.							outside th box
	10	6	4	12	5	17		
Work out th	ne mean.							
							[3 marks]	
	Ansv	ver						
Decrease 1	600 by 20	%						
20010400	2000 29 20	70					[3 marks]	
	Ansu	ver						12
	AIISV	ver						



		Section B		
		Answer all questions in the sp	aces provided.	
	Holiday to Portu	ugal		
	Sally is booking	a family holiday to Portugal.		
(a)	The table shows	the cost of flights and villa ren	tal.	
		Flights	£872	
		Villa rental	£1980	
	Sally will also hir	e a car.		
		Hire $cost = $ £130 + £35 ×	number of days hired	
	Sally has £3500	to pay for flights, villa rental an	nd car hire	
		enough to hire a car for 14 days		
	Does she have e	chough to this a ball for 14 days	5.	
	You must show	your working.		
	You must show	your working.		[4 marks]
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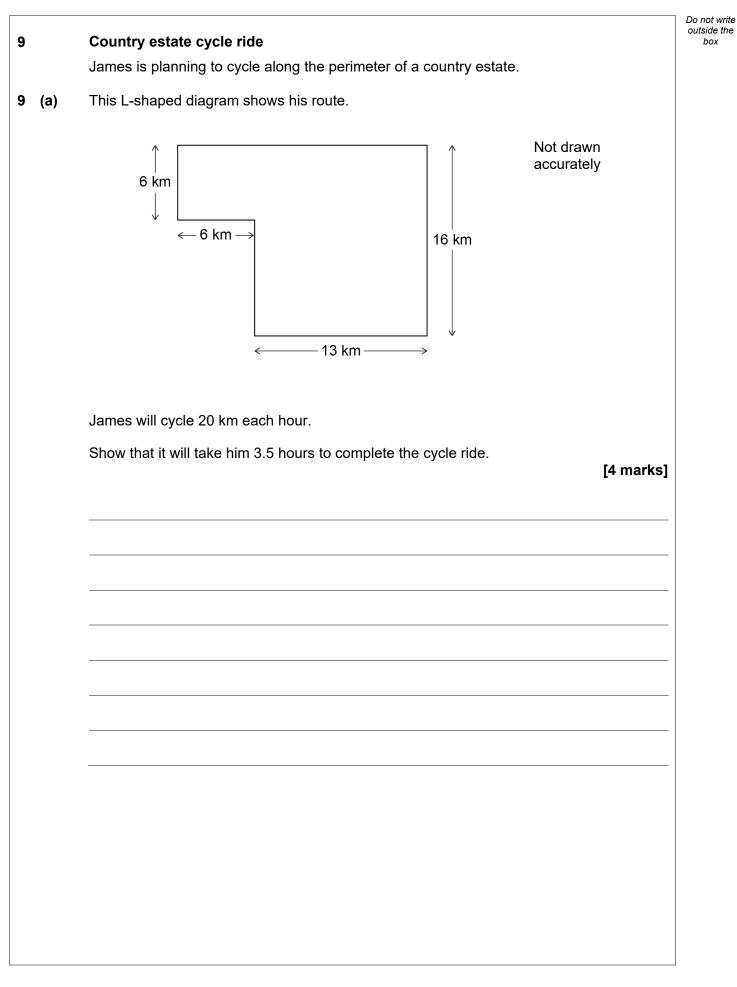
(b)	The holiday is for 14 days.		Do n outs t
(6)	Sally wants to have 200 euros spending money per day .		
	She already has 192 euros left from another holiday.		
	The exchange rate is $\pounds 1 = 1.16$ euros		
	She says,		
	"Changing £2200 into euros will be enough."		
	Is she correct?		
	You must show your working.		
		[3 marks]	



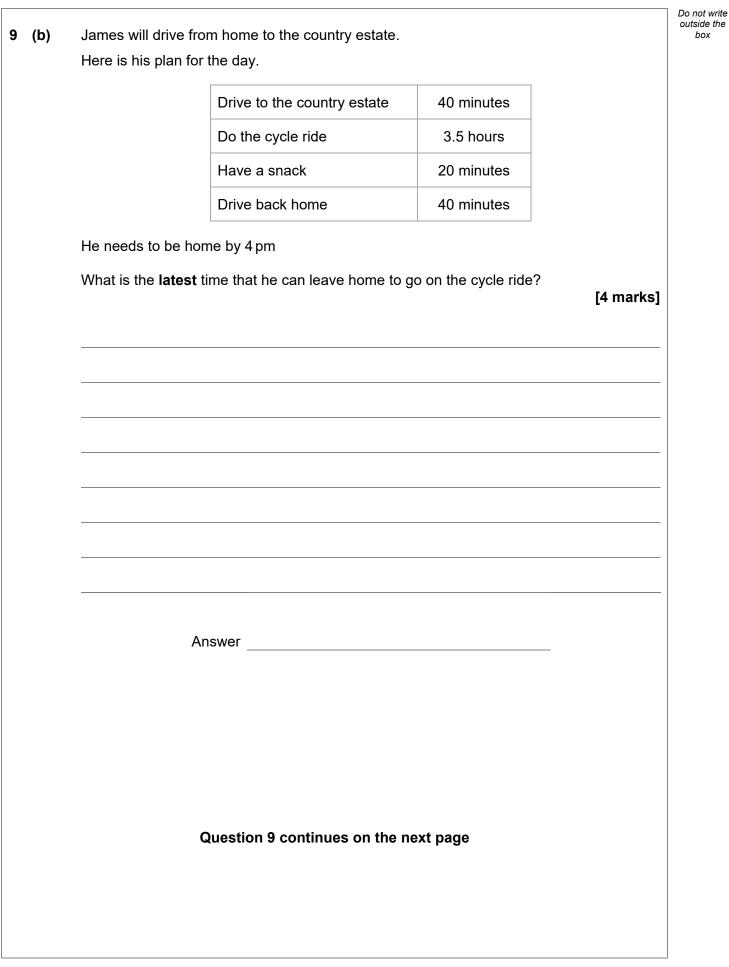
Do not write outside the 8 (c) box The family have to travel to the UK airport at the start of the holiday. At the end of the holiday, they have to travel from the UK airport to their home. They can travel by taxi or drive. Taxi Drive The airport is 98 miles from home Total cost £145 Petrol 15 pence per mile Parking £85 How much cheaper is it to drive than travel by taxi? [4 marks] 11 Answer £ Turn over for the next question



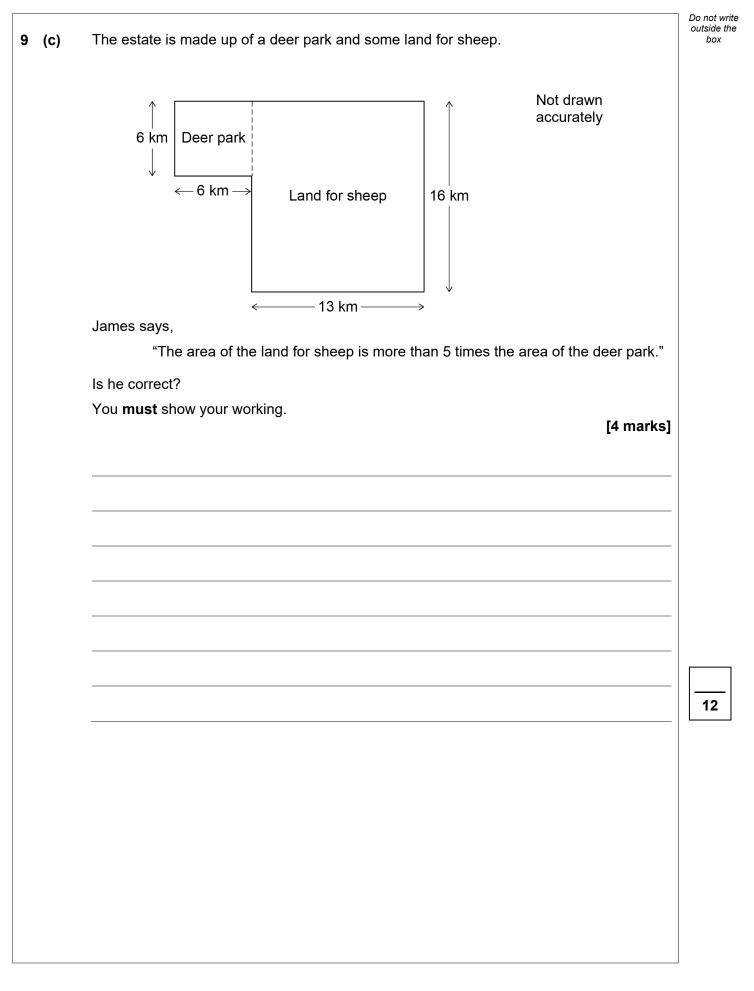
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Do not write outside the 10 Clothes company — making badges A clothes company makes school uniforms. They use a machine to make badges for blazers. The machine usually makes 5000 badges per day. 10 (a) One day, the machine makes 5000 badges. 2 of the badges are faulty. The manager says, "The probability that a badge is faulty is $\frac{1}{250}$ " Is he correct? You **must** show your working. [2 marks] Question 10 continues on the next page Turn over ►



10 (b) One week, the machine broke down on Wednesday.

The machine only made 1400 badges that day.

The machine still produced 25 000 badges that week.

It produced the **same** number on Thursday as on Friday.

Complete the table.

[3 marks]

Monday	Tuesday	Wednesday	Thursday	Friday	TOTAL
5000	5000	1400			25000



The table shows the costs of making 5000 badges.					
	Materials	17p per badge			
	Other costs	£265			
The company	wants to make at least	40% profit on the costs.			
Work out the	minimum price the comp	any should charge per badg	e.		
Give your ans	swer in pence.		[6 marks]		
	Answer		pence		



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11	Hotel	work

Aisha works part-time in a hotel.

11 (a) Aisha is paid an hourly rate of £8.85 for working any day from Monday to Saturday.She is paid double this hourly rate for each hour worked on Sunday.

Aisha wants her pay to be at least £230 next week.

Here are the hours she will work from Monday to Saturday.

Monday	5 hours
Thursday	4 hours
Saturday	7 hours

Work out the minimum number of hours she needs to work on Sunday. You **must** show your working.

Answer

[6 marks]

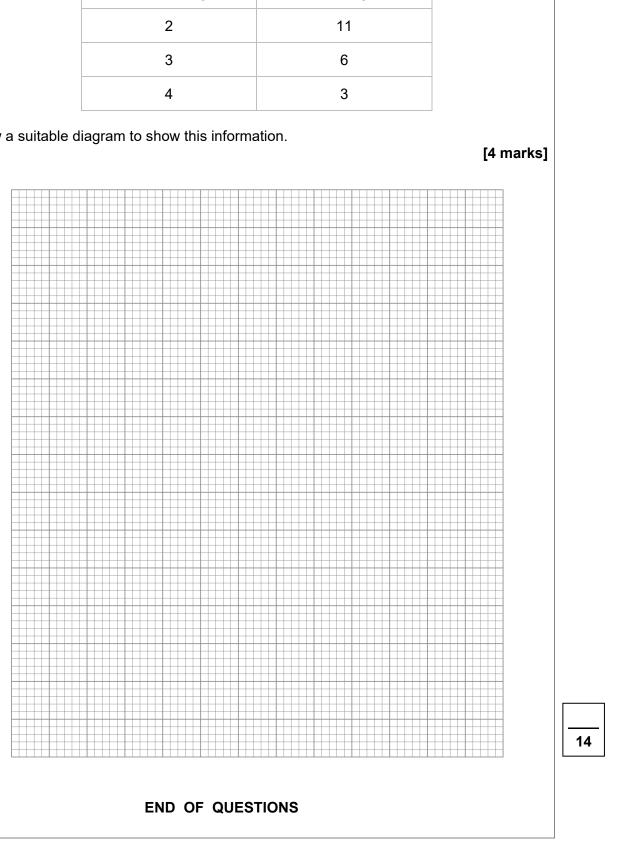
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11 (b)	Aisha often receives tips from customers.	outside the box
	One month she receives £72.90 in tips.	
	She spends	
	half of the £72.90 on clothes	
	one fifth of the £72.90 on make-up.	
	She saves the rest.	
	Work out how much she saves.	
	[4 marks]	
	Answer £	
	Question 11 continues on the next page	
	Question in continues on the next page	



Turn over 🕨



The hotel manager wants to know how many nights the guests stay in the hotel. 11 (c) Aisha collects this information about 20 guests.

> Number of nights Number of guests

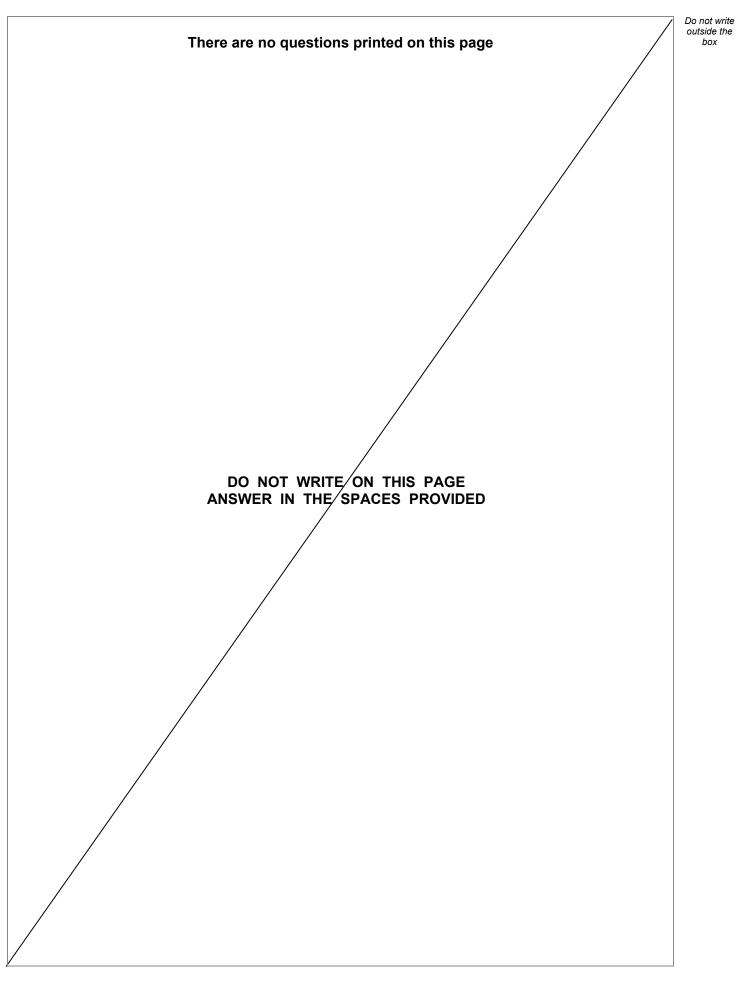
Draw a suitable diagram to show this information.



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16





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