

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

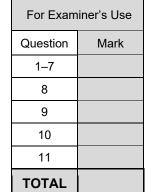
- Use black ink or black ball-point pen. Draw diagrams in pencil.
- Answer all questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- If you need extra space for your answer(s), use the lined pages at the end of this book. 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.





Section A

Answer all questions in the spaces provided.

1 Circle the **smallest** value.

[1 mark]

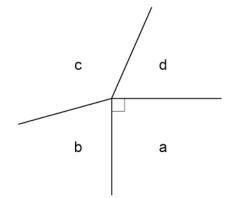
0.084

0.71

0.069

0.53

2 Four angles meet at a point.



Which angle is **obtuse**?

Circle your answer.

[1 mark]

а

b

С

d



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]
	Answer	
5	Here is a scale.	
	1 cm represents 8 km What does a length of 2.5 cm represent?	[2 marks]
	Answer	

Turn over ▶



Do not write

Here are	six values.						
	10	6	4	12	5	17	
Work out	the mean.						[3 marks]
							to marke
	Ansv	ver					
		0/					
Decrease	1600 by 20'	%					
Decrease	1600 by 20	% 0					[3 marks]
Decrease	1600 by 20 ⁰	7 0					[3 marks]
Decrease	1600 by 20 ⁶	9 6					[3 marks]
Decrease	1600 by 20 ⁶	7 6					[3 marks]
Decrease	1600 by 20 ⁶	7 0					[3 marks]
Decrease	1600 by 20 ⁶	7 0					[3 marks]
Decrease	1600 by 20 ⁶	96					[3 marks]



Section B

Answer all questions in the spaces provided.

8 Holiday to Portugal

Sally is booking a family holiday to Portugal.

8 (a) The table shows the cost of flights and villa rental.

Flights	£872
Villa rental	£1980

Sally will also hire a car.

Hire cost = £130 + £35 \times number of days hired

Sally has £3500 to pay for flights, villa rental and car hire.

Does she have enough to hire a car for 14 days?

You must show your working.

[4 marks]

Question 8 continues on the next page

Turn over ▶



8	(b)	The holiday is for 14 days.
		Sally wants to have 200 euros spending money per day .
		She already has 192 euros left from another holiday.
		The exchange rate is £1 = 1.16 euros
		She says,
		"Changing £2200 into euros will be enough."
		Is she correct?
		You must show your working.
		[3 marks]



11

8 (c) 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
Total cost £145	The airport is 98 miles from home Petrol 15 pence per mile Parking £85

How much cheaper is it to drive than travel by taxi?	[4 marks]

Turn over for the next question

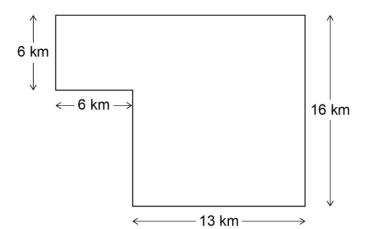
Answer £

Turn over ▶

9	Country	estate	cvcle	ride

James is planning to cycle along the perimeter of a country estate.

9 (a) This L-shaped diagram shows his route.



Not drawn accurately

James will cycle 20 km each hour.

Show that it will take him 3.5 hours to complete the cycle ride.

[4 marks]



9 (b)	James will drive from home to the country estate.	outside the
	Here is his plan for the day.	

Drive to the country estate	40 minutes
Do the cycle ride	3.5 hours
Have a snack	20 minutes
Drive back home	40 minutes

He needs to be home by 4 pm

What is the latest time that he can leave home to go on the cycle ride?	[4 marks]
Answer	

Question 9 continues on the next page



9	(c)	The estate is made up of a deer park and some land for sheep.	
		0 km Deer park ← 6 km → Land for sheep 16 km	
		12 km	
		←─── 13 km ───── James says,	
		"The area of the land for sheep is more than 5 times the area of the deer park."	
		Is he correct?	
		You must show your working. [4 marks]	
			•



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



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			25 000



10 (c) The table shows the costs of making 5000 badges	3.
---	----

Answer

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 company should charge per badge.

Give your answer in pence.

[6 marks]

| -

pence



11	Hotel work				
	Aisha works part-tin				
11 (a)	Aisha is paid an hou She is paid double t	-		-	urday.
				on Sunday.	
	Aisha wants her pay				
	Here are the hours	sne will work from I	vionday to Saturda	y.	
		Monday	5 hours		
		Thursday	4 hours		
		Saturday	7 hours		
	Work out the minimu		s she needs to wo	rk on Sunday.	
	You must show you	ir working.			[6 marks]
	An	swer			



l (b)	Aisha often receives tips from customers. 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	



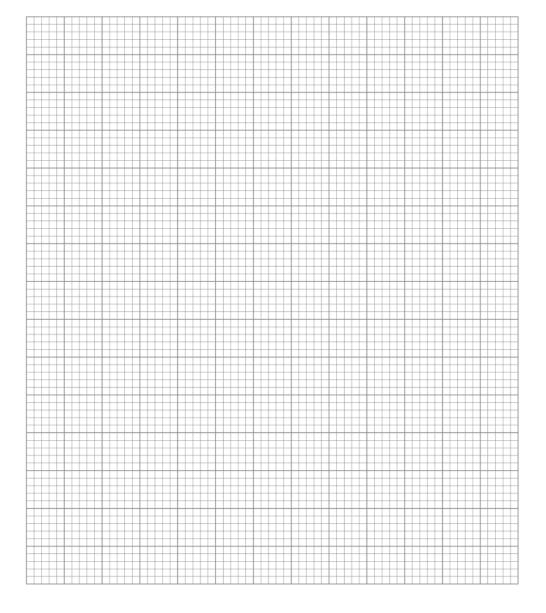
11 (c) The hotel manager wants to know how many nights the guests stay in the hotel.

Aisha collects this information about 20 guests.

Number of nights	Number of guests
2	11
3	6
4	3

Draw a suitable diagram to show this information.

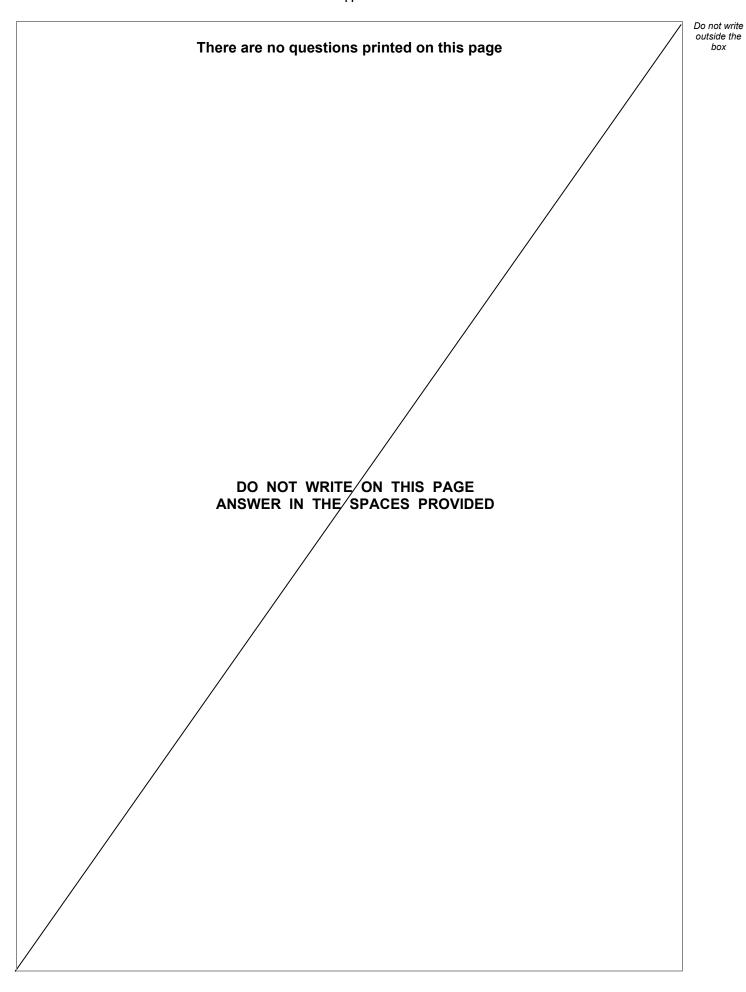
[4 marks]



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END OF QUESTIONS







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



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



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