

Please write clearly in	า 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

Tuesday 28 February 2023

Afternoon 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	Α
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Answer all questions in the spaces provided.

1 A fair, ordinary dice is rolled.

Circle the probability of rolling the number 4

[1 mark]

$$\frac{1}{4}$$

$$\frac{1}{2}$$

[1 mark]

Answer	metres

3 You are facing North East.

You turn clockwise to face South East.

Write down the angle of turn.

[1 mark]

Answer _____



Work out	76 ² – 47 ²			[2
	Answer			
Write these	ractions in order o	f size, starting wi	th the largest .	[2
	$\frac{2}{3}$	$\frac{3}{5}$	<u>5</u> 8	
	Answer	,	,	-

Turn over ▶



Do not write outside the box

6	Work out the range of these numbers.						[2 marks]		
		20	15	9	10	26	14	18	
		Answer							



7	Here is an L-shape.		
	10 cm 9 cm 7 cm 5 cm	Not drawn accurately	
	Work out the area of the L-shape.	[3 marks]	
	Answercm ²		

Turn over ▶



Section B

Answer all questions in the spaces provided.

8 Building Company

8 (a) Kim works as a tiler for a building company.

She is paid a normal hourly rate of £26.50 from Monday to Friday.

She is paid **double** the normal hourly rate on Saturday.

She does not work on Sunday.

In total, Kim was paid £1060 that week.

Here are the hours she worked from Monday to Friday one week.

Day	Number of hours
Monday	6
Tuesday	6
Wednesday	7.5
Thursday	7.5
Friday	6
Saturday	

How many hours did she work on Saturday?

[6 marks]

Answer _____

hours



8 (b)	The company uses this formula to work out the charge for a job.	
	Charge = £45 plus £28 per hour the job takes	
	The job will take 11 hours.	
	Will the charge be less than £350?	
	You must show your working.	[3 marks]
		[3 marks]
	Question 8 continues on the next page	

Turn over ▶



8 (c) The diagram shows how much petrol is in the tank of Kim's	van.
--	------



Kim takes the van to the petrol station to fill the tank.

The tank holds 64 litres when full.

Petrol costs £1.45 per litre.

Kim has £70 to pay for the petrol.

Does she have enough money to fill the tank with petrol? You **must** show your working.



13

[4 marks]

9	Cycling			
	Talik likes cycling.			
9 (a)	Talik wants to buy a new bike.			
- ()	There are two ways he can pay	for the bike.		
			1	
		Road bike		
		000		
		Option 1		
		Cash price £570		
		or		
		Option 2		
		Pay 10% of the cash		
		price and 12 payments of £45.75		
	Talik says,			
	"If I use option 1, rathe	r than option 2, I will sa	ve more than £35"	
	Is he correct?			
	You must show your working.			[E manulca]
				[5 marks]

Question 9 continues on the next page

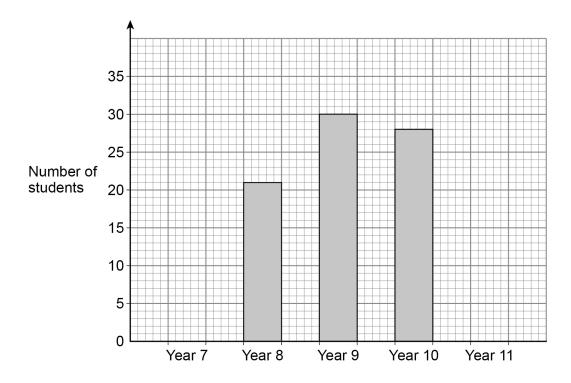




9 (b) Talik finds information about the number of students who cycle to his school. In total, 115 students cycle to school.

The bar chart shows the information for some of the year groups.

The information for Year 7 and Year 11 is missing.



Twice as many Year 11 students as Year 7 students cycle to school.

Comp	lete	the	bar	chart.
------	------	-----	-----	--------

[6 marks]

10 Wedding

Linda is planning a wedding.

10 (a) Linda is planning where to place the tables for the wedding meal.

All the tables are rectangular.

She wants

- a gap of at least 1 metre all around each table
- one main table measuring 5 metres by 1 metre
- two guest tables each measuring 2 metres by 1 metre
- one cake table measuring 1 metre by 0.5 metres.

The grid below is a scale drawing of the room.

Use the grid to draw and label a possible plan for the tables.

[5 marks]

Scale	represents a 0.5 metre by 0.5 metre square	
		
	 	

Question 10 continues on the next page

Turn over ▶



b)	Linda is making a bouquet of flowers for the bride. She will use pink roses and cream roses in the ratio pink : cream = 1 : 3 Linda will put 5 pink roses in the bouquet. She has 21 cream roses.	
	How many cream roses will she have left after making the bouquet? You must show your working.	[2 marks
	Answer	

Do not writ	е
outside the	,
hox	

10 (c)	Linda is baking the wedding cake.		
	She finds this recipe for a cake to serve 20 people.		

Wedding cake - serves 20

200 grams flour 850 grams dried fruit 180 grams butter 180 grams sugar 6 eggs

Linda wants to make enough cake for **30** people. She has plenty of flour, sugar and eggs. She has

1 kilogram of dried fruit140 grams of butter.

Work out how much more dried fruit and butter she needs.

	[6 marks]
dried fruit	grams
-	
butter_	grams





11	School Playground
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Steve works as a caretaker in a primary school.

11 (a) Steve wants to buy a climbing frame for the school playground.

Pupils in Years 4, 5 and 6 have been fundraising to pay for it.

The climbing frame will cost £950

The table shows how much money they have raised so far.

Class	Amount Raised (£)	
Year 4	325	
Year 5	234	
Year 6	282	

The teachers help by baking and selling cakes.

They sell 62 cakes for £1.20 each.

All the money from selling the cakes is added to the fundraising total.

How much more money	do they need t	o raise to buy the	climbing frame?
---------------------	----------------	--------------------	-----------------

	·	·	[4 marks]
Answer £			

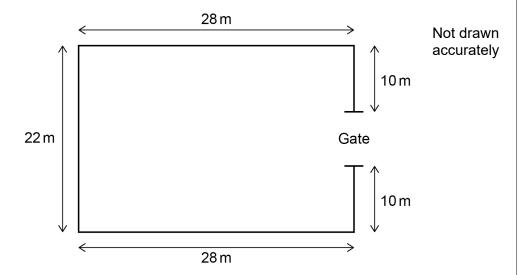


11 (b)	Steve built a new sand pit for the school playground. The sand pit is in the shape of a cuboid.	
	0.3 m 0.7 m	
	Steve needs to buy bags of sand to fill the sand pit to the top.	
	Each bag contains 0.05 m ³ of sand.	
	How many bags of sand does Steve need to buy?	
	You must show your working.	[3 marks]

Question 11 continues on the next page



11 (c)	Steve is going to replace the fence panels around the playground.
	Here is a plan view of the playground.



Steve will keep the old gate and buy new fence panels.

Fence panels are 2 m wide.

Each 2m panel costs £32.46

Steve says,

"The total cost of the fence panels will be less than £1600"

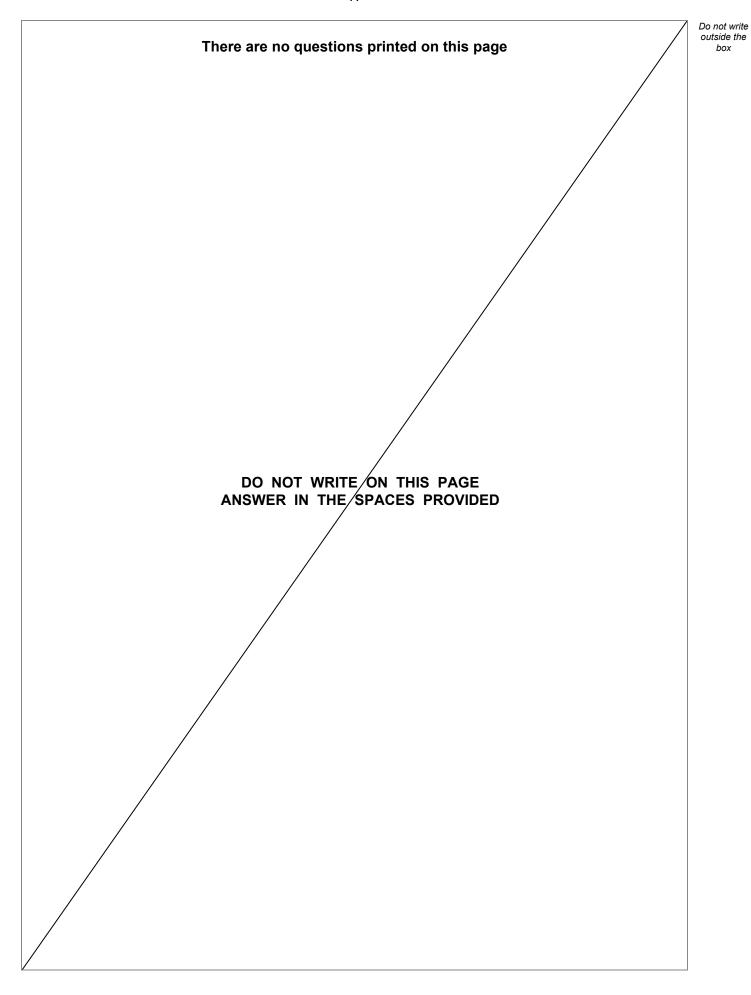
Is he correct?

You must show your working.

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END OF QUESTIONS







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