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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

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.

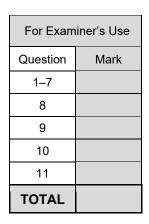
#### Information

- 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.





**8361/2** QAN 603/4257/2

IB/M/Mar23/E7

		Section A			Do not write outside the box
	Answer a	all questions in the sp	baces provided.		
1	A fair, ordinary dice is roll	ed.			
	Circle the probability of ro	lling the number 4		[1 r	nark]
	<u>1</u> 6	<u>1</u> 4	$\frac{4}{6}$	$\frac{1}{2}$	
2	Convert 2460 centimetres	to metres.		[1 r	nark]
	Answer		met	res	
3	You are facing North East You turn <b>clockwise</b> to fac Write down the angle of tu	e South East.		[1 r	nark]
	Answer_			o 	

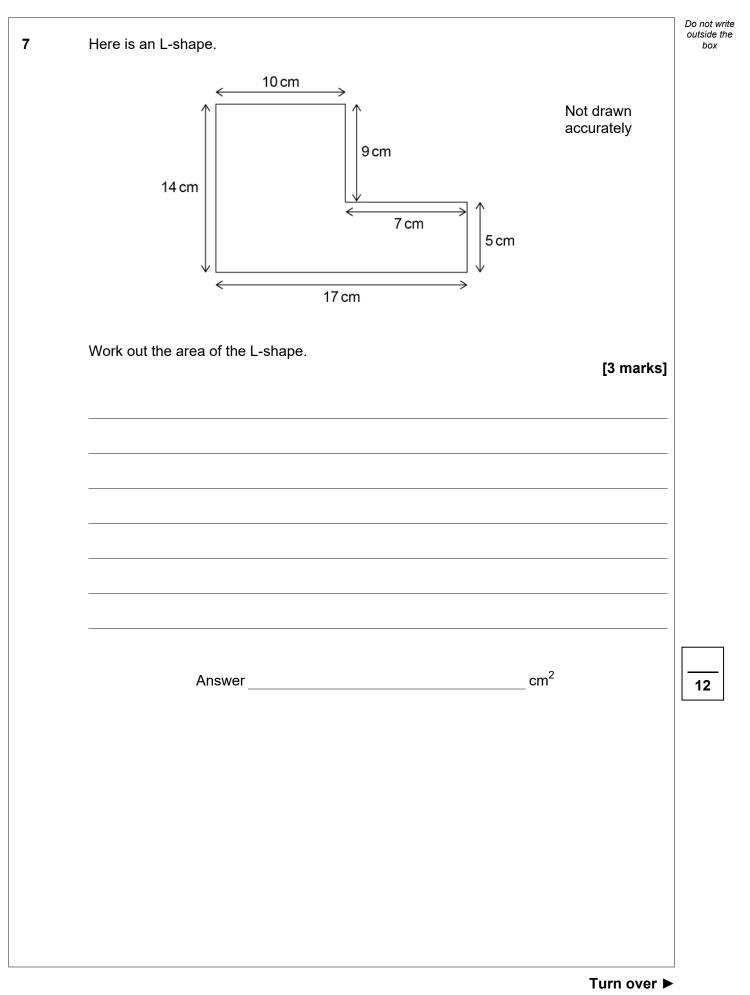


4	Work out 76 <sup>2</sup> – 47 <sup>2</sup>			[2 marks]	Do not write outside the box
	Answei	r			
5	Write these fractions in o	rder of size, starting with	the <b>largest</b> .	[2 marks]	
	$\frac{2}{3}$	$\frac{3}{5}$	$\frac{5}{8}$		
	Answer	J	,	_	



6	Work out the ra	nge of the	ese num	bers.					out	not writ side the box
		20	15	9	10	26	14	18		
		Answer								





0 5

#### 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.

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	

In total, Kim was paid £1060 that week.

How many hours did she work on Saturday?

[6 marks]

Answer

hours



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

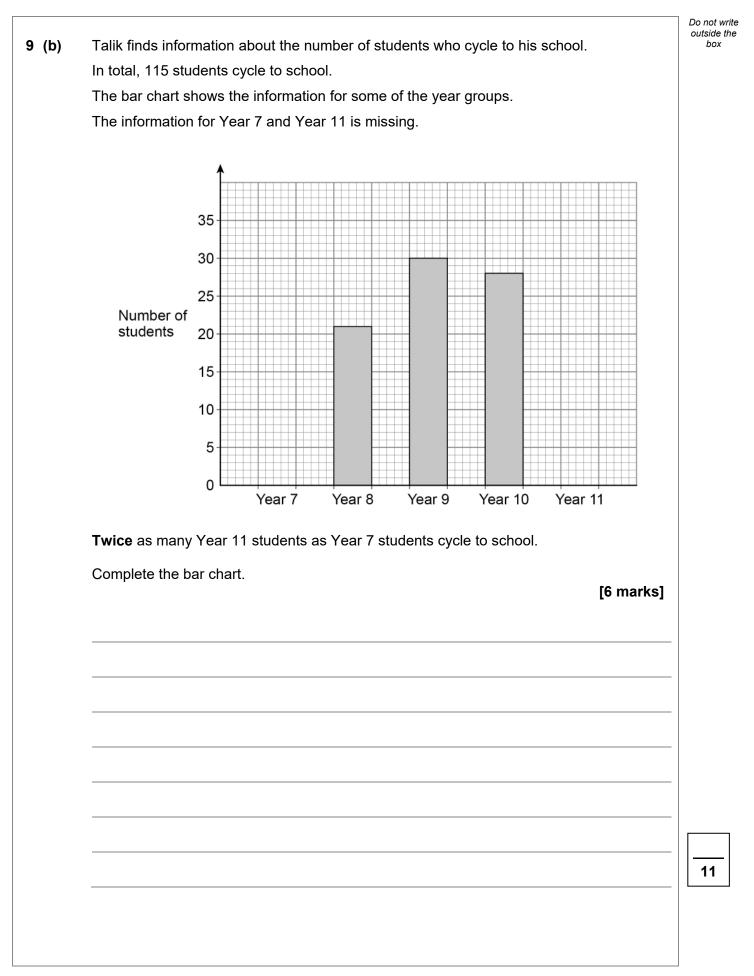


8 (c)	The diagram shows how much petrol is in the tank of Kim's van.	Do not write outside the box
	empty 1 Full	
	Kim takes the van to the petrol station to fill the tank.	
	The tank holds 64 litres when full.	
	Petrol costs £1.45 per litre.	
	Kim has £70 to pay for the petrol.	
	Does she have enough money to fill the tank with petrol?	
	You <b>must</b> show your working. [4 marks]	
		13



	Cycling					
	Talik likes cycling.					
	<b>-</b> 11					
)	Talik wants to buy a new bike. There are two ways he can pay for the bike.					
	There are two ways he can	pay for the bike.				
		Road bike				
		TP				
		$\Theta$				
		Option 1				
		Cash price £570				
		or				
		Option 2				
		Pay 10% of the cash				
		price and 12 payments of £45.75				
	Is he correct? You <b>must</b> show your worki	ng.		[5 ma		
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	Wedding							
	Linda is plan	ning a wed	ding.					
(a)	Linda is plan	ning where	to place	the tables	s for the wed	lding mea	I.	
	All the tables	s are rectan	gular.					
	She wants							
	• a	a gap of at l	east 1 m	etre all arc	ound each ta	able		
					netres by 1 r			
					ring 2 metre		tre	
					netre by 0.5			
	The grid belo							
	-			-				
	Use the grid	Use the grid to draw and <b>label</b> a possible plan for the tables. [5 marks]						
		Casta						
		Scale:	re	presents a	0.5 metre b	y 0.5 met	re square	
		++						
		++						
	1 1 1					·		
		1 1						
			·					

Turn over ►

			Do not write outside the
10 (b)	Linda is making a bouquet of flowers for the bride.		box
	She will use pink roses and cream roses in the ratio pink : cream = $1 : 3$		
	Linda will put 5 <b>pink</b> roses in the bouquet.		
	She has 21 <b>cream</b> roses.		
	How many cream roses will she have left after making the bouquet?		
	You <b>must</b> show your working.	[2 marks]	
	Answer		



	Linda is baking the weddir	ng cake.		out
	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 enou	igh cake for <b>30</b> people.		
	She has plenty of flour, su			
	She has			
	1 kilogram of drie	ed fruit		
	140 grams of but	iter.		
	Work out how much more	dried fruit and butter she needs.		
			[6 m	arks]
	dried fruit		grams	



#### 11 School Playground

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.

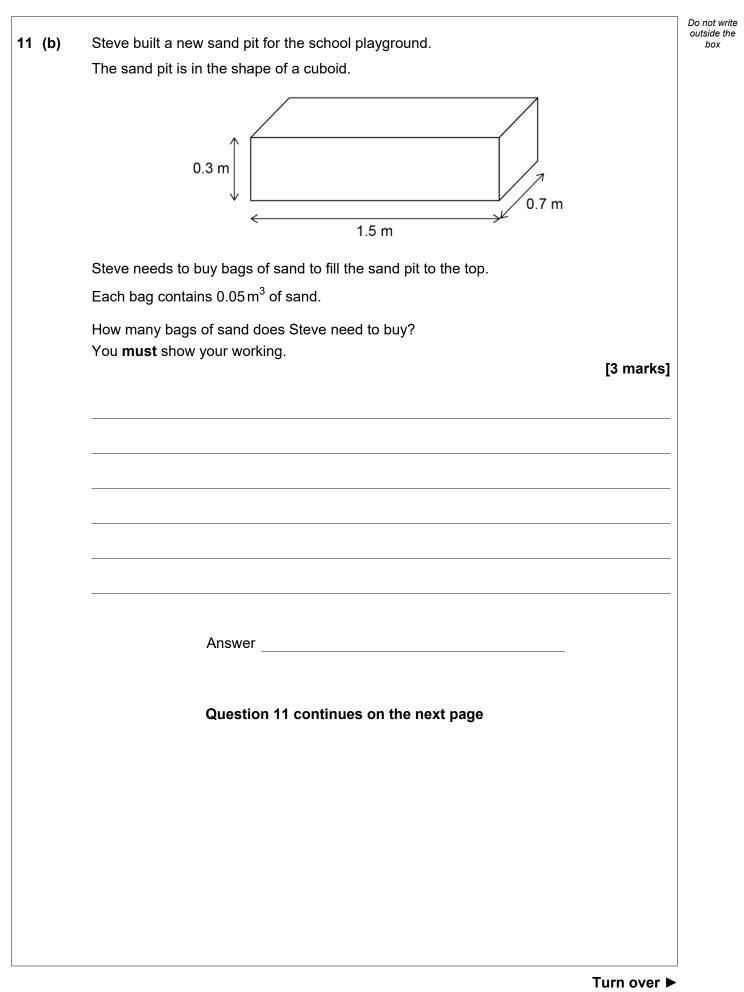
All the money from selling the cakes is added to the fundraising total.

How much **more** money do they need to raise to buy the climbing frame?

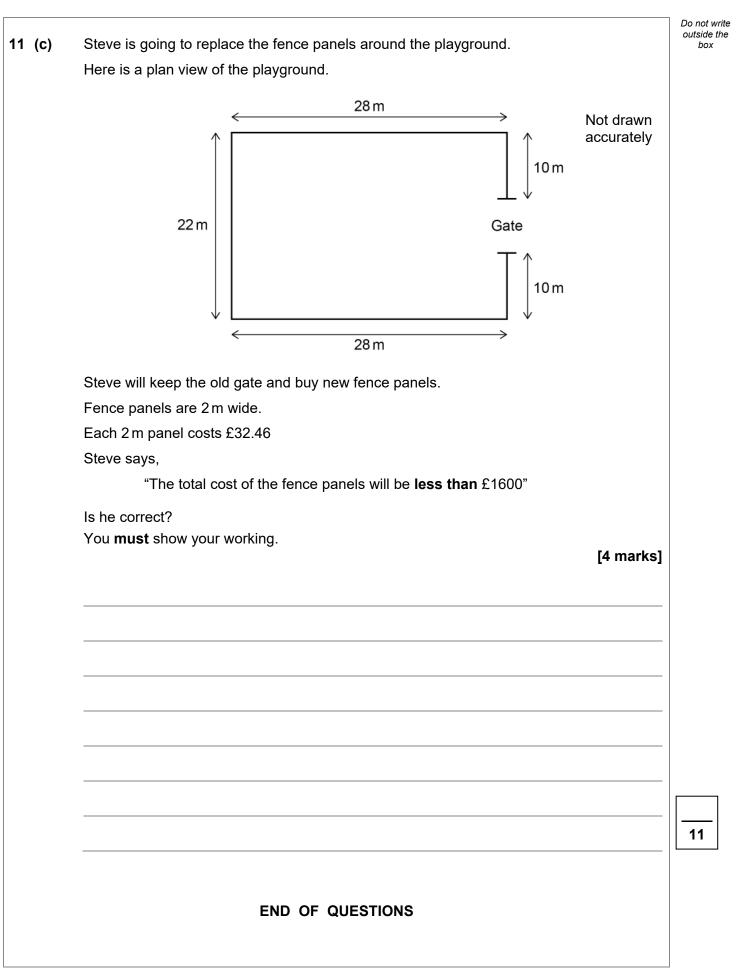
[4 marks]

Do not write outside the box

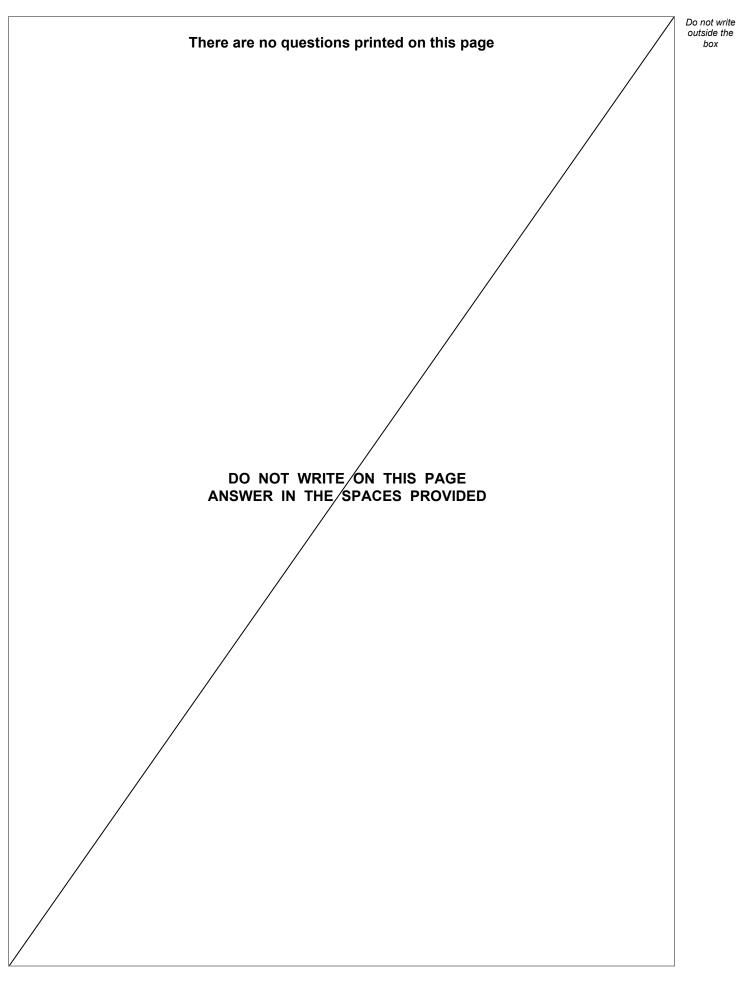
Answer £













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