

Surname	
Forename(s)	
Centre Number	
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I declare this is my own work.	

# Functional Skills Level 1 MATHEMATICS

Paper 2 Calculator

8361/2

**Thursday 3 November 2022** 

**Afternoon** 

Time allowed: 1 hour 30 minutes

At the top of the page, write your surname and forename(s), your centre number, your candidate number and add your signature.



#### **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 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.

DO NOT TURN OVER UNTIL TOLD TO DO SO



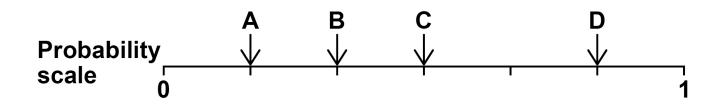
#### **SECTION A**

Answer ALL questions in the spaces provided.

1 A fair six-sided dice is rolled.

Which letter shows the probability of landing on an even number?

Circle your answer. [1 mark]



2 Circle the fraction with the same value as  $3\frac{3}{4}$  [1 mark]

 $\frac{9}{4}$ 

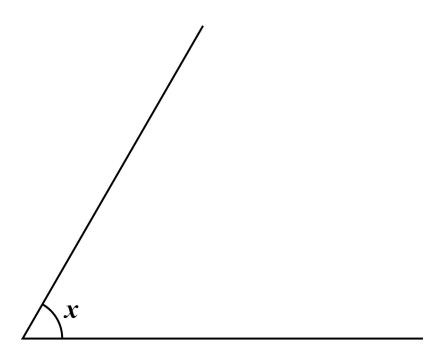
 $\frac{10}{4}$ 

13 4

 $\frac{15}{4}$ 



3 Measure the size of angle x [1 mark]

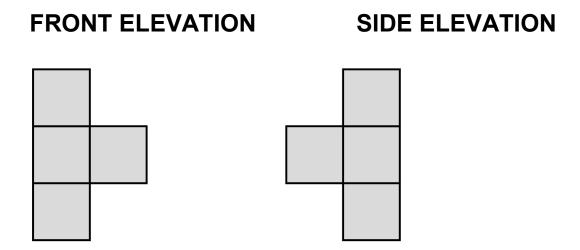


4 Calculate  $-5 \times -6$  [1 mark]

Answer			

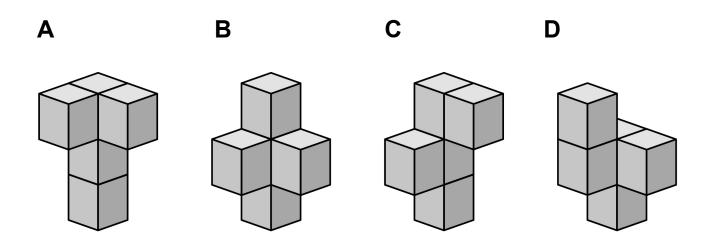


5 The front elevation and side elevation of a shape are shown.



Which shape has these elevations?

Circle the correct letter. [1 mark]





6	Round	14.76	to one o	decimal p	lace. [1 ı	mark]
	Answei	r				
7	Here ar	e six nı	ımbers.			
	16	19	16	10	17	12
	Work o	ut the n	nean. [3	marks]		
	Answei	r				



Increase 630 by 40%	[3 marks]
	1



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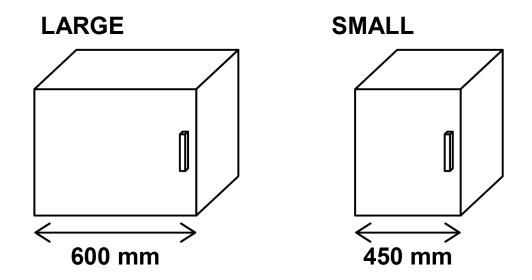
#### **SECTION B**

**Answer ALL questions in the spaces provided.** 

- 9 THE KITCHEN FITTER

  Ryan is a kitchen fitter.
- 9 (a) A customer wants cupboards along one wall of her kitchen.

Ryan can choose from these cupboards.



He can choose some of each size.

The length of the wall is 3.45 METRES.



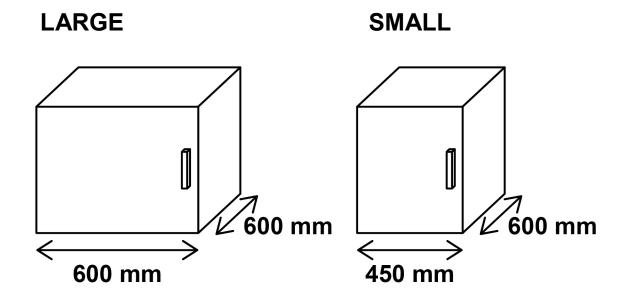
so that they fit the length of the wall with no				
gaps? [4 marks]				
Number of large cupboards				
Number of small cupboards				



9 (b) A different customer wants

3 large cupboards with width 600 mm and depth 600 mm

2 small cupboards with width 450 mm and depth 600 mm



The cupboards will fit along ONE wall of this customer's kitchen.

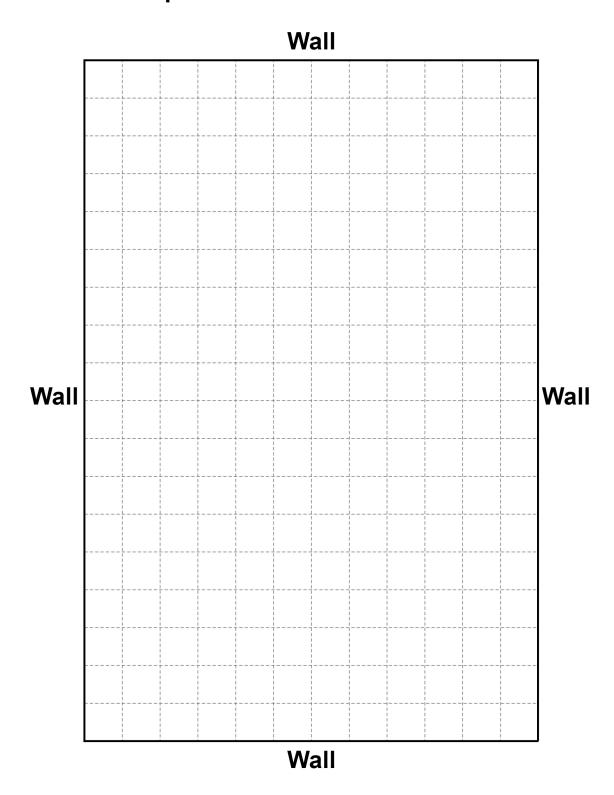
The grid on the page opposite shows a scale drawing of the kitchen.

The scale is 1 cm represents 150 mm

Use the grid to draw a plan of where Ryan could fit the cupboards. [4 marks]



### SCALE: 1 cm represents 150 mm





9 (c) This is the price list for Ryan's kitchen cupboards.

	Price per cupboard
Large cupboard	£85.50
Small cupboard	£75.00

There is a special offer.

Large cupboards Buy one, get one half price

A customer wants to order 6 large cupboards and 2 small cupboards.

The customer has a budget of £550

Does the customer have enough money to buy these cupboards?

You MUST show your working. [5 marks]



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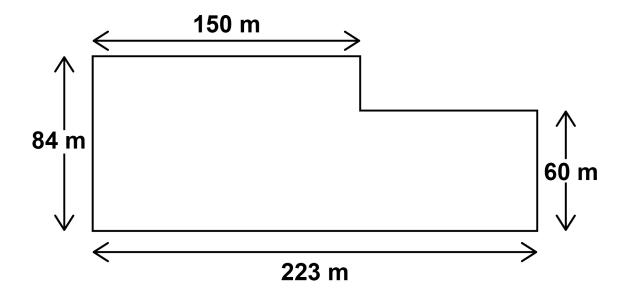
#### 10 FLOWER FARM

Erik grows daffodils on his farm.



# 10 (a) This is a sketch of a field where Erik will grow daffodils.

It is not drawn accurately.







10 (b)	Joe picks flowers on Erik's farm.				
	Joe is p		for each	box he fill	s with
	The flo	wer-pickir	ng season	lasts for	10 weeks.
			ne number e first 5 w	of boxes eeks.	Joe filled
	55	47	45	44	59
		te how mu 10-week s		an expect	to earn for
	You MU	JST show	your wor	king. [4 m	arks]



Answer £			



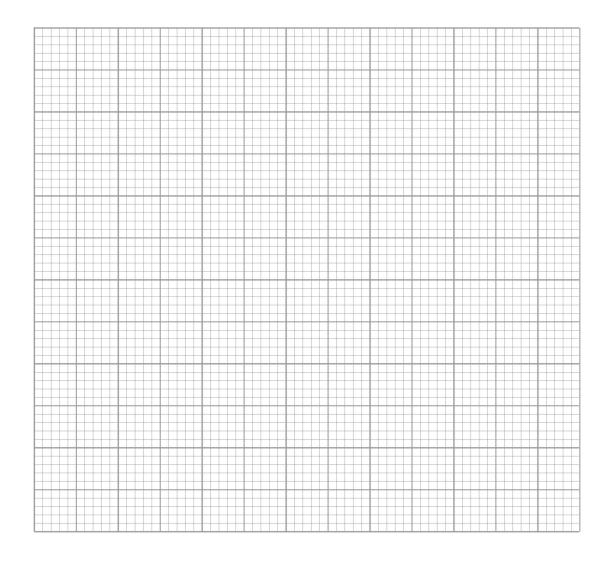
10 (c) Erik plants different types of daffodils in his fields.

Here is some data about the area he planted with each type of daffodil.

Type of daffodil	Area planted (m <sup>2</sup> )
Golden Ducat	88 000
White Lion	72 000
Ice Follies	46 000
Pink Pride	34 000

On the opposite page, draw a suitable chart to show this data. [4 marks]

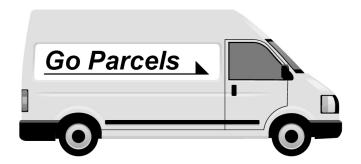






#### 11 PARCELS

Sam sends parcels using couriers.



# 11 (a) The table shows information about the cost of sending parcels with Go Parcels.

WEIGHT RANGE	COST
Up to 1 kg	£5.99
More than 1 kg up to 10 kg	£12.99
More than 10 kg up to 15 kg	£14.24
More than 15 kg up to 20 kg	£25.49

Sam needs to send items weighing 2 kg, 4 kg and 11 kg

Sam can combine the three items into one parcel before sending.

How much cheaper is it to send one combined parcel rather than three separate parcels? [4 marks]

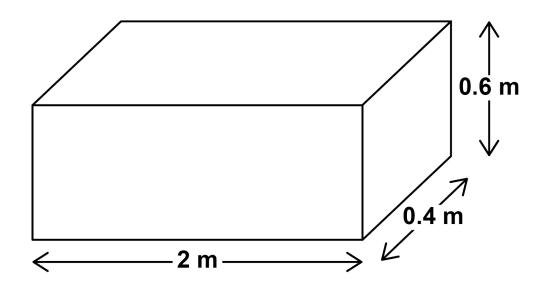


	_		
Answer £			



11 (b) Sam sends a parcel with a different courier, Package Plus.

The parcel is a cuboid box measuring 2 m by 0.4 m by 0.6 m



Package Plus charges using the formula

Cost(£) =

£15.25 + (volume of parcel in  $m^3 \times £4.25$ )

Sam pays with a £20 note.

How much change should Sam receive? [5 marks]



	A 10 0 1 1 1 0 1 1 0 1			
	Answer £	 	 	
	_			
	_			<u>   </u>
[Turn over]				
				9



12	INE INEAIRE
	Amy is going to a theatre show in Chichester.
12 (a)	Amy will travel by train to Chichester.
	Amy has a railcard that gives her
	$\frac{1}{3}$ off the normal price of a train ticket.
	The normal price of a return ticket to Chichester is £16.83
	Amy says,
	"My ticket will cost LESS THAN £11 if I use my railcard."
	Is Amy correct?
	You MUST show your working. [3 marks]





12 (b)	The theatre sells ice creams at the interval.
	All the ice creams cost the same amount.
	Amy buys herself and her two friends an ice cream each.
	The total cost is £8.40
	How much does it cost to buy 7 ice creams? [3 marks]



_		
Answer £		
A1134101 &		



12 (c)	At the theatre, the show starts at 7.30 pm			
	The show lasts for 105 minutes plus a 20-minute interval.			
	At the end of the show, it will take Amy 35 minutes to get to the station.			
	A train leaves the station at 22.17			
	Can Amy catch this train?			
	You MUST show your working. [4 marks]			



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-	_



12 (d)	Jai works in the box office at the theatre.
	The theatre has 1206 seats.
	For this performance, the ratio of tickets sold to tickets not sold is 5:1
	Jai says,
	"We have sold more than 1000 tickets for this performance."
	Show that he is correct. [3 marks]



	_			
<b>END</b>	OF	<b>QUESTIONS</b>		13



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



Write the question numbers in the left-hand margin		



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Question	Mark	
1–8		
9		
10		
11		
12		
TOTAL		

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