



**Surname** \_\_\_\_\_

**Forename(s)** \_\_\_\_\_

**Centre Number** \_\_\_\_\_

**Candidate Number** \_\_\_\_\_

**Candidate Signature** \_\_\_\_\_

**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**

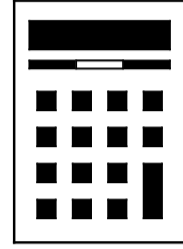
**At the top of the page, write your surname and forename(s), your centre number, your candidate number and add your signature.**

**[Turn over]**



## **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**



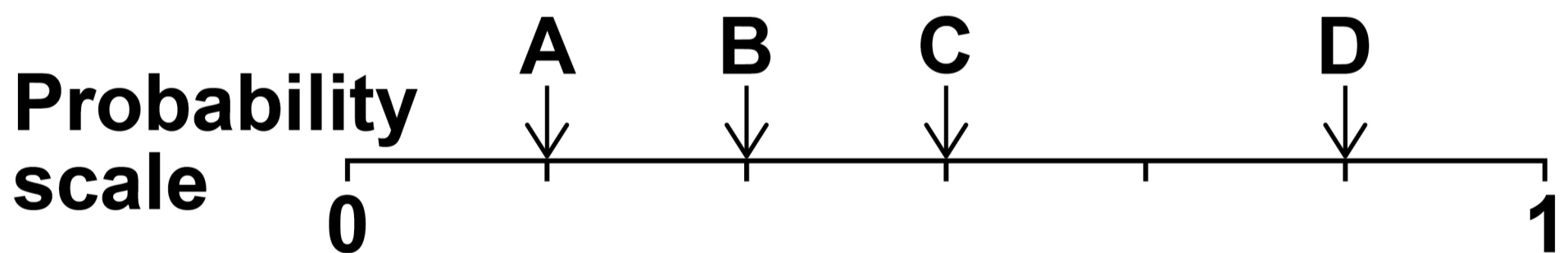
**SECTION A**

**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]

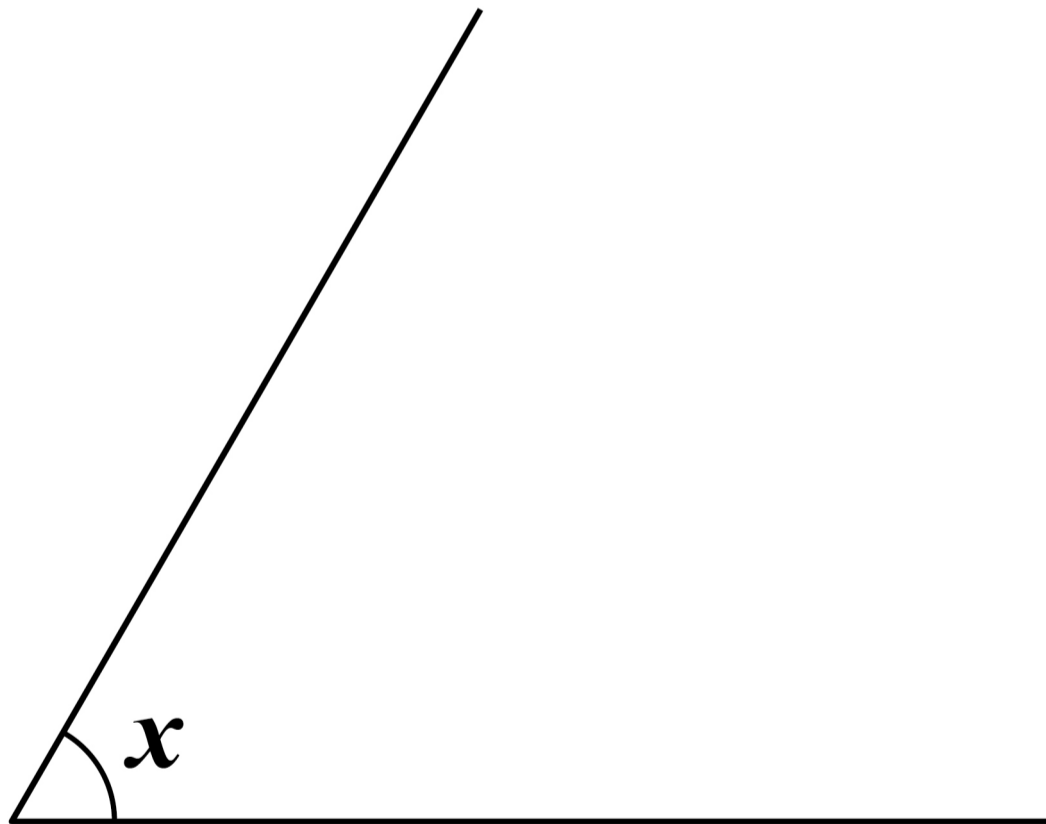
$$\frac{9}{4}$$

$$\frac{10}{4}$$

$$\frac{13}{4}$$

$$\frac{15}{4}$$

3 Measure the size of angle  $x$  [1 mark]



Answer \_\_\_\_\_ °

[Turn over]



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

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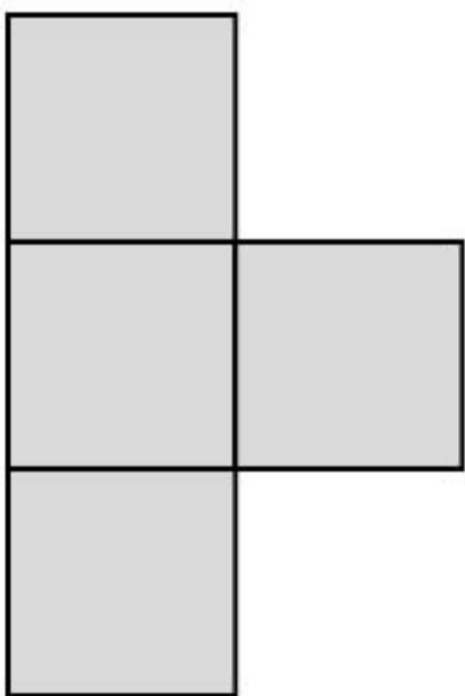
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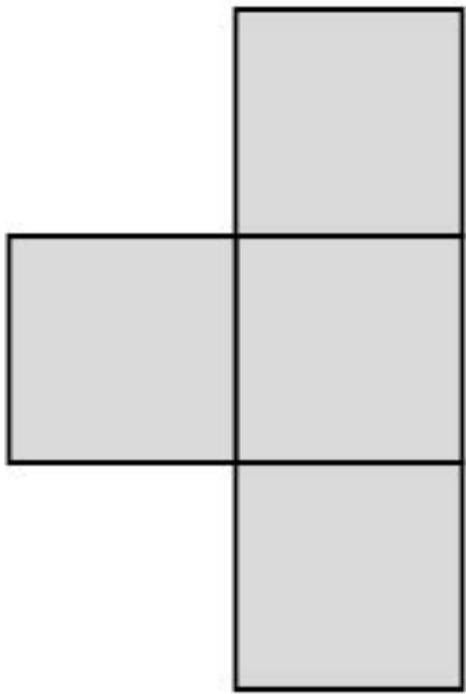
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Answer \_\_\_\_\_

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

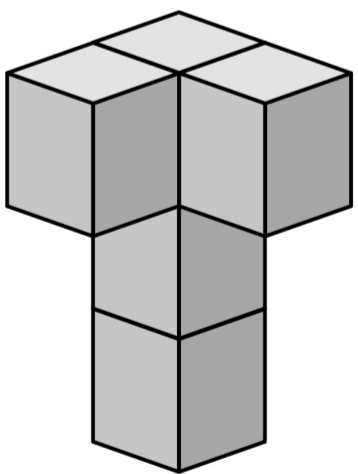
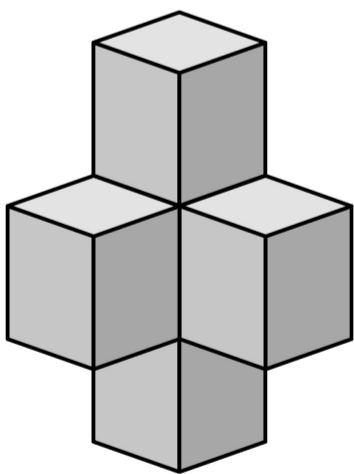
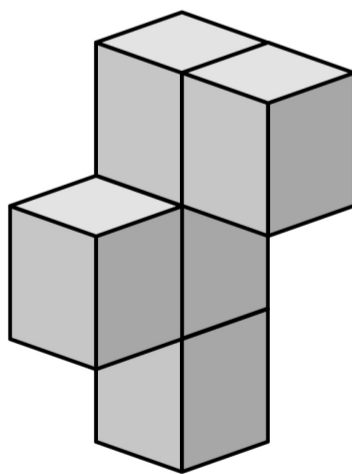
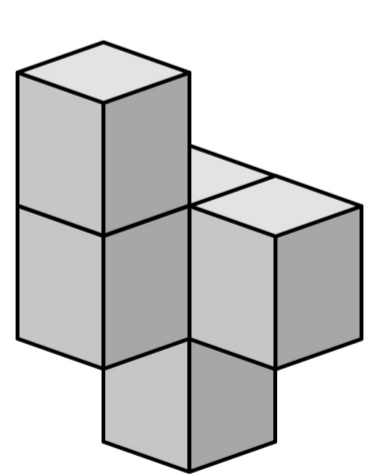
**FRONT ELEVATION**



**SIDE ELEVATION**

**Which shape has these elevations?**

**Circle the correct letter. [1 mark]**

**A****B****C****D**

**[Turn over]**



**6 Round 14.76 to one decimal place.  
[1 mark]**

**Answer** \_\_\_\_\_

**7 Here are six numbers.**

**16    19    16    10    17    12**

**Work out the mean. [3 marks]**

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**Answer** \_\_\_\_\_





**8 Increase 630 by 40% [3 marks]**

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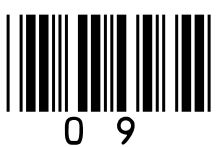
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<b>12</b>

**[Turn over]**



## SECTION B

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

### **9 THE KITCHEN FITTER**

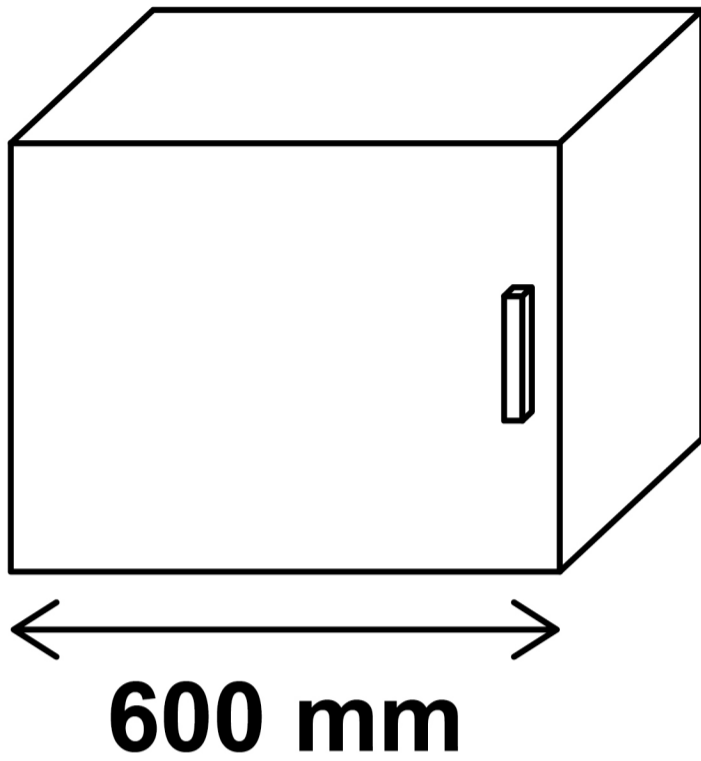
**Ryan is a kitchen fitter.**

**9(a) A customer wants cupboards along one wall of her kitchen.**

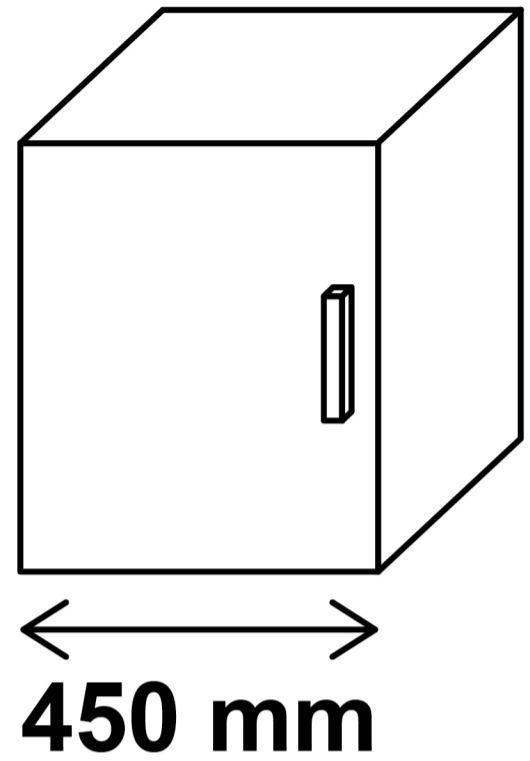
**Ryan can choose from these cupboards.**



**LARGE**



**SMALL**



**He can choose some of each size.**

**The length of the wall is  
3.45 METRES.**

**[Turn over]**



**BLANK PAGE**



**How many of each cupboard could Ryan choose so that they fit the length of the wall with no gaps?  
[4 marks]**

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**Number of large cupboards**

**Number of small cupboards**

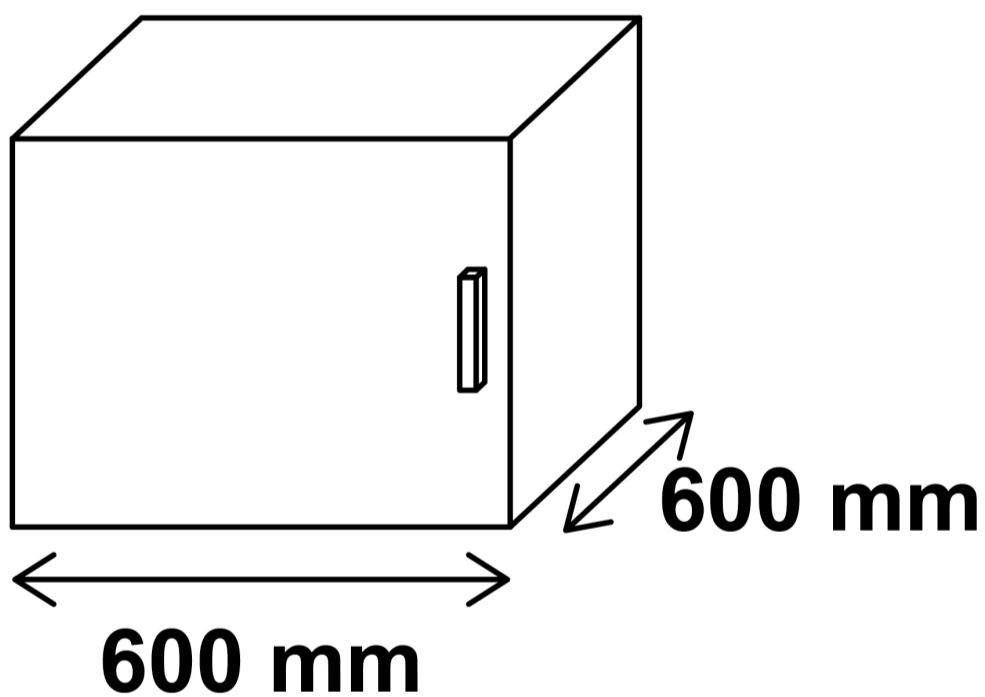
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**[Turn over]**

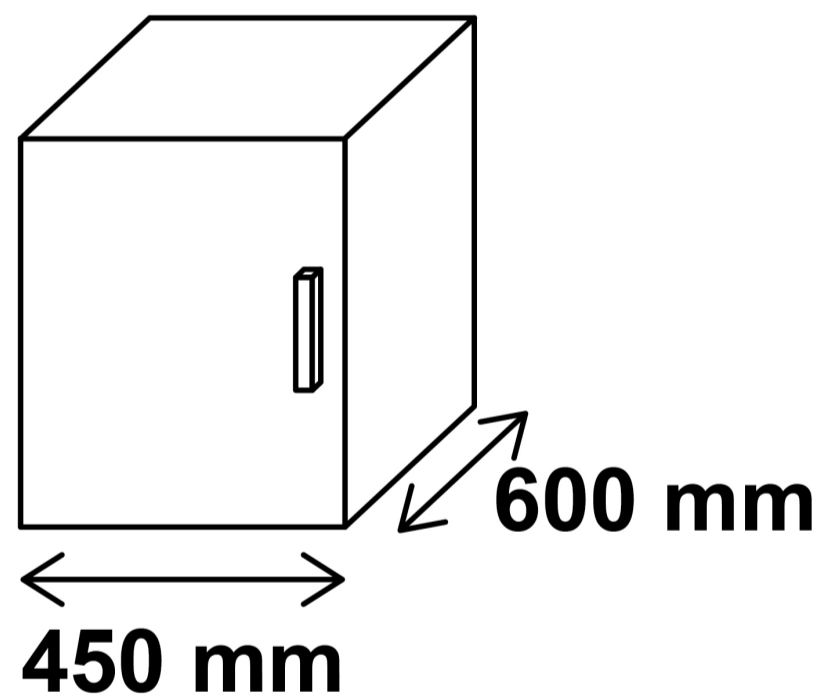


- 9 (b) A different customer wants**
- 3 large cupboards with width 600 mm and depth 600 mm**
  - 2 small cupboards with width 450 mm and depth 600 mm**

**LARGE**



**SMALL**



**BLANK PAGE**

**[Turn over]**



**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.**

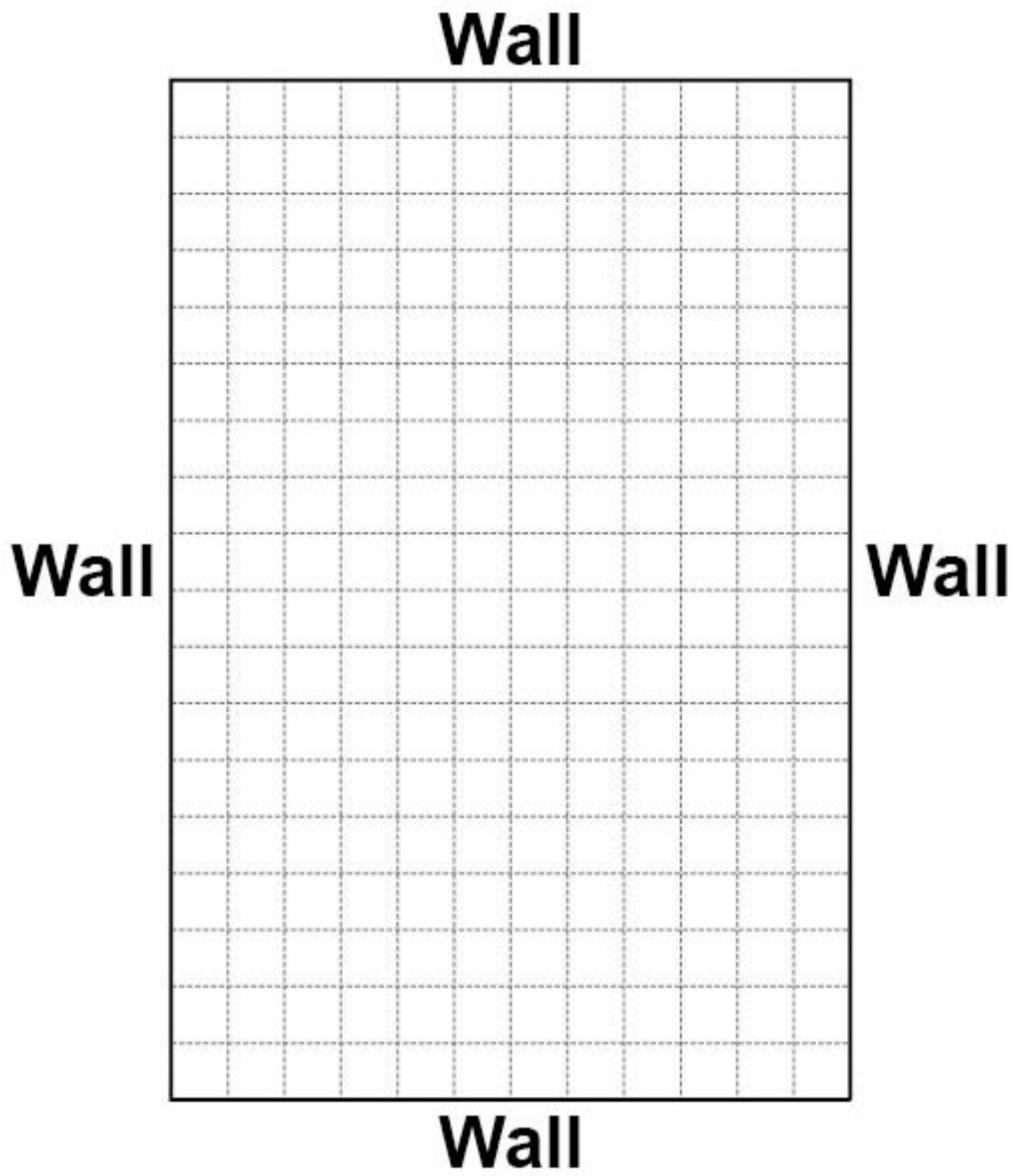
**The scale is  
1 cm represents 150 mm**

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





**SCALE: 1 cm represents 150 mm**



**[Turn over]**



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

	<b>Price per cupboard</b>
<b>Large cupboard</b>	<b>£85.50</b>
<b>Small cupboard</b>	<b>£75.00</b>

**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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**[Turn over]**



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**10 FLOWER FARM**

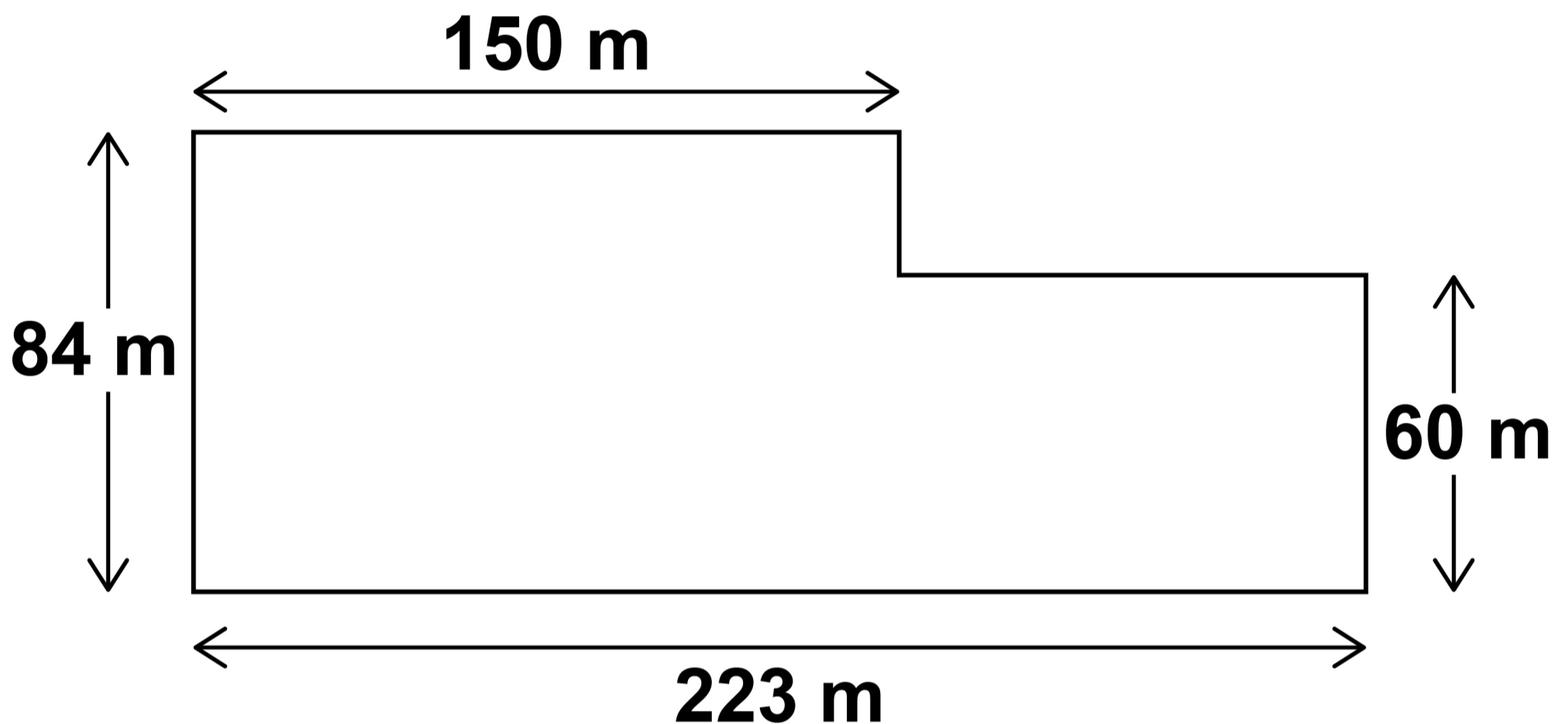
**Erik grows daffodils on his farm.**



**[Turn over]**

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

**It is not drawn accurately.**



**Erik plants 1.25 kg of daffodil bulbs per square metre of land.**

**He has 20 tonnes of bulbs.**

**1 tonne = 1000 kg**



**Does Erik have enough bulbs to plant all of this field?**

**You MUST show your working.  
[5 marks]**

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**[Turn over]**



**10 (b) Joe picks flowers on Erik's farm.**

**Joe is paid £8.29 for each box he fills with flowers.**

**The flower-picking season lasts for 10 weeks.**

**The list shows the number of boxes Joe filled each week for the first 5 weeks.**

**55          47          45          44          59**

**Estimate how much Joe can expect to earn for the full 10-week season.**

**You MUST show your working.  
[4 marks]**

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**Answer £** \_\_\_\_\_

**[Turn over]**



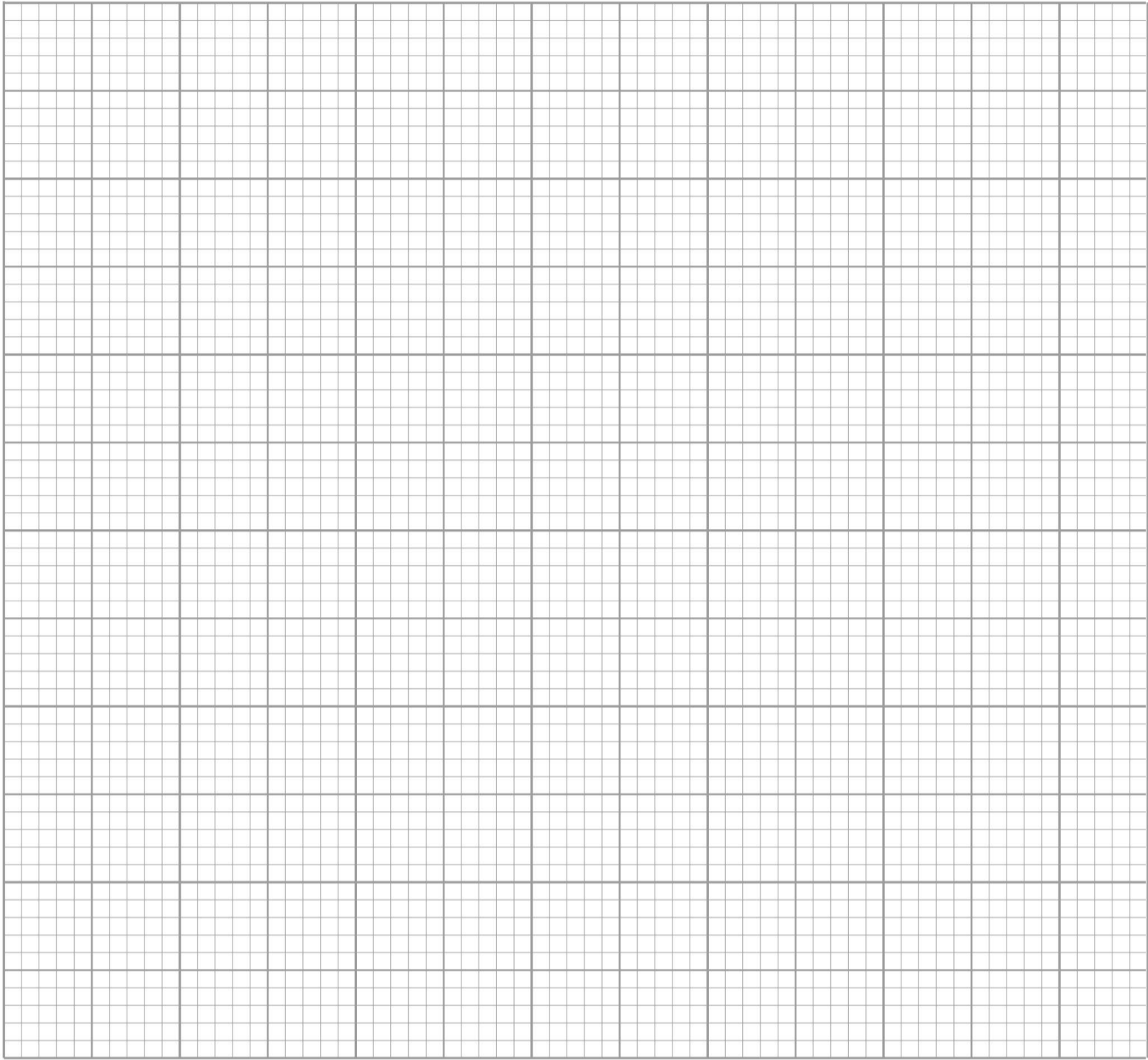
**10 (c) Erik plants different types of daffodils in his fields.**

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

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

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





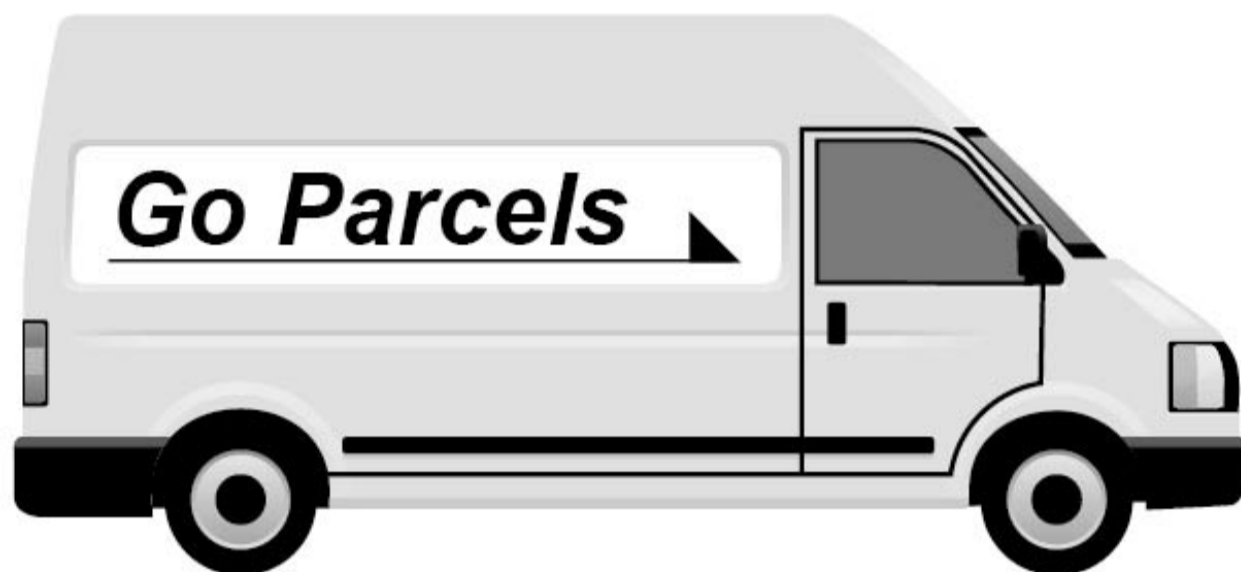
**[Turn over]**

<hr/>
<b>13</b>



# 11 PARCELS

Sam sends parcels using couriers.



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

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



**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]**

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**[Turn over]**



**30**

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**Answer £** \_\_\_\_\_



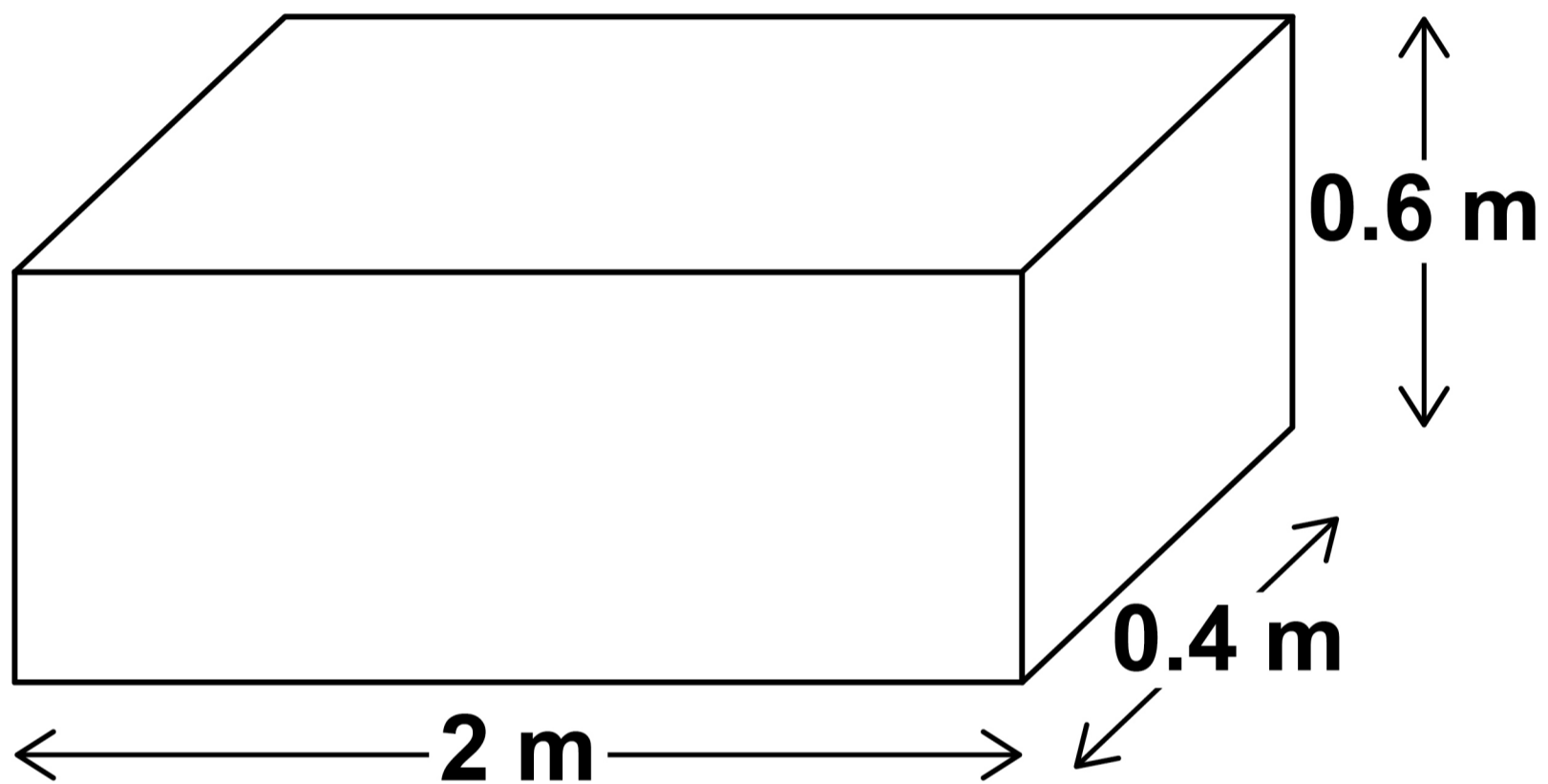
**BLANK PAGE**

**[Turn over]**



**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**

$$\text{Cost (£)} = \text{£15.25} + (\text{volume of parcel in m}^3 \times \text{£4.25})$$

**Sam pays with a £20 note.**





**How much change should Sam receive? [5 marks]**

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**Answer £** \_\_\_\_\_

**[Turn over]**

<hr/>
<b>9</b>



**12 THE THEATRE**

**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?**



**35**

**You MUST show your working.  
[3 marks]**

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**[Turn over]**



**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]**

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**Answer £** \_\_\_\_\_

**[Turn over]**



**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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**[Turn over]**



**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]**

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**END OF QUESTIONS**

13



**Additional page, if required.**

**Write the question numbers in the left-hand margin.**


**Additional page, if required.**

**Write the question numbers in the left-hand margin.**


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For Examiner's Use	
Question	Mark
1–8	
9	
10	
11	
12	
<b>TOTAL</b>	

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**IB/M/CD/Nov22/8361/2/E2**

4 4



2 2 B G 8 3 6 1 / 2