



Surname _____

Other Names _____

Centre Number _____

Candidate Number _____

Candidate Signature _____

I declare this is my own work.

Functional Skills Level 1

MATHEMATICS

Paper 2 Calculator

8361/2

Time allowed: 1 hour 30 minutes

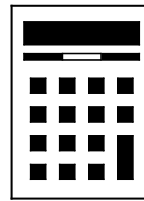
At the top of the page, write your surname and other names, your centre number, your candidate number and add your signature.

[Turn over]



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.**
- **If your calculator does not have a π button, take the value of π to be 3.142**

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 Circle thirty two thousand and eighty nine written in digits.
[1 mark]**

3289

30 289

32 089

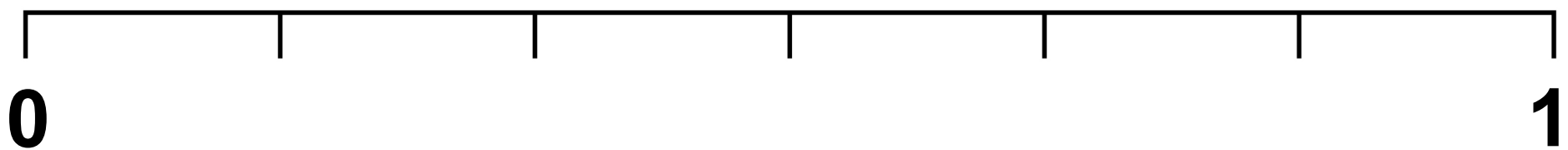
320 089



2 A fair, ordinary dice is rolled once.

On the line, mark with an 'X' the probability that the dice lands on an even number.

[1 mark]



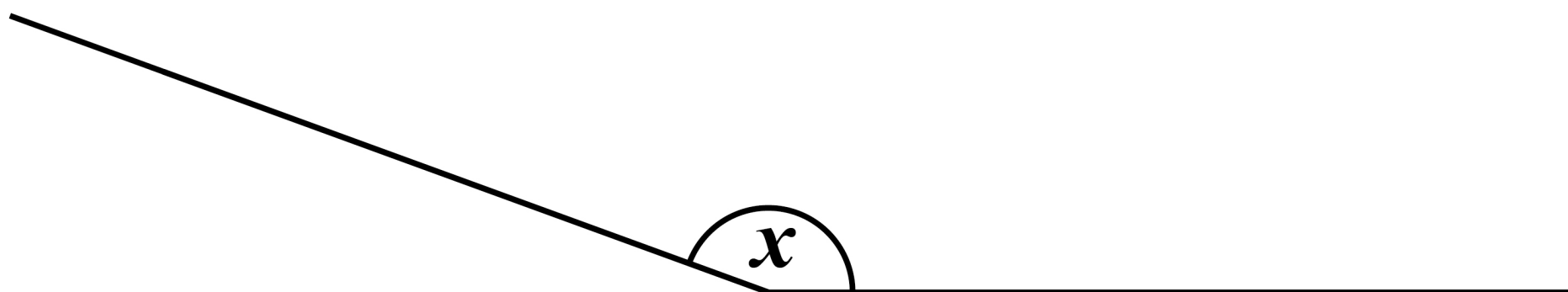
[Turn over]

3 Write these numbers in order, starting with the smallest. [2 marks]

−8 3 −5 −1 2 0 −2

Answer _____

- 4 Measure the size of angle x .
[1 mark]

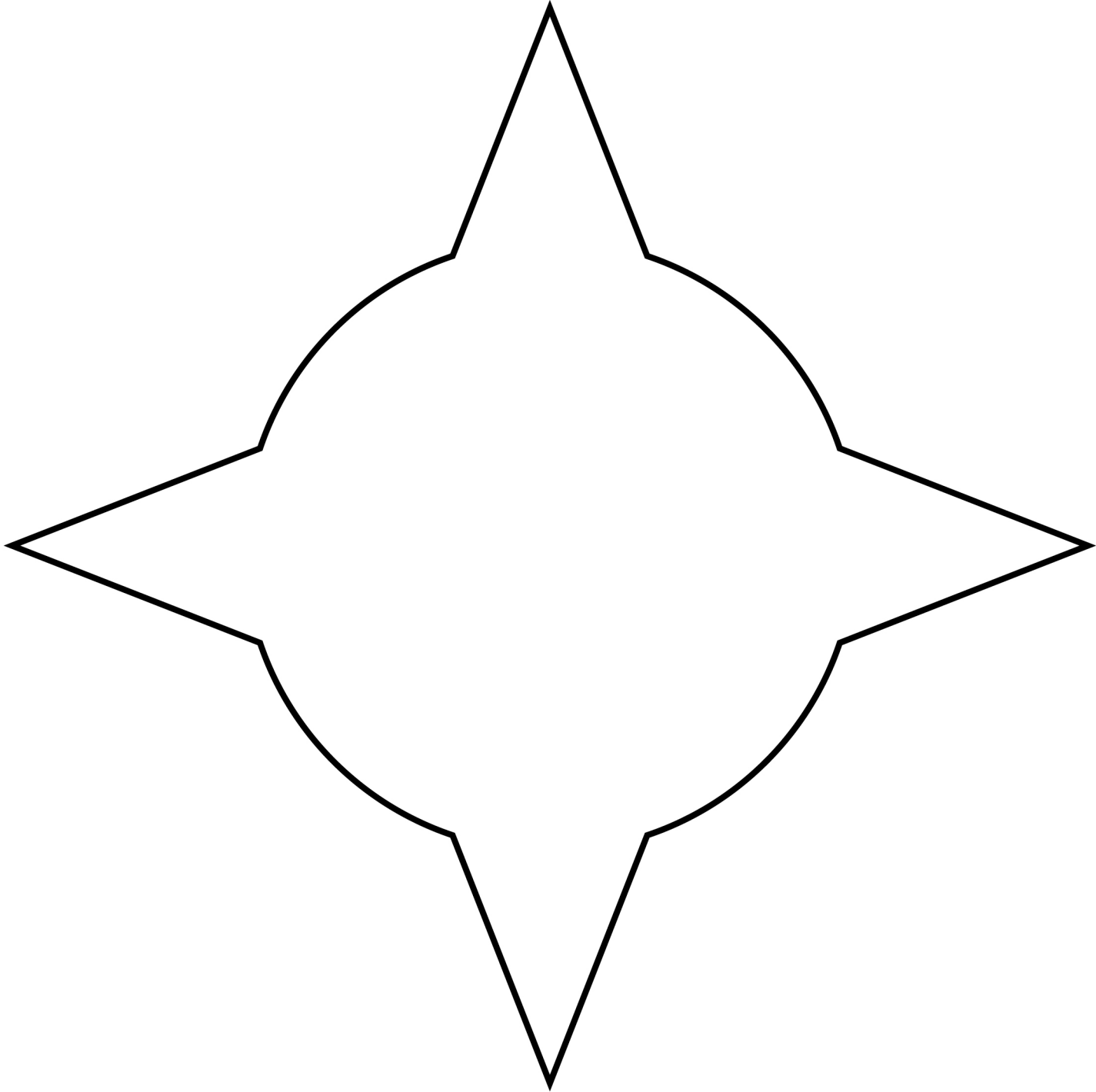


Answer _____ °

[Turn over]



5 Draw ALL the lines of symmetry on this shape. [2 marks]



**6 Work out which is smaller,
15% of 180 or 20% of 120**

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

[Turn over]



7 Here are five numbers.

37 58 19 12 58

Work out the range. [2 marks]

Answer

12

BLANK PAGE

[Turn over]



SECTION B

Answer ALL questions in the spaces provided.

8 CHARITY SHOP

Melissa works in a charity shop.

People donate clothing to the shop.

Some of the clothing is sold in the shop and some is sold for recycling.

8 (a) Melissa keeps a record of the clothing sold in the shop one month.

Item of clothing	Tally	Frequency
Shirt		
Coat		
Jumper		
Dress		



**Melissa says,
“More than a quarter of the items
sold were shirts.”**

**Is Melissa correct?
You MUST show your working.
[5 marks]**

[Turn over]



8 (b) When Melissa sells clothing for recycling, she receives

a basic amount of £1.20 per 500 g of clothing

10% extra if she sells a batch with more than 100 kg of clothing.

Melissa sells a batch with 143.5 kg of clothing for recycling.

**How much does she receive?
[5 marks]**

15

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Answer £ _____

[Turn over]



8 (c) Melissa sells bottles of shampoo in the charity shop.



Melissa fills the bottles from a container that holds 12 litres.

How many bottles can Melissa fill from the container? [4 marks]

Answer _____

14

[Turn over]



9 BAKERY

Brandon works in a bakery.

9 (a) Brandon uses scone mix to make scones.

He needs 360 g of scone mix to make 8 scones.

Brandon

wants to make 40 scones

has 200 g of scone mix.

How much MORE scone mix does he need? [3 marks]



Answer _____ **g**

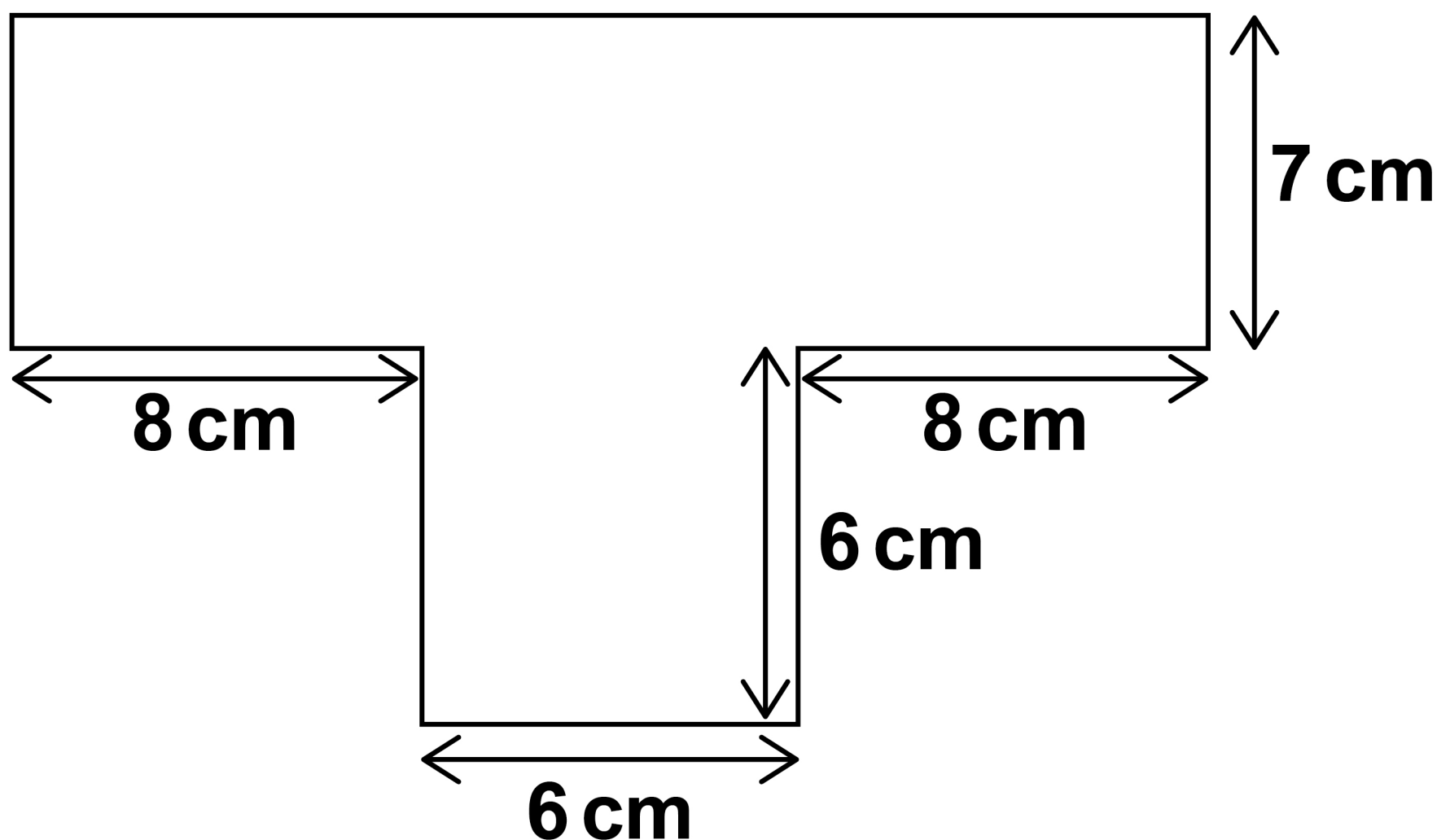
[Turn over]



9 (b) Brandon is making a birthday cake in a T shape.

Here is a plan view of the cake.

The diagram is not drawn accurately.



Brandon has enough icing for an area of 200 cm^2

Does he have enough icing for the top of the cake?

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

[Turn over]



9 (c) Brandon wants to buy a box large enough to hold 16 kg of flour.

He uses this formula.

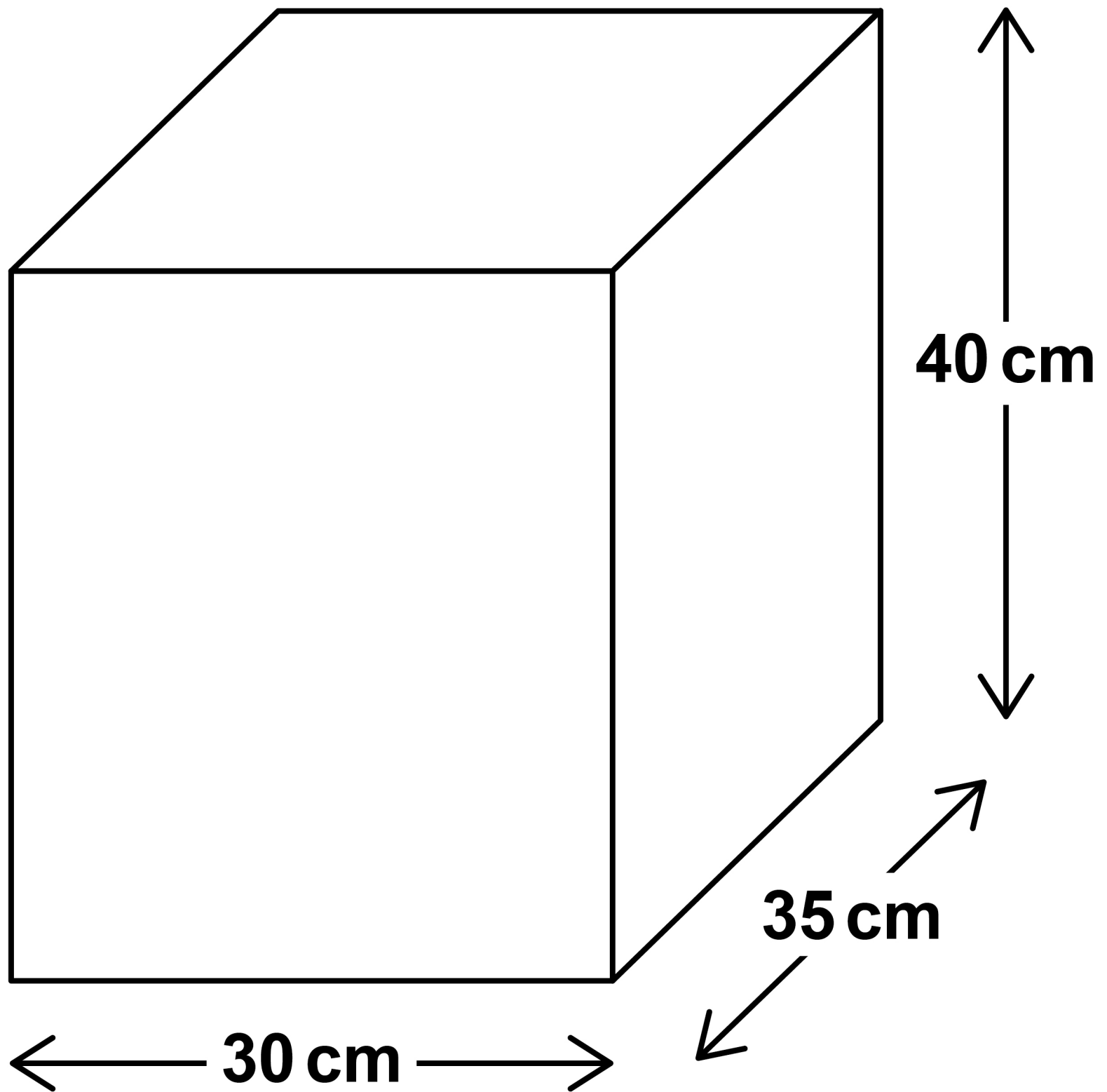
$$\text{Volume of container (cm}^3\text{)} = \text{Weight of flour (kg)} \times 2400$$

He sees this cuboid box for sale.

The diagram, on the opposite page, is not drawn accurately.



23



[Turn over]



BLANK PAGE



Can this box hold 16 kg of flour?

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

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[Turn over]



10 WORKING FROM HOME

Spencer works from home for a call centre.

10 (a) Spencer works

3 days a week

from 7.30 am until 12 noon each day.

He is paid £151.47 per week.

Is this MORE THAN £11 per hour?

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



[illegible]

[Turn over]



10 (b) Spencer can claim an amount for each page he prints for work.

One month,

he claimed £2.76

he printed 138 pages.



The next month, he printed 97 pages.

At the same rate, how much can Spencer claim? [3 marks]

Answer £ _____

[Turn over]

10 (c) Spencer makes phone calls for work.

He has a target that on average his calls should last LESS THAN 5 minutes.

Here are the times that his calls lasted one day.

Time spent on phone calls in minutes

7	3	2	11	7	5
6	5	9	1	6	7

Did Spencer hit his target that day?

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

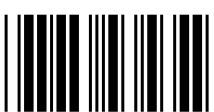


31

[illegible]

[Turn over]

10

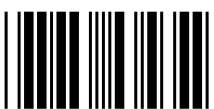


3 1

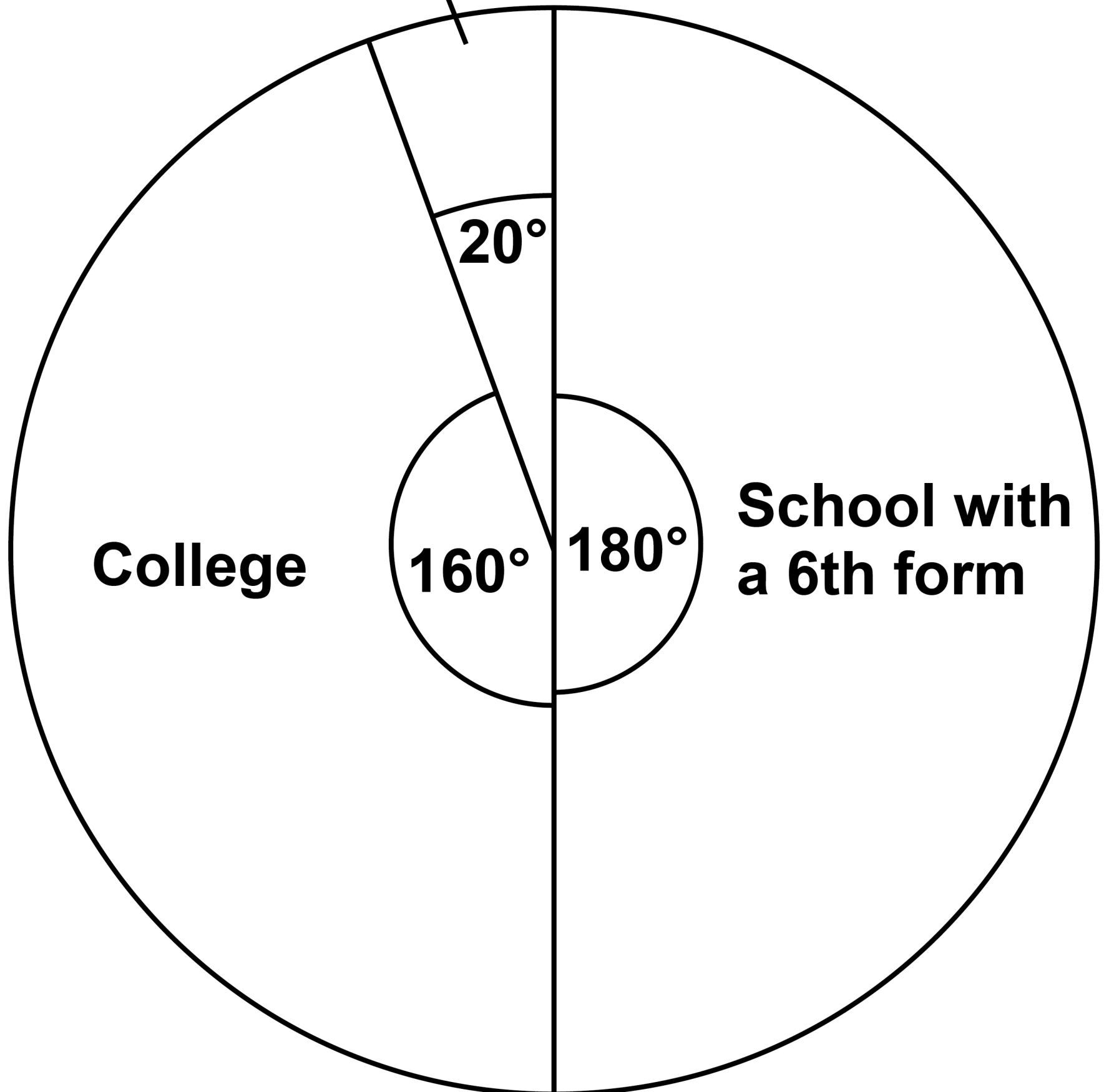
11 SCHOOL LEAVERS

Students leave a school at the end of Year 11

11 (a) The pie chart, on the opposite page, shows what students did when they left the school last year.



Apprenticeship



[Turn over]



BLANK PAGE



90 students went to a school with a 6th form.

How many MORE students went to college than started an apprenticeship? [4 marks]

Answer _____

[Turn over]



**11(b) On the last day, the students will
have a 40-minute lunch
then a 15-minute registration
then a 35-minute assembly.**

**The students will leave school at
1.50 pm**

**What is the latest time lunch should
start? [3 marks]**

Answer _____

[Turn over]



11(c) Javed is going to be an apprentice bricklayer.

He needs to buy TWO jackets.

He sees these offers in two shops.

Shop A

Jackets usual price £24

Special Offer

$\frac{1}{3}$ off the usual price

Shop B

Jackets usual price £21.80

Special Offer

Buy one, get second half price



He wants to pay the lowest price possible.

Which of these shops should Javed choose?

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

[Turn over]

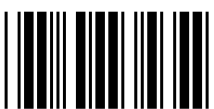


END OF QUESTIONS

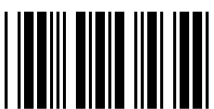
13



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

[illegible]

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

[illegible]

**Additional page, if required.
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left-hand margin.**

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For Examiner's Use	
Question	Mark
1–7	
8	
9	
10	
11	
TOTAL	

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