



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]



N 0 V 2 1 8 3 6 1 2 0 1

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

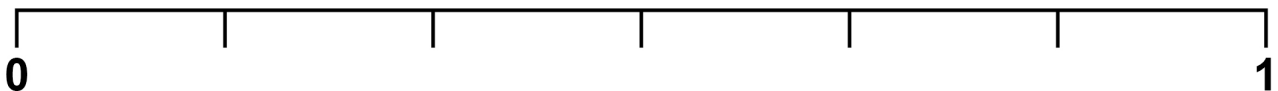
Answer ALL questions in the spaces provided.

- 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]**

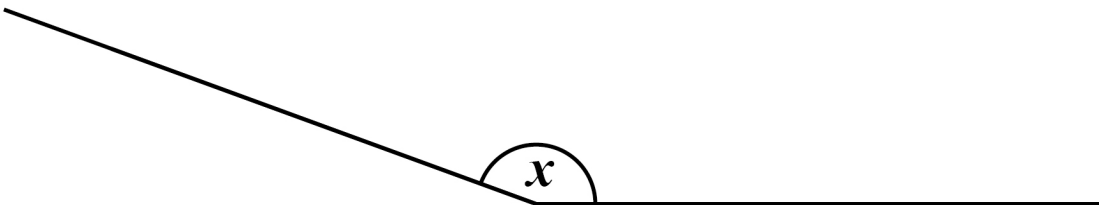


- 3 Write these numbers in order, starting with the smallest. [2 marks]

-8 3 -5 -1 2 0 -2

Answer _____

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

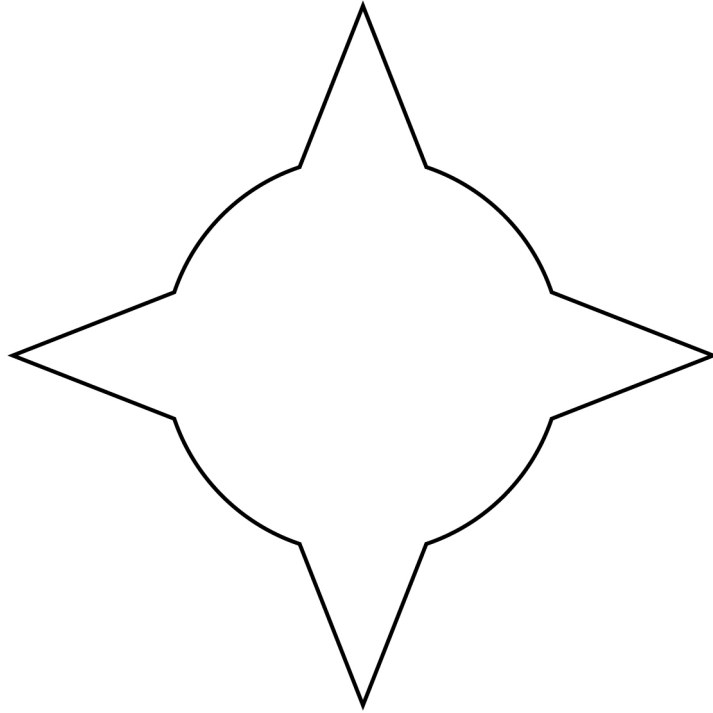


Answer _____ °

[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



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[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]



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 _____

[Turn over]

14



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**



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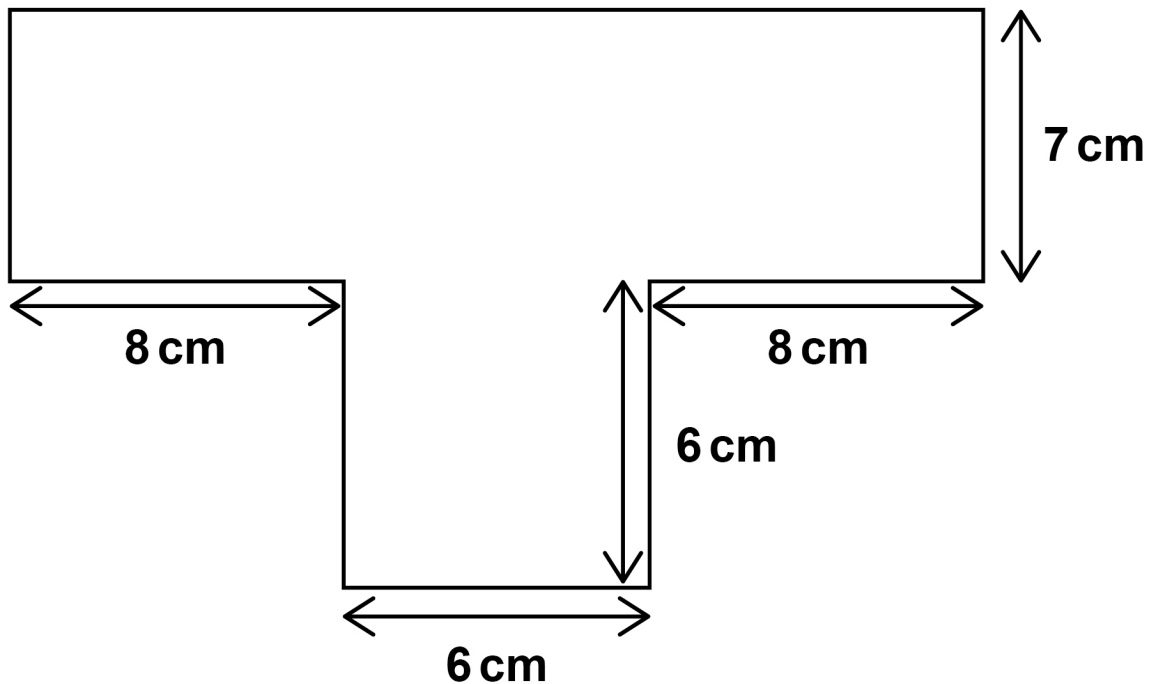
[Turn over]



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]

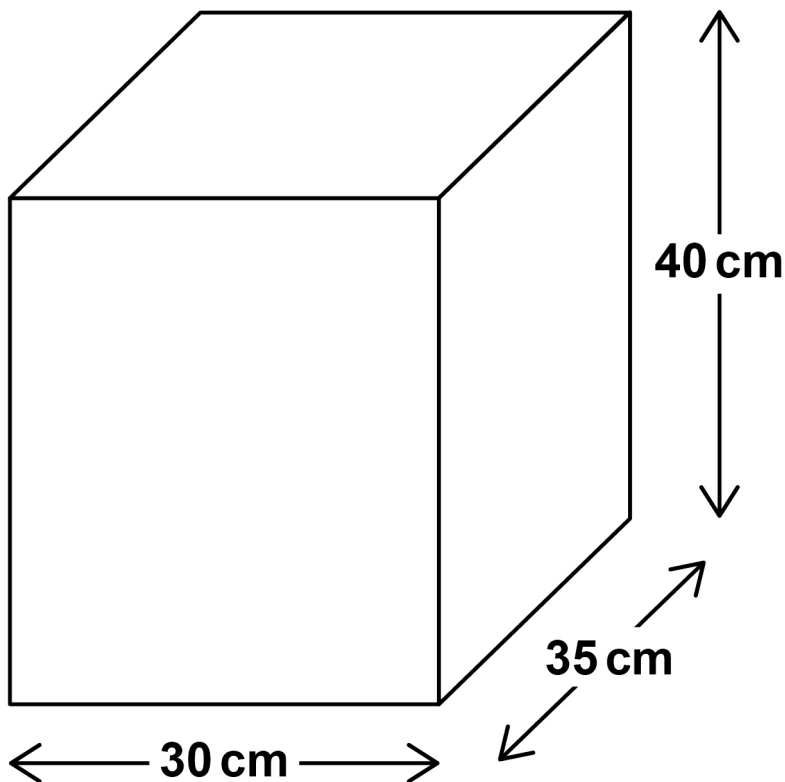
- 9 (c) **Brandon wants to buy a box large enough to hold 16 kg of flour.**

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 is not drawn accurately.



Can this box hold 16 kg of flour?

You MUST show your working. [4 marks]

[illegible]

[Turn over]

11



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]







- 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]

[illegible]

[Turn over]

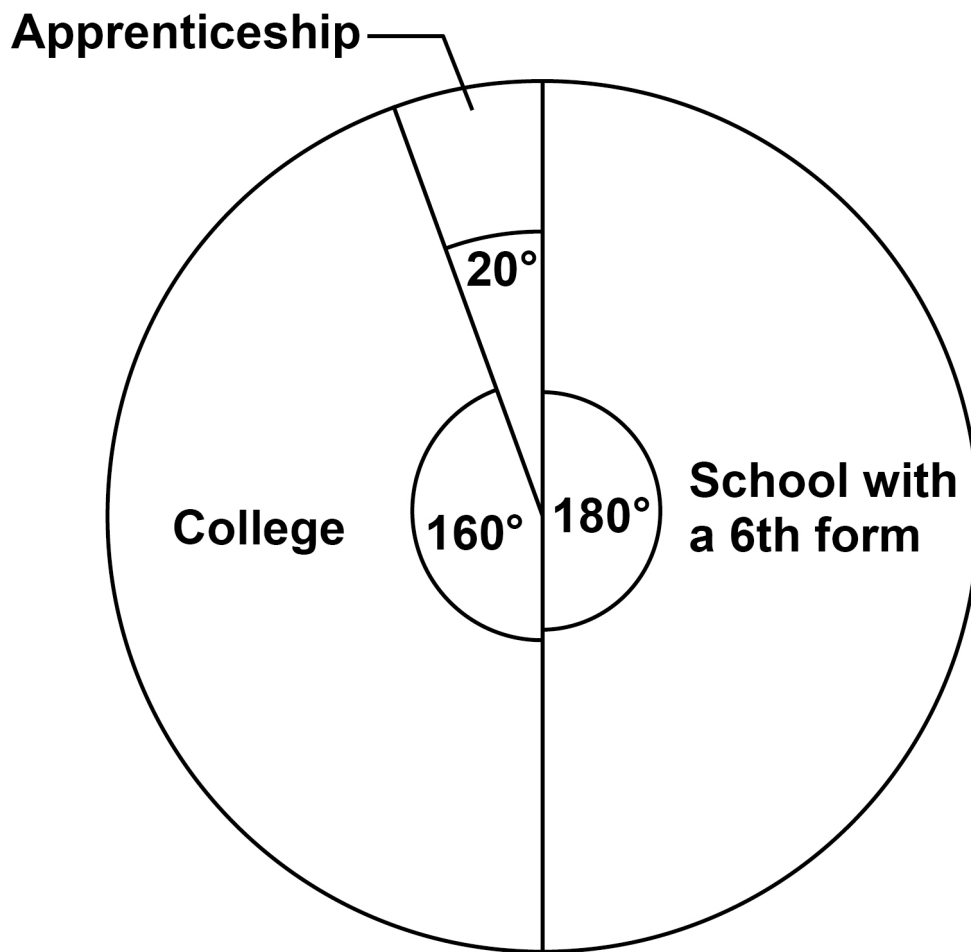
10



11 SCHOOL LEAVERS

Students leave a school at the end of Year 11

- 11(a) The pie chart shows what students did when they left the school last year.**



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]



[illegible]

END OF QUESTIONS



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.

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

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