

Please write clearly in block capitals.

Centre number

Candidate number

Surname \_\_\_\_\_

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

Candidate signature \_\_\_\_\_

I declare this is my own work.

# Functional Skills Level 1 MATHEMATICS

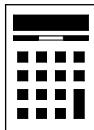
## Paper 2 Calculator

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.
- If your calculator does not have a  $\pi$  button, take the value of  $\pi$  to be 3.142

### Advice

In all calculations, show clearly how you work out your answer.

For Examiner's Use	
Question	Mark
1–7	
8	
9	
10	
11	
<b>TOTAL</b>	



**Section A**Answer **all** questions in the spaces provided.

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

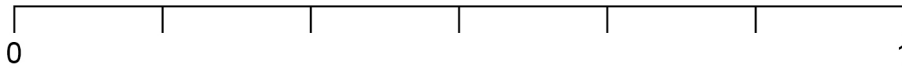
3289

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

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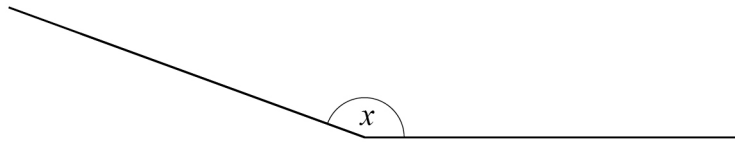
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Answer \_\_\_\_\_



- 4 Measure the size of angle  $x$ .

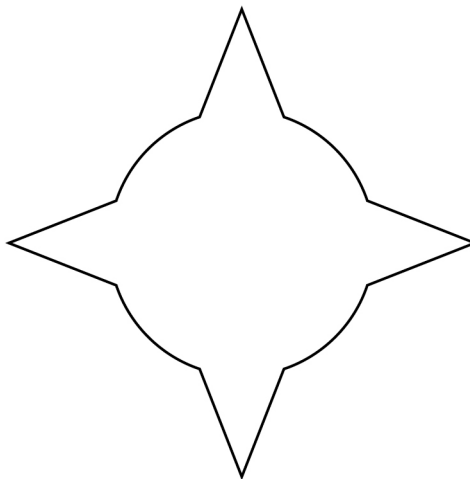
[1 mark]



Answer \_\_\_\_\_ °

- 5 Draw **all** the lines of symmetry on this shape.

[2 marks]



Turn over for the next question

Turn over ►



- 6 Work out which is smaller, 15% of 180 or 20% of 120  
You **must** show your working.

**[3 marks]**

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- 7 Here are five numbers.

37      58      19      12      58

Work out the range.

**[2 marks]**

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Answer \_\_\_\_\_

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**12**

**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]**

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**Question 8 continues on the next page**

**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]**

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Answer £ \_\_\_\_\_



- 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]**

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Answer \_\_\_\_\_

14

**Turn over for the next question**

**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]**

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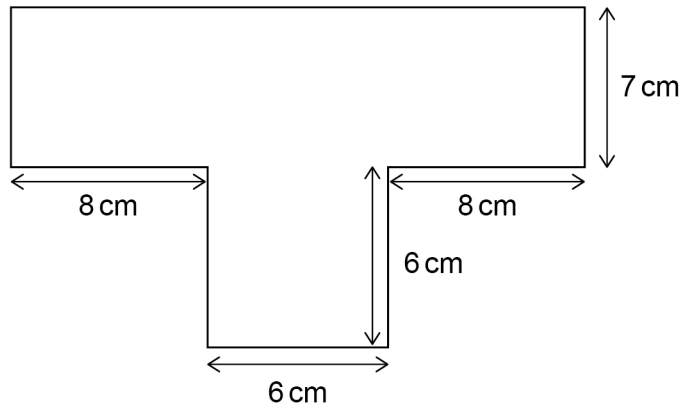
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Answer \_\_\_\_\_ g





9 (b) Brandon is making a birthday cake in a T shape.  
Here is a plan view of the cake.



Not drawn  
accurately

Brandon has enough icing for an area of  $200 \text{ cm}^2$

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

You **must** show your working.

[4 marks]

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Question 9 continues on the next page

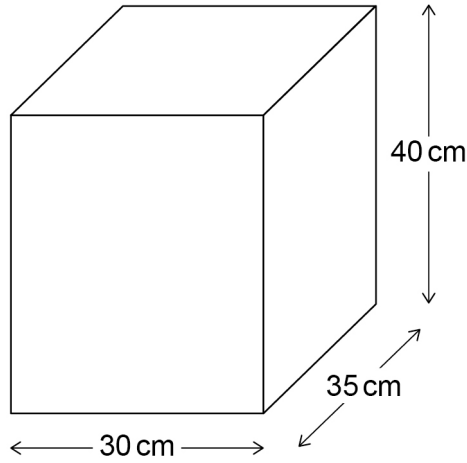
Turn over ►



- 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.



Not drawn  
accurately

Can this box hold 16 kg of flour?

You **must** show your working.

[4 marks]

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**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]**

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**Question 10 continues on the next page**

**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]**

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Answer £ \_\_\_\_\_



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outside the  
box

**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]**

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**Turn over for the next question**

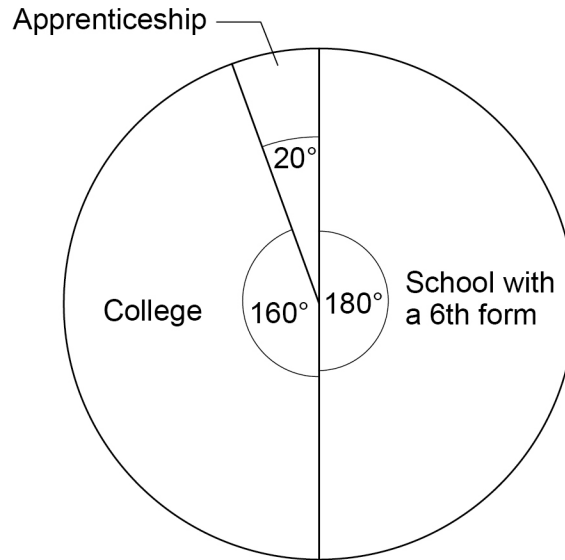
**Turn over ►**



**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]**

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Answer \_\_\_\_\_



**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]**

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Answer \_\_\_\_\_

**Question 11 continues on the next page**

**Turn over ►**







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outside the  
box*

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ANSWER IN THE SPACES PROVIDED**







