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LEVEL 1 & 2 EXAMS

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I declare this is my own work.

Functional Skills Level 2 MATHEMATICS

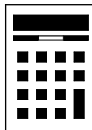
Paper 2 Calculator

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 π button, take the value of π 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	
TOTAL	



Section AAnswer **all** questions in the spaces provided.

- 1** Circle the **smallest** number.

[1 mark]

1

-5

-3

0

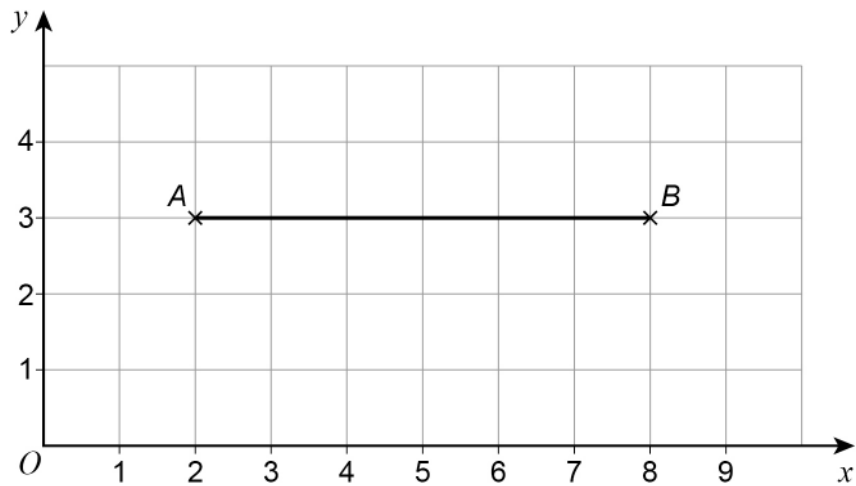
- 2** Complete the table to show equivalent fractions, decimals and percentages.

[3 marks]

Fraction	Decimal	Percentage
$\frac{17}{20}$	0.85	
$\frac{1}{25}$		4%
	0.59	59%



- 3 $A(2, 3)$ and $B(8, 3)$ are points on a grid.



Work out the coordinates of the **midpoint** of line AB .

[1 mark]

Answer (_____ , _____)

- 4 Here are six numbers.

7 10 13 7 15 8

Work out the median.

[2 marks]

Answer _____

Turn over ►



5 Express 76 as a percentage of 200

[1 mark]

Answer _____ %

6 Share 126 in the ratio 3 : 11

[2 marks]

Answer _____ and _____



- 7 Which is closer to 9.5
9.073 or 9.916 ?

You **must** show your working.

[2 marks]

Answer _____

12

Turn over for the next section

Turn over ►



Section B

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

8 Pets

- 8 (a)** Miya manages a pet shop.
She reduces the price of all fish tanks by 17%
She puts this sticker on one of the tanks.

Reduced by 17%
Was £195
Now £167.95

Has Miya calculated the new price correctly?
You **must** show your working.

[3 marks]

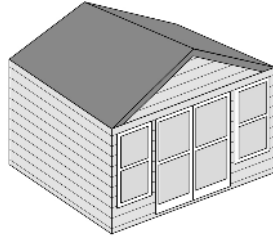


9 Summer house

Lisa is buying a summer house for her garden.

9 (a)

Summer house	£5964
Delivery charge	£2.25 per mile

**Payment plan**

Deposit of $\frac{2}{7}$ of the total price including delivery
then 12 equal monthly payments

Lisa buys the summer house, with a delivery charge for 84 miles.
She uses the payment plan.

Work out the deposit and the amount of each monthly payment.

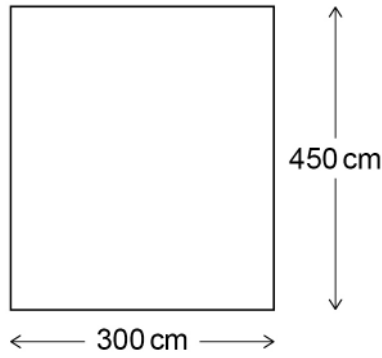
[6 marks]

Deposit £ _____

Monthly payment £ _____

Turn over ►

9 (b) The base of the summer house has dimensions 300 cm by 450 cm



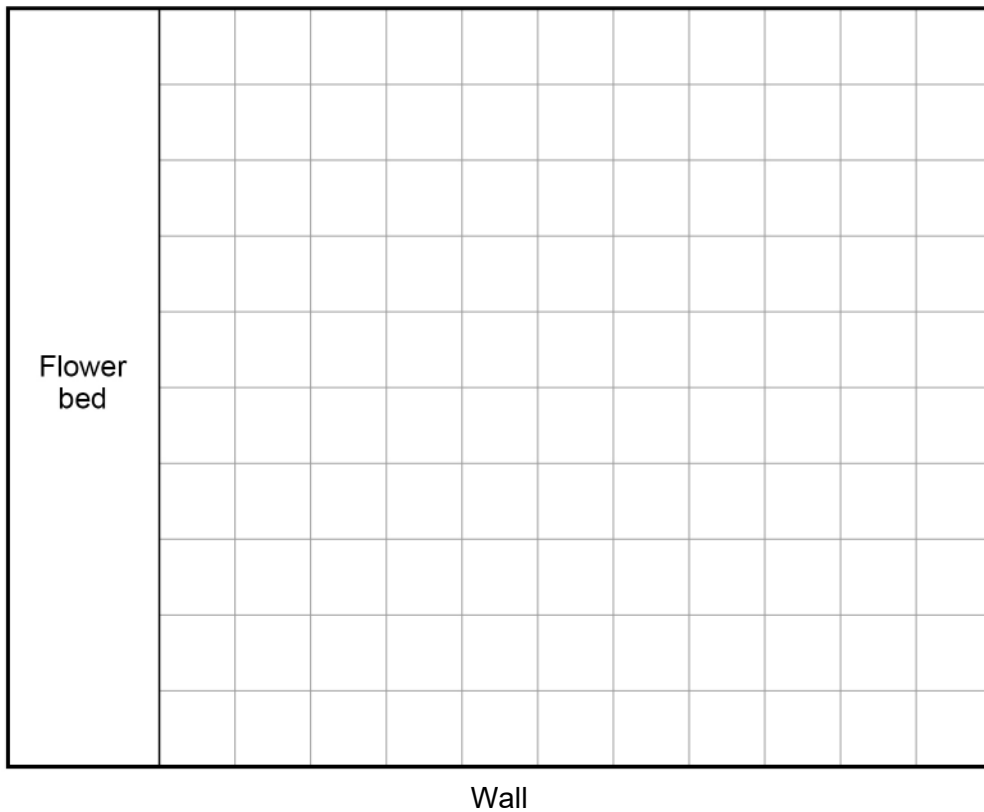
Not drawn
accurately

Lisa's garden is drawn to a scale of 1 to 100 on a centimetre grid.
There is a wall at the bottom of the garden and a flower bed down one side.
Lisa wants to put the summer house
at least 400 cm from the wall
and
at least 500 cm from the flower bed.

On the centimetre grid, show where Lisa can put the summer house.

[3 marks]

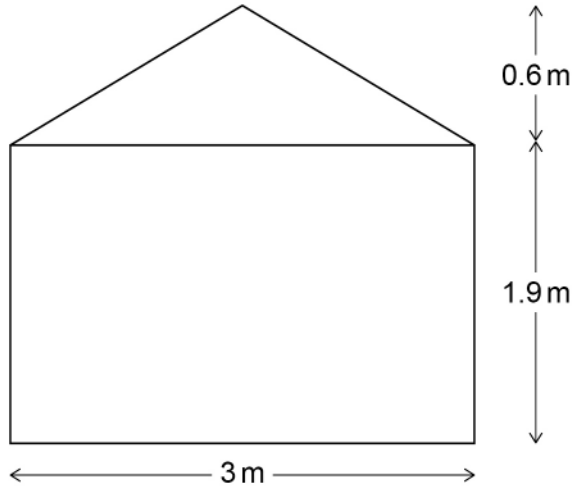
Scale: 1 to 100



- 9 (c) Lisa is buying a heater for the summer house.
To work out the correct heater size she uses the formula

$$\text{Minimum heater size (kW)} = \text{area of the front (m}^2\text{)} \times \text{length (m)} \times 0.058$$

Here is the front view of the summer house.



Not drawn
accurately

The length of the summer house is 4.5 m
Lisa can buy a 1 kW heater or a 2 kW heater.

Which heater should she buy?
You **must** show your working.

[5 marks]

Answer _____



There are no questions printed on this page

*Do not write
outside the
box*

**DO NOT WRITE ON THIS PAGE
ANSWER IN THE SPACES PROVIDED**





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