



Please write clearly in block capitals.

Centre number

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Candidate number

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Surname

Forename(s)

Candidate signature

Functional Skills Level 2

MATHEMATICS

Section A: Non-Calculator Paper

Section B: Calculator Paper

Paper A/B

Time allowed: 30 minutes / 1 hour 30 minutes

Materials

For this paper you must have:

- mathematical instruments.

You **must not** use a calculator for section A.

You may use a calculator for section B.

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.
- 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 section A is 15 and section B is 45.
- 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.

SECTION A : Non-Calculator

**Answer ALL questions.
Write your answers in the spaces provided.**

Turn over ►

- 1 Write the following numbers in order of size.

3.2 3.27 3.72 3.702 3.02

[1 mark]

Answer _____

- 2 Work out

$$1\frac{3}{5} + 2\frac{1}{4}$$

[2 marks]

Answer _____

- 3 The distance between two towns on a map measures 8 cm. The map has a scale of 1:25000

What is the actual distance between the two towns in km?

[1 mark]

Answer _____

Turn over for next question

4 Calculate $6.402 + 3.545$

[1 mark]

Answer _____

5 The distance an object has moved from its starting point, d , after an amount of time, t , is given by the formula

$$d = 29t^2$$

where d is measured in metres and t is measured in seconds.

Estimate the distance the object has travelled after 5.1 seconds.

[3 marks]

Answer _____

6 Calculate $4335 \div 6$

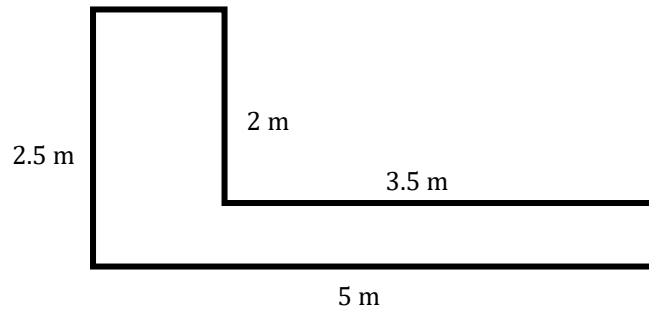
[1 mark]

Answer _____

Turn over for next question

7

Some painters are planning on painting a shape on a wall. They have drawn a sketch of the painting below.



Calculate the area the painters are planning on painting.

[3 marks]

Answer _____

8

It would take 7 hours for 3 people to paint the shape on the wall. How long would it take to paint the shape on the wall if another person joins, assuming that they all paint at the same rate?

[3 marks]

Answer _____

End of Section A

Turn over ►

SECTION B : Calculator

**Answer ALL questions.
Write your answers in the spaces provided.**

Turn over ►

- 9 Write in digits five hundred and seven thousand, seven hundred and twenty three.

[1 mark]

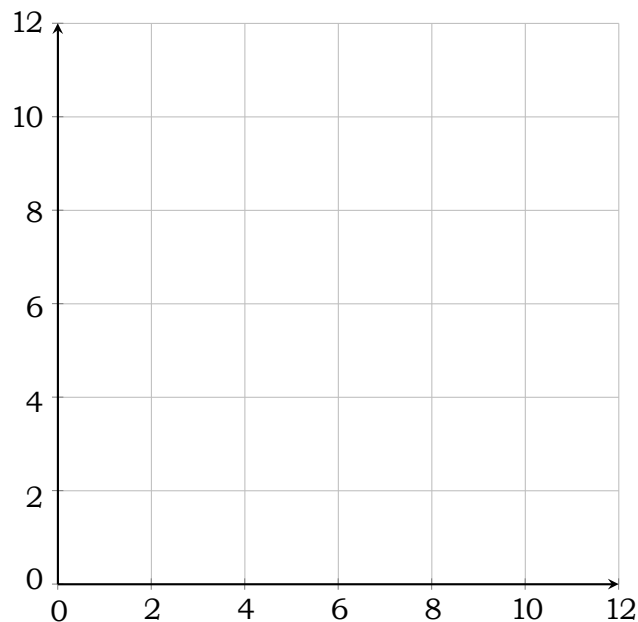
Answer _____

- 10 A manufacturing company produce metal fixings for a DIY retailer.
On one day the manufacturer produces 23040 fixings, of which 1920 are faulty.
What fraction of the fixings produced on this day were defective?
Give your answer in its simplest form.

[2 marks]

Answer _____

- 11 Plot the coordinate (4,3) on the graph below.

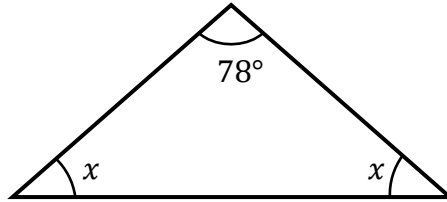


[1 mark]

Turn over for next question

Turn over ►

- 13 The diagram below shows an isosceles triangle. Find the missing angles in this isosceles triangle, labelled x .



[2 marks]

Answer _____

- 14 Jessie measures the heights of her 7 friends, and works out that their mean height is 1.73 m. She measures her own height and works out that the mean height of all of them is 1.74 m.

What is Jessie's height?

[3 marks]

Answer _____

Turn over for next question