

Please check the examination details below before entering your candidate information

Candidate surname

Other names

**Pearson Edexcel
Functional Skills**

Centre Number

Candidate Number

*****Past Paper 2*****

Time: 25 minutes

Paper Reference **PMAT2/N02**

Mathematics

Level 2

Section A (Non-Calculator)



You must have:

Pen, HB pencil, eraser, ruler graduated in cm and mm, protractor, pair of compasses. Tracing paper may be used.

Total Marks

My signature confirms that I will not discuss the content of the test with anyone.

Signature: _____

Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Sign the declaration.
- Answer **all** questions.
- Write your final answers in the boxes provided.
- Answer the questions in the spaces provided – *there may be more space than you need.*
- You **must** show clearly how you get your answers in the spaces provided. Marks will be awarded for your working out.
- Check your working and your answers at each stage.
- Diagrams are **not** accurately drawn, unless otherwise indicated.
- **Calculators may not be used.**
- Take the value of π to be 3.14

Information

- The total mark for this section is 16.
- The marks for each question are shown in brackets – *use this as a guide as to how much time to spend on each question.*
- This sign shows where marks will be awarded for showing your checks.

Advice

- Read each question carefully before you start to answer it.
- Check your answers if you have time at the end.

Turn over ►

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Pearson



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SECTION A

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

1 Here are the times, in seconds, five athletes took to finish a 100 m race.

11.05

10.94

11.12

10.91

11.12

(a) Find the median.

(2)

seconds

(b) Find the mode.

(1)

seconds

(Total for Question 1 is 3 marks)



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2 Here is a formula

$$h = \sqrt{a^2 - b^2}$$

Find the value of h when

$$a = 10 \text{ and } b = 8$$

(3)

(Total for Question 2 is 3 marks)

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- 3 Alex is the manager of a hospital canteen.
He reviews the meals the patients choose.

On Monday there were 240 patients in total.

$\frac{1}{3}$ of these patients chose pasta.

$\frac{3}{8}$ of these patients chose beef stew.

The other patients chose chicken.

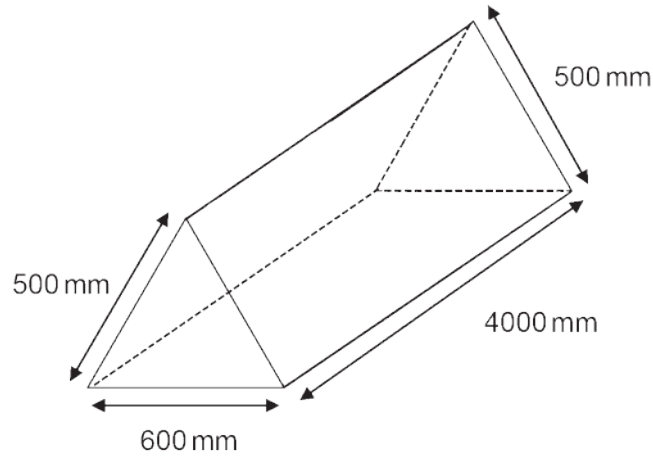
How many patients chose chicken on Monday?

(4)

(Total for Question 3 is 4 marks)



- 4 Roberto paints advertising boards.
Each board is in the shape of a triangular prism.



1 litre of paint covers 10m^2
Roberto has 2 litres of paint.

Roberto has 3 advertising boards to cover with paint.
He needs to cover all five faces of the triangular prism with paint.

The area of each triangular face is 0.12m^2

Will 2 litres of paint be enough to cover the 3 advertising boards?
You **must** show all your working.

(6)

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(Total for Question 4 is 6 marks)

TOTAL FOR SECTION A IS 16 MARKS



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