

Please check the examination details below before entering your candidate information

Candidate surname

Other names

**Pearson Edexcel
Functional Skills**

Centre Number

Candidate Number

Set 9

Time: 25 minutes

Paper Reference **PMAT2/N09**

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 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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P 6 9 1 9 2 A 0 1 0 8



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SECTION A

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

- 1 Shannan has a new car.

The petrol tank has a maximum capacity of 48 litres.

The cost of petrol is 126.7p per litre.

Shannan thinks it will cost less than £70 to completely fill an empty tank with petrol.

Use **estimation** to check if Shannan is correct.

You **must** show your working.

(3)

(Total for Question 1 is 3 marks)



P 6 9 1 9 2 A 0 3 0 8

- 2 Henry is designing the car park for a new shopping centre.
The total number of parking spaces at the shopping centre will be 900

150 of the parking spaces will be for staff.
The rest of the parking spaces will be for visitors.

Henry wants 6% of the visitor parking spaces to be parking spaces for disabled visitors.

Work out the number of parking spaces for disabled visitors in this car park.

(3)

(Total for Question 2 is 3 marks)

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3 Here is a list of numbers.

12.96 12.096 12.9 12.45 12.1 12.738 12.62

(a) Find the median.

(2)

(b) Work out $\frac{7}{8} - \frac{3}{5}$

You **must** show your working.

(2)

(Total for Question 3 is 4 marks)



P 6 9 1 9 2 A 0 5 0 8

- 4 Raffi wants a two-storey extension built on the side of his house.

This scale diagram shows the plan view of the floor for each storey.



Scale 1 : 50

Raffi looks at the websites for different builders.

The table shows the cost per m² to build a one-storey extension.

Builder	A	B	C	D	E	F	G	H
Cost per m ² (£)	1300	1350	1300	1325	1300	1340	1350	1290

Raffi will use the mode of these costs to help work out the expected cost to build this two-storey extension.

He also knows that the cost per m² to build a two-storey extension is $1\frac{1}{2}$ times the cost per m² to build a one-storey extension.

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Work out the expected cost to build the two-storey extension for Raffi.
You **must** show your working.

(6)

£

(Total for Question 4 is 6 marks)

TOTAL FOR SECTION A IS 16 MARKS



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