

Please check the examination details below before entering your candidate information

Candidate surname

Other names

**Pearson Edexcel
Functional Skills**

Centre Number

Candidate Number

Set 7

Time: 25 minutes

Paper Reference **PMAT2/N07**

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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SECTION A

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

- 1 Here is some data.

146 97 109 97 141 146 103 97 94 94

- (a) Find the mode of this data.

(1)

- (b) Work out $17.456 - 6.072$
Show your working.

(2)

(Total for Question 1 is 3 marks)



P 6 8 4 6 6 A 0 3 0 8

2

Work out $2\frac{5}{6} + 9\frac{1}{3}$

Give your answer as a mixed number.
You **must** show your working.

(3)

(Total for Question 2 is 3 marks)

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- 3** Lara wants to join a cycling club.
The club website states that the average speed of club rides is 15 miles per hour.

Lara goes on a ride to work out her average speed.
She rides 60 km in 3 hours.

1 mile = 1.6 km

Lara thinks that her average speed is lower than the average speed of club rides.

- (a) Is she correct?
Show why you think this.

(3)



- (b) Show a check of your answer.

(1)

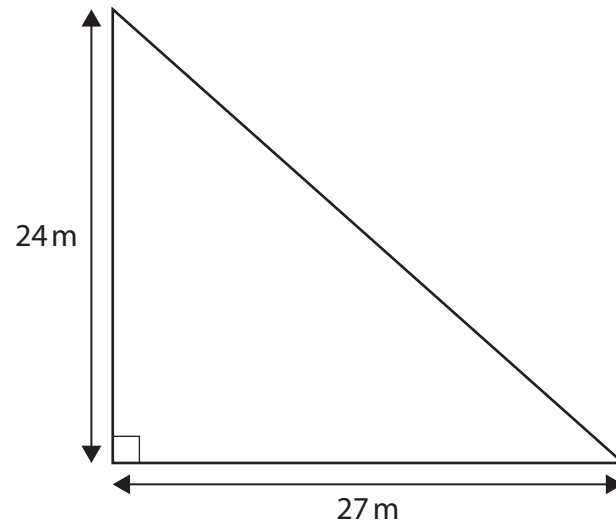
(Total for Question 3 is 4 marks)



P 6 8 4 6 6 A 0 5 0 8

- 4 Bart is the manager at a building site.
He needs to lay a concrete foundation.

The diagram shows the ground space for the concrete foundation.



The depth of concrete will be 0.3 m

Concrete is delivered in concrete mixer trucks.
Each mixer truck holds 6 m^3 of concrete.

How many mixer trucks of concrete does Bart need in total for the concrete foundation? (6)



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(Total for Question 4 is 6 marks)

TOTAL FOR SECTION A IS 16 MARKS



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