Candidate surname

Other names

**Pearson Edexcel
Functional Skills**

Centre Number

Candidate Number

Past Paper 6

Time: 1 hour 30 minutes

Paper Reference **PMAT1/C06**

Mathematics

**Level 1
Section B (Calculator)**

You must have:
Pen, calculator, 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 be used**.
- If your calculator does not have a π button take the value of π to be 3.14

Information

- The total mark for this section is 42.
- The total mark for this paper is 56.
- 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 ▶

Pearson

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

1 Alan takes part in a health study.

He records the time he spends looking at different screens on Monday.

computer	5.5 hours
mobile phone	40 minutes
TV	$3\frac{3}{4}$ hours

Alan thinks he spent more than 10 hours in total looking at different screens on Monday.

Is Alan correct?
Show why you think this.

(3)

(Total for Question 1 is 3 marks)

2 Sarah sees this poster about results of a survey about favourite meals in the school canteen.

Favourite meals of 180 students

☐ fish

▨ pasta

■ lamb

⊡ chicken
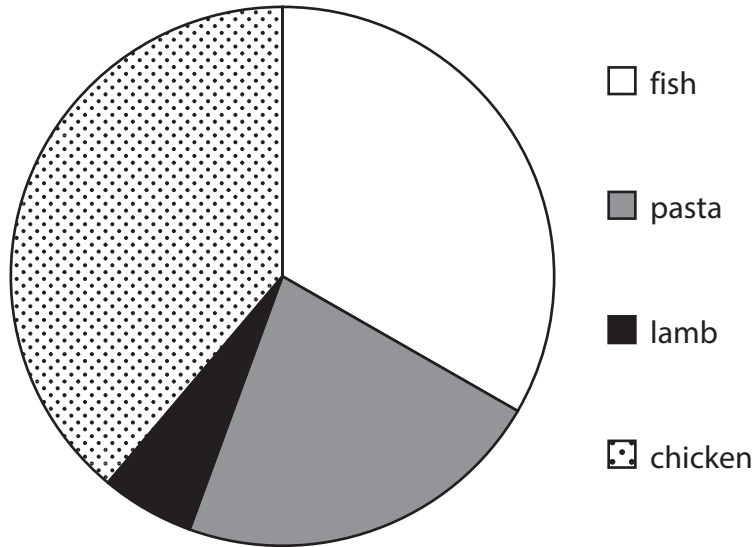
She decides to write a comment about the results on social media.

How many students chose fish as their favourite meal?
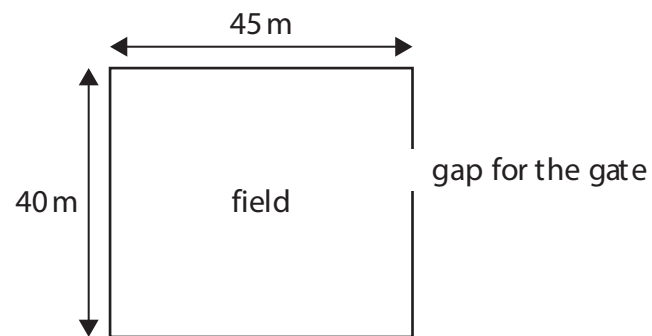You **must** show all your working.

(4)

students

(Total for Question 2 is 4 marks)

Turn over ▶

3 Patrick needs to put fence panels around a field.

The field is in the shape of a rectangle.

45 m

40 m   field   gap for the gate

Patrick will leave a gap of 260 cm for a gate.

Each fence panel is 1.8 m long.
Patrick can cut and join the fence panels.

Work out the total number of fence panels Patrick needs to put around this field.

(5)

fence panels

(Total for Question 3 is 5 marks)

4 Varna works in a bookshop.

The table shows the number of books she sold in the last four weeks.

week	1	2	3	4
number of books sold	175	120	215	150

Varna begins to show this information in a chart.

On the grid, complete a suitable chart for Varna.

(3)

25

0
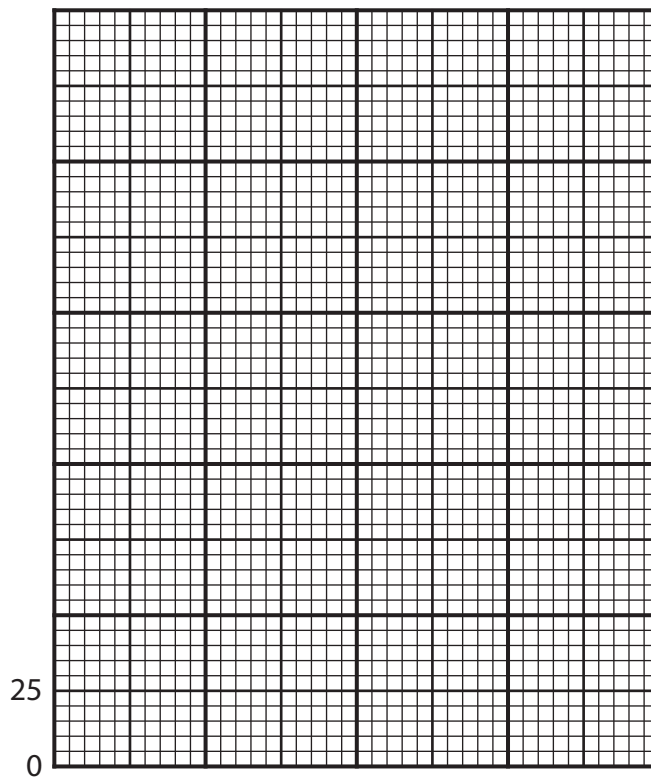
(Total for Question 4 is 3 marks)

5 Joe sells cars.

He sold 840 cars last year.
720 of these cars were petrol cars.
All the other cars he sold were electric cars.

Joe writes a report for his manager.

He states,

"I sold 6 times as many petrol cars as electric cars last year."

Is this statement correct?
You **must** show your working.

(3)

(Total for Question 5 is 3 marks)

6 Raphael owns a barber shop.

The table shows the number of customers who had a haircut last week at the shop.

Mon	Tue	Wed	Thu	Fri	Sat	Sun
58	64	49	73	89	96	103

The price of a haircut was £8

Next week Raphael will

- increase the price of a haircut by 25%
- have the same mean daily number of customers.

Raphael thinks his mean daily income next week will be more than £750

Is Raphael correct?
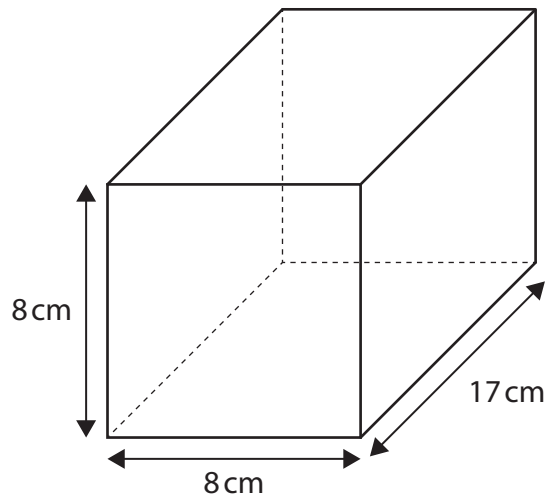Show why you think this.

(6)

(Total for Question 6 is 6 marks)

7 Here is a cuboid.

Calculate the volume of the cuboid.
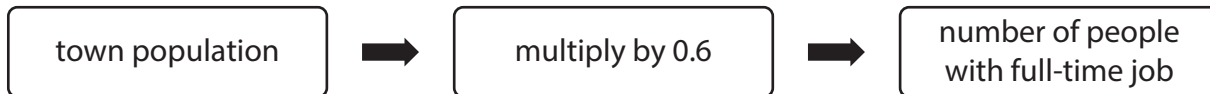Remember to give units with your answer.

(3)

(Total for Question 7 is 3 marks)

8 Anju works at a town hall.

The town population is four hundred and seventy thousand and fifteen.

Anju uses this rule to work out how many people in the town have a full-time job.

| town population | ➡ | multiply by 0.6 | ➡ | number of people with full-time job |

Anju thinks 272 019 people in the town have a full-time job.

Is Anju correct?
Show why you think this.

(3)

(Total for Question 8 is 3 marks)

9 Wesley is planning his new bathroom.
He will put a bath and a sink in the bathroom.

The bath needs

- a rectangular space 1.75 m by 1 m
- to be against the back wall
- to be an equal distance from both side walls.

The sink needs

- a square space 0.5 m by 0.5 m
- to be against a side wall
- to be at least 1 m from the bath
- to be at least 1 m from the doorway.

Show a space for the bath and a space for the sink on the grid.
Remember to use the scale and label each item.

(4)

side wall

back wall

doorway

side wall
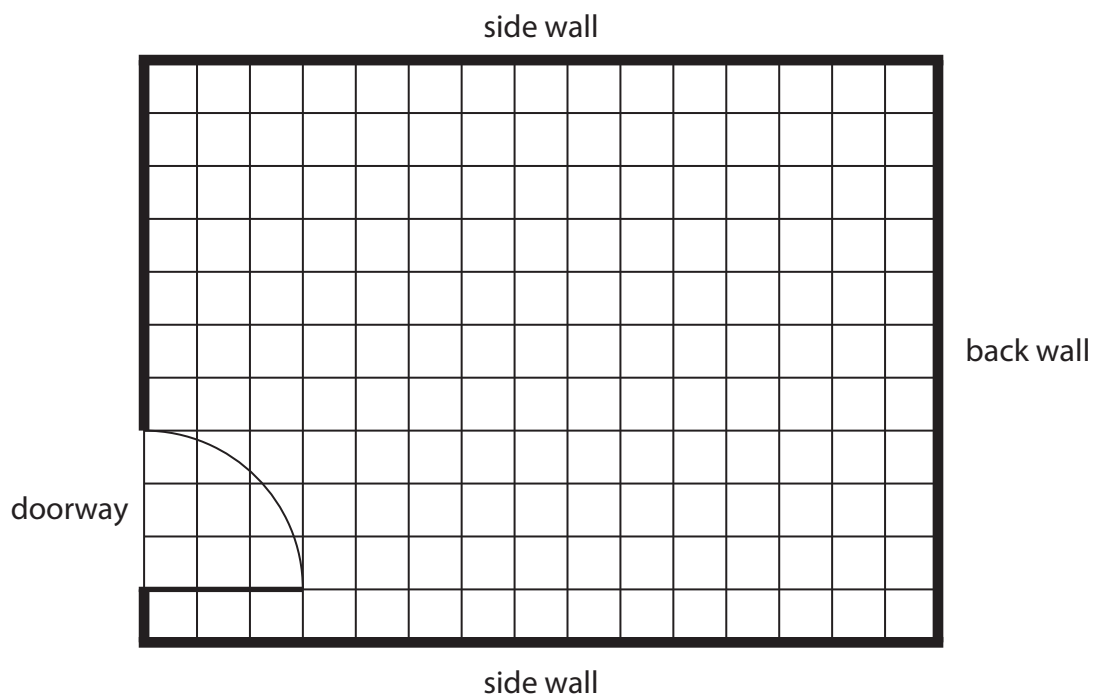
Key
1 square on the grid is 0.25 m by 0.25 m in the bathroom

(Total for Question 9 is 4 marks)

10 Here are some numbers.

27.5   −17.3   63.1   4.6   −42.4   39.8   −9.7   58.6

(a) Work out the range of these numbers.

(2)

(b) Show a check of your answer.

(1)

(Total for Question 10 is 3 marks)

Turn over ▶

11 Charly is organising a party.
She needs to buy 90 party plates.

She finds this offer.

pack of 6 plates

normal price £3.55
now $\frac{1}{5}$ off the normal price

Charly has £45 to spend on the plates.

Does Charly have enough money to buy 90 plates?
Show why you think this.

(5)

(Total for Question 11 is 5 marks)

TOTAL FOR SECTION B IS 42 MARKS
TOTAL FOR PAPER IS 56 MARKS

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