

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 4\*\*\***

Time: 1 hour 30 minutes

Paper Reference **PMAT1/C04**

**Mathematics**

**Level 1**

**Section B (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.
- Diagram are **not** accurately drawn, unless otherwise indicated.
- **Calculators may be used.**
- If your calculator does not have a  $\pi$  button take the value of  $\pi$  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 ►

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## SECTION B

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

- 1** Mia has a job interview at 9:20 am.

When Mia wakes up she will need

- $1\frac{3}{4}$  hours to get ready
- 25 minutes to walk to the interview.

What is the latest time Mia needs to wake up?

(3)

am

**(Total for Question 1 is 3 marks)**

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2 Jonathan is writing a report about recycling in the local town.

In 2019

- there were 2170 people living in the town
- each person in the town recycled an average of 395.4 kg of waste.

Jonathan knows that 1 tonne = 1000 kg.

- (a) How many tonnes of waste were recycled in the town in total in 2019?  
Give your answer correct to 2 decimal places.

(3)

tonnes



- (b) Use estimation to show a check of your answer.

(1)

(Total for Question 2 is 4 marks)



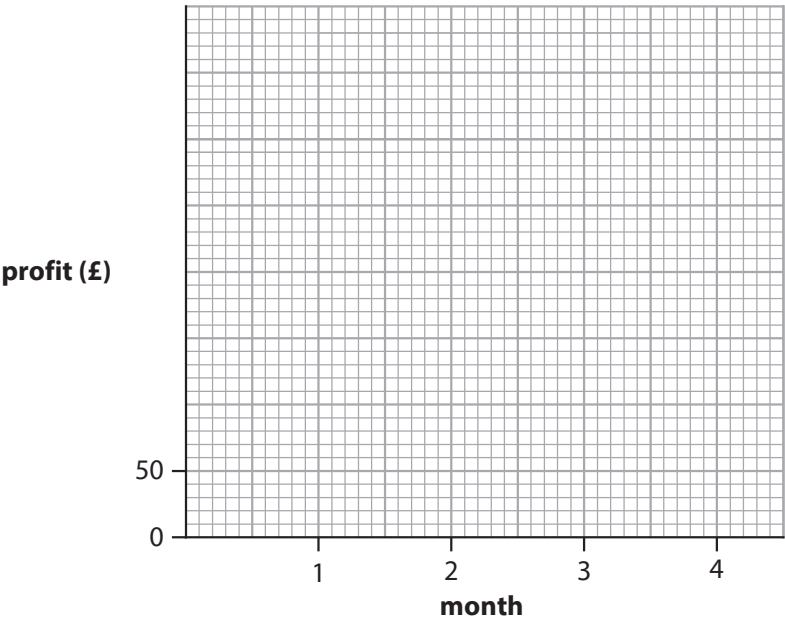
3 Layla starts a business making and selling scarves.

The table shows information about the profit she makes in the first four months.

| month      | 1   | 2   | 3   | 4   |
|------------|-----|-----|-----|-----|
| profit (£) | 200 | 180 | 220 | 275 |

(a) Draw a graph for this information on the grid below.

(2)



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Layla gives

- 120 scarves to Shop A to sell
- 152 scarves to Shop B to sell.

Shop A sold 15% of its 120 scarves.

Shop B sold an eighth of its 152 scarves.

- (b) Which shop sells the most scarves?  
You **must** show your working.

(3)

(Total for Question 3 is 5 marks)



P 6 7 2 8 2 A 0 5 1 6

4 On Monday Selma has £202.69 in her bank account.

Selma needs to pay a bill of £465.20 from the account on Wednesday.

She will pay some money into the account on Tuesday so that there is

- enough money in the account to pay the bill
- £10 left in the account after the bill has been paid.

No other payments occur.

How much money does Selma pay into the account on Tuesday?

(3)

£

(Total for Question 4 is 3 marks)

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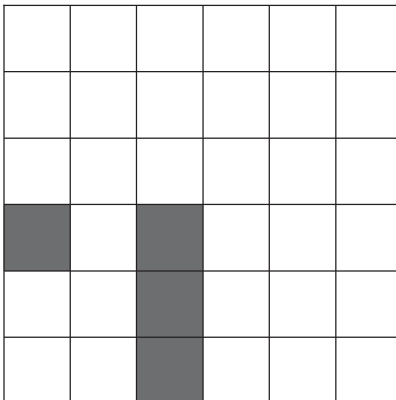
5 Kelly is designing a pattern on a grid.

The pattern must

- cover all the grid
- use only black squares and white squares
- have exactly 2 lines of symmetry.

(a) Complete the pattern on the grid.

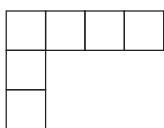
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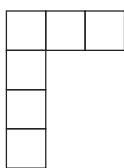
(b) Which **one** of these nets will make a cube?

Tick [✓] a net to show your answer.

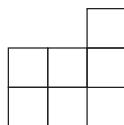
(1)



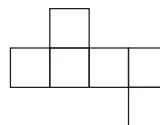
A [ ]



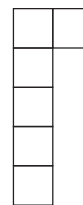
B [ ]



C [ ]



D [ ]



E [ ]

(Total for Question 5 is 3 marks)



6 Carl is running a charity race.

Here is a map for part of the route.

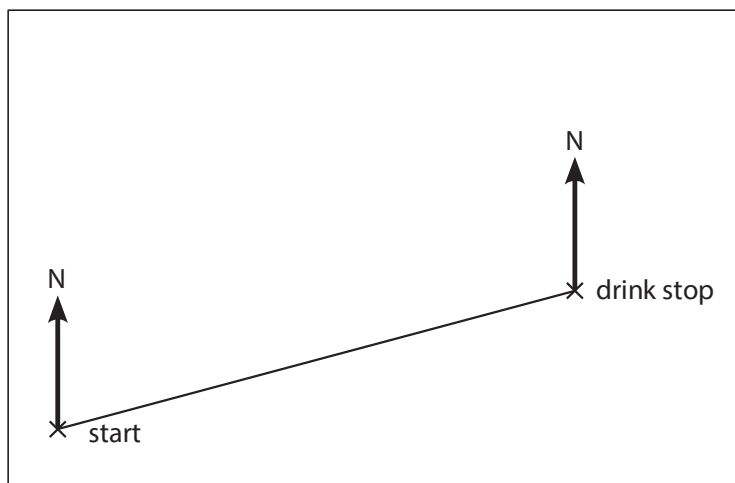


Diagram drawn  
accurately

Carl wants to know the bearing of the route.

(a) Find the bearing of the drink stop from the start.

(1)

Carl is running the race as part of a team.

The table shows the running times for all the team members.

| team member            | Brenda | Carl | Dillon | Ebony | Fred |
|------------------------|--------|------|--------|-------|------|
| running time (minutes) | 47     | 42   | 53     | 40    | 38   |

(b) Work out the range of the running times.

(2)

minutes

The same team ran the race last year.

The mean running time for the runners in the team last year was 45 minutes.

Carl thinks that the mean running time for the runners in the team this year is less than 45 minutes.

(c) Is Carl correct?  
Show why you think this.

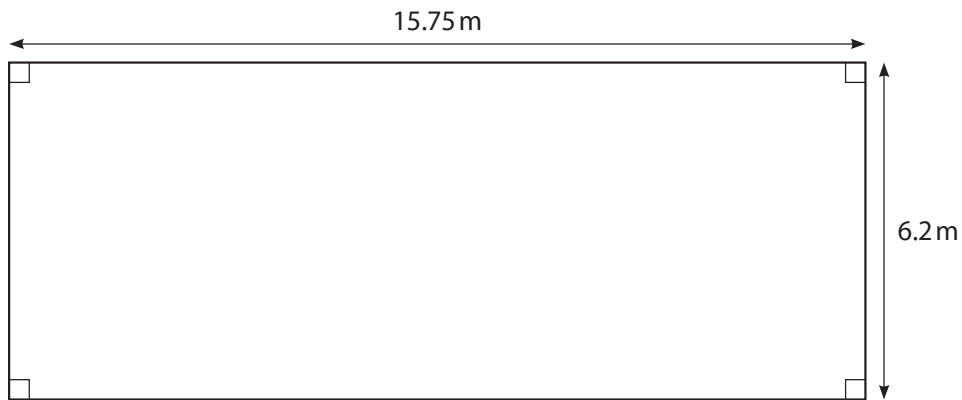
(3)

(Total for Question 6 is 6 marks)



7 Jasmine has an allotment.

The allotment is in the shape of a rectangle.



Jasmine wants to put a fence around the edge of the allotment.

There needs to be a gap in the fencing of 1.5 m for a gate.

Fencing is sold in whole metres.

Work out the length of fencing Jasmine needs to buy.

(3)

m

(Total for Question 7 is 3 marks)

8 Samir is planning a new kitchen.

He has this diagram of one of the walls.

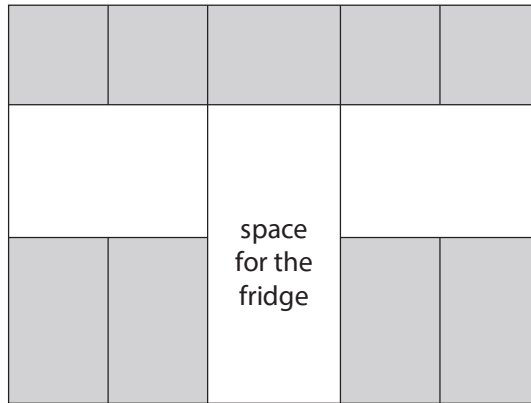


Diagram drawn  
accurately

**Key** 1 cm on the diagram represents 40 cm on the wall



kitchen cabinet

The diagram shows the space for a fridge.

Samir has these fridges to choose from.

| fridge | A       | B        | C        | D        |
|--------|---------|----------|----------|----------|
| width  | 54.5 cm | 54.5 cm  | 69.5 cm  | 91 cm    |
| height | 182 cm  | 177.5 cm | 178.8 cm | 179.5 cm |

Samir wants to buy the largest fridge possible to fit in this space.

Which fridge should Samir choose?  
Show why you think this.

(3)

(Total for Question 8 is 3 marks)



9 Rita wants to buy an oak shelf from a shop.

The normal price of the shelf is £170

The shop has this offer.

45% off the normal price

Rita will use this offer.

She has a budget of £100 to buy the shelf.

(a) Can Rita buy the shelf?

(3)



(b) Use a reverse method to show a check of your answer.

(1)

(Total for Question 9 is 4 marks)

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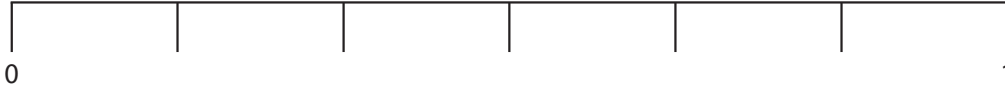


10 Tom rolls an ordinary fair dice.



(a) Mark with a cross (X) on the scale the probability that Tom rolls an even number.

(1)



Tom has a fair dice with 12 faces of equal size.

There is one number on each face.

The numbers are 1 to 12

Tom rolls the dice and looks at the number on the top face.



(b) What is the probability that this number is more than 5?

(2)

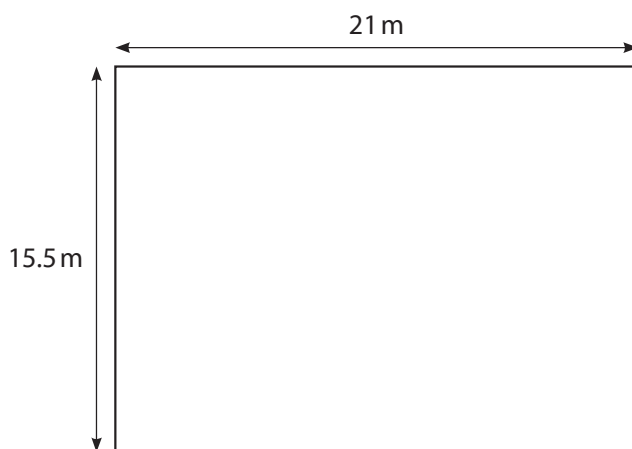
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|--|
|  |
|  |

(Total for Question 10 is 3 marks)



11 Georgia is an office manager.

The office floor is in the shape of a rectangle.  
The diagram shows the floor space of the office.



A total of 65 people work in the office.  
Each person needs at least  $4 \text{ m}^2$  of floor space to work in.

Georgia wants to increase the number of people working in the office by 20%.

She thinks that each person will still have at least  $4 \text{ m}^2$  of floor space to work in.

Is Georgia correct?  
Show why you think this.

(5)

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(Total for Question 11 is 5 marks)

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



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