

Please check the examination details below before entering your candidate information

Candidate surname

Other names

Centre Number

Candidate Number

Pearson Edexcel Functional Skills

Set 9

Time: 25 minutes

Paper Reference **PMAT1/N09**

Mathematics

Level 1

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 14.
- 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

(a) Work out 35^2

(2)

(b) Write 325 grams in kilograms.

(1)

 kg

(Total for Question 1 is 3 marks)

2



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- 2 Carla needs to fill her car with diesel.

She sees the price of diesel in a service station.

Diesel
160p per litre

- (a) Write the price of diesel in pounds.

(1)

£

Carla needs to buy 30 litres of diesel.

Diesel
160p per litre

She has £40

- (b) Does Carla have enough money to buy 30 litres of diesel?

(2)

(Total for Question 2 is 3 marks)



- 3 Keira wants to be an apprentice.
She wants to apply to the company that has the greatest number of apprentices.

Company A has 80 employees.
20% of the employees are apprentices.

Company B has 300 employees.
5% of the employees are apprentices.

- (a) Which company has the greatest number of apprentices?

(3)



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

(1)

(Total for Question 3 is 4 marks)



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- 4 The distance between Calais and Nice is 1195 km.

- (a) Write 1195 in words.

(1)

3 friends will drive a total distance of 1225.3 km.
They will share the driving equally.

They estimate each person will drive 295 km.

- (b) Use **estimation** to work out if each person will drive 295 km.
You **must** show your working.

(3)

(Total for Question 4 is 4 marks)

TOTAL FOR SECTION A IS 14 MARKS



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Please check the examination details below before entering your candidate information

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Other names

Pearson Edexcel Functional Skills

Set 9

Time: 1 hour 30 minutes

Paper Reference **PMAT1/C09**

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 ▶

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SECTION B

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

- 1 Marlene competes in sprint races.
She wants to qualify to race in a team.

Here are the times, in seconds, of her last 4 races.

24.99 23.07 23.7 24.54

Marlene needs the mean time of her last 4 races to be less than 23.9 seconds to qualify.

Is the mean time of her last 4 races less than 23.9 seconds?

(3)

(Total for Question 1 is 3 marks)



- 2 Rio has a mobile car wash business.
He has a tank for water in his van.

The tank is in the shape of a cuboid 0.9 m wide and 0.9 m long.
When full, the water in the tank is 0.4 m deep.

Rio uses 45 litres of water to wash each car.

$$1\text{m}^3 = 1000 \text{ litres}$$

Rio thinks there is enough water in a full tank to wash 8 cars.

Is Rio correct?
Show why you think this.

(4)

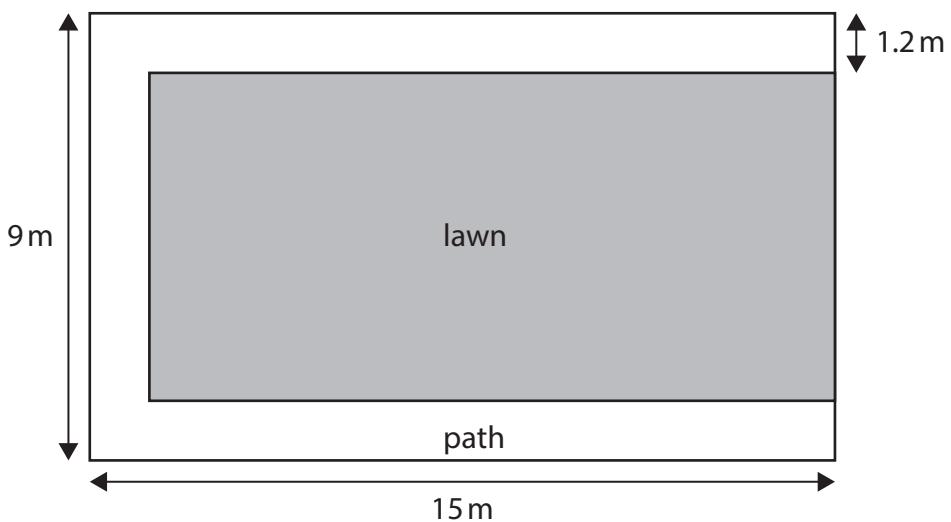
(Total for Question 2 is 4 marks)



- 3 Ella is making a path around three sides of her lawn.
The lawn is in the shape of a rectangle.

The width of the path will be 1.2 m

All corners on the path are right angles.



Ella will cover the path with gravel.

Gravel is sold in bags.

Each bag of gravel covers 3m^2

Work out the number of bags of gravel Ella needs to buy to cover the path.

(5)



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(Total for Question 3 is 5 marks)



- 4** Colin wants to buy a new television.
He sees this offer.

Television

Normal price £599

Now 35% off the normal price

Colin uses the offer.

Work out the price of the television using the offer.

(3)

£

(Total for Question 4 is 3 marks)



- 5 Jessica wants to sell her house.

She has this information about the selling prices of houses in her street.

£199 000 £195 500 £225 550 £190 995 £229 000

Jessica thinks the range of these selling prices is more than £35 000

(a) Is Jessica correct?

Show why you think this.

(2)



(b) Show a check of your answer.

(1)

(Total for Question 5 is 3 marks)



6

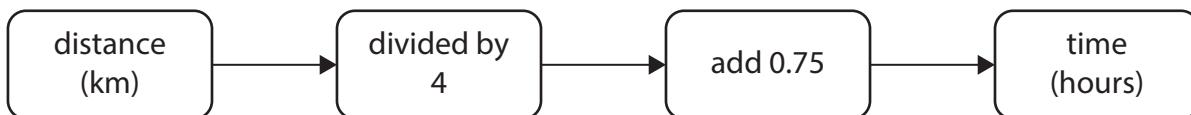
- (a) Write 35% as a decimal.

(1)

Pete uses a map to plan a route for walking.
The route he will walk today is 14 cm on the map.

1 cm on the map represents 2.5 km on the route

Pete uses this rule to work out the time needed to walk the route.



- (b) Work out the time needed to walk the route.
Give your answer in **hours** and **minutes**.

(5)



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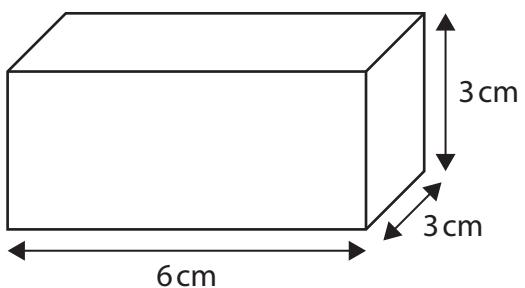


P 6 8 4 7 3 A 0 9 1 6

hours minutes

(Total for Question 6 is 6 marks)

7 Here is a cuboid.



Draw a net of the cuboid.

Use the centimetre grid below to draw your net.

(3)



(Total for Question 7 is 3 marks)



- 8 Layla buys a box of doughnuts.
Each doughnut is filled with either jam or apple or chocolate.

In the box there are

- 7 jam doughnuts
- 15 apple doughnuts
- 18 chocolate doughnuts.

Layla opens the box and picks a doughnut at random.

- (a) What is the probability that Layla picks a jam doughnut?

(2)

The probability that a person does not like doughnuts is $\frac{1}{10}$

- (b) Which of these words describes this probability?

(1)

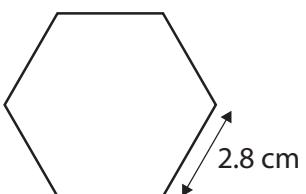
Tick [✓] a box to show your answer.

- [] impossible
- [] unlikely
- [] even
- [] likely
- [] certain

(Total for Question 8 is 3 marks)



9 Here is a regular hexagon.



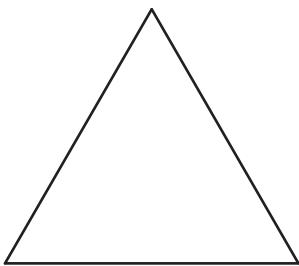
(a) Calculate the perimeter of this hexagon.

(2)

cm

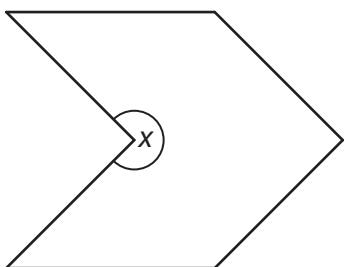
(b) Draw a line of symmetry on this equilateral triangle.

(1)



Here is a polygon.

One angle is labelled with the letter x.



(c) Select the word that describes the angle labelled with the letter x.

(1)

Tick [✓] a box to show your answer.

- [] acute [] obtuse [] reflex [] right [] opposite

(Total for Question 9 is 4 marks)



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- 10** Marlon is doing a survey about exercise.
He asks 100 people how many times a week they exercise.

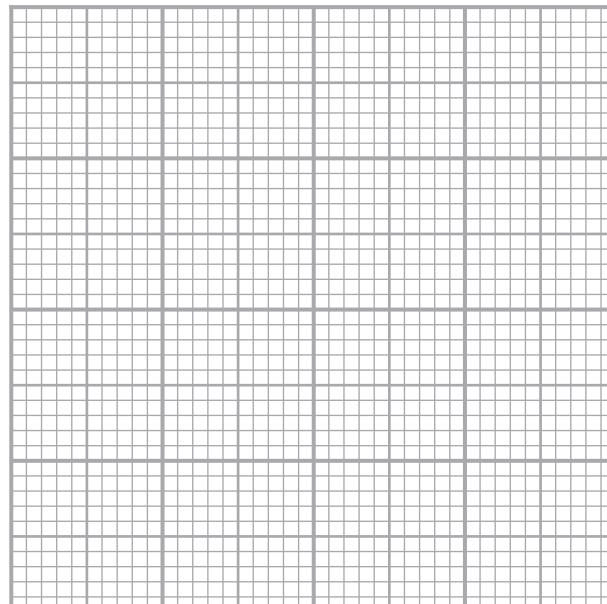
The results are shown in the table.

number of times	number of people
0 to 1	10
2 to 3	64
4 to 5	18
6 to 7	8

Marlon wants to show this information on a graph.

Draw a suitable graph for Marlon.

(3)



(Total for Question 10 is 3 marks)



11 Jon is tiling a swimming pool.
He needs to buy 120 boxes of tiles in total.

He buys boxes of blue tiles and boxes of white tiles in the ratio 1 : 4

Each box of blue tiles costs £23.99
Each box of white tiles costs £16.75

Work out the total cost of all the tiles Jon needs.
You **must** show your working.

(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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