

Please check the examination details below before entering your candidate information

Candidate surname

Other names

Centre Number

--	--	--	--	--

Candidate Number

--	--	--	--

Predicted Paper 2

Time: (1 hour 30 minutes)

Mathematics

Paper 2 (Calculator)
Foundation Tier



4th June 2025

Total Marks

Instructions

- Use black ink or ball-point pen.
- If pencil is used for diagrams/sketches/graphs it must be dark (HB or B).
- Fill in the boxes at the top of this page with your name, center number and candidate number.
- Answer all questions.
- Answer the questions in the spaces provided – there may be more space than you need.
- **There are 80 marks. You have 1 hour and 30 minutes!**
- You must show all your working.
- Diagrams are NOT accurately drawn, unless otherwise indicated.
- Calculators may not be used.

FOR MORE MATHSWITHDAN RESOURCES, SCAN THE QR CODES:





Hello there! I hope your revision is going splendidly and Paper 1 went well for you!

Welcome to my Predicted Paper 2 for GCSE Maths Foundation Summer 2025!
My name is Dan, I am a full-time GCSE and A Level Maths tutor with a First-Class degree in BSc Mathematics.

After reviewing what did and didn't appear in Paper 1, I've carefully put this Paper 2 together to reflect the topics that are most likely to come up – based on past exam trends and the gaps left by Paper 1.

This paper includes a variety of questions gathered from past exam papers (all publicly available) as well as original questions written by me. I've uploaded a full video walkthrough for this paper on my YouTube channel – it's a great way to check your answers and understand the methods. You can access it by scanning the QR code below or in the top right corner of each page.

Make sure you attempt the paper FIRST before watching the video!

DISCLAIMER:

There is no guarantee the topics in this paper will come up. Use this paper as extra practice alongside comprehensive revision. Good luck!!!

SCAN THE QR CODE FOR THE ENTIRE WALKTHROUGH





Answer ALL questions.

Write your answers in the spaces provided.

You must write down all the stages in your working.

- 1 Write 3095 correct to the nearest 100.

.....
(Total for Question 1 is 1 mark)

- 2 Write 0.08 as a fraction in its simplest form.

.....
(Total for Question 2 is 1 mark)

- 3 Change 7.2 kilograms into grams.

.....
(Total for Question 3 is 1 mark)

- 4 Simplify $b + b + b + b$

.....
(Total for Question 4 is 1 mark)

- 5 Here is a list of numbers

9 12 16 18 20 24

From the list, write down a multiple of 6.

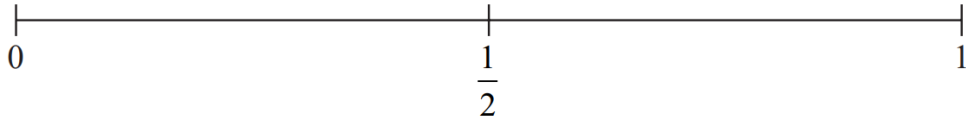
.....
(Total for Question 5 is 1 mark)



6 La-Verne has a fair ordinary dice.

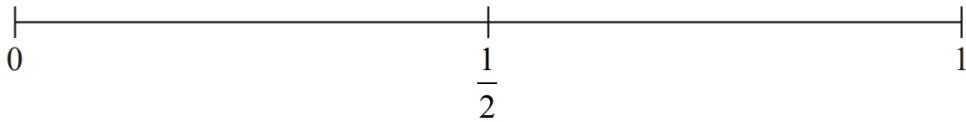
She rolls the dice once.

- (a) On the probability scale, mark with a cross (×) the probability that La-Verne gets the number 12



(1)

- (b) On the probability scale, mark with a cross (×) the probability that La-Verne gets an odd number.



(1)

(Total for Question 6 is 2 marks)



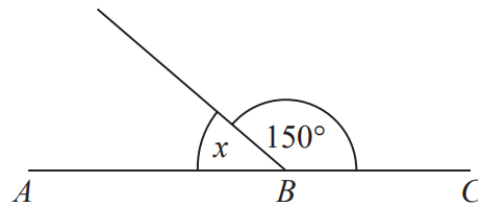
- 7 Harrison works for 4 hours.
He is paid £75

How much is Harrison paid per hour?

£.....

(Total for Question 7 is 2 marks)

8



ABC is a straight line.

- (a) (i) Work out the size of the angle marked x .

.....
(1)

- (ii) Give a reason for your answer.

.....
.....
.....
(1)

(Total for Question 8 is 2 marks) (1)



9 Mikaela writes down the distance readings from her car at the start and end of a journey.

Start of journey

1	3	5	2	6
---	---	---	---	---

 miles

End of journey

1	3	9	8	2
---	---	---	---	---

 miles

Mikaela knows that the cost of petrol for this journey is 17p per mile.

Work out the total cost of the petrol used for this journey.

Give your answer in pounds.

£.....

(Total for Question 9 is 4 marks)



10 Kaieem is choosing a snack and a drink.

He has a choice of three snacks and a choice of three drinks.

Snacks	Drinks
Crisps (C)	Water (W)
Raisins (R)	Fizzy (F)
Toast (T)	Juice (J)

Kaieem is going to choose one snack and one drink.

List all the possible combinations Kaieem can choose.

.....

.....

.....

.....

(Total for Question 10 is 2 marks)

11 278 people go on a school trip.

The people on the trip are either adults or children.

There are 18 adults on the trip.

40% of the children on the trip are wearing a hat.

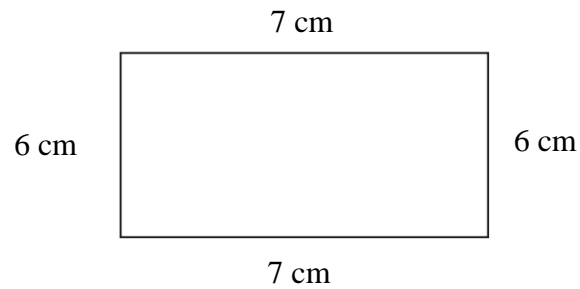
Find the number of children on the trip who are **not** wearing a hat.

.....

(Total for Question 11 is 4 marks)



12 Capprice is trying to find the area of this rectangle.



She writes,

“The area is 1764 cm^2 because $6 \times 7 \times 6 \times 7 = 1764$ ”

(a) Explain what is wrong with Capprice’s method.

(1)

Harley works out the volume of an object

His answer is 3500 cm.

(b) Explain why his answer cannot be fully correct.

(1)

(Total for Question 12 is 2 marks)



- 13** Write the following numbers in order of size.
Start with the smallest number.

$$\frac{5}{8}$$

0.63

62%

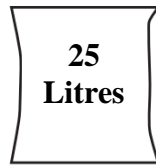
$$\frac{3}{5}$$

0.615

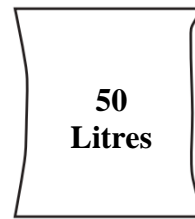
(Total for Question 13 is 2 marks)



- 14** A shop sells bird seeds in 25 litre bags and in 50 litre bags.
One day the shop had two special offers for the bird seeds.



2 bags for £4.80



3 bags for £11.70

Which offer is the better value for money?
You must show how you get your answer.

(Total for Question 14 is 3 marks)



15 The diagram shows a rectangle and an isosceles triangle.

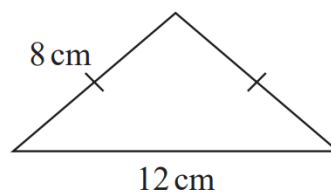


Diagram **NOT** accurately drawn

The perimeter of the rectangle is equal to the perimeter of the triangle.

(a) Find the area of the rectangle.

..... cm^2
(3)

The diagram shows a cuboid.

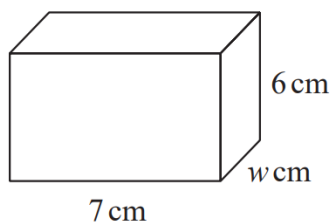


Diagram **NOT** accurately drawn

The volume of the cuboid is 231cm^3

(b) Calculate the value of w

$w =$

(2)

(Total for Question 15 is 5 marks)



- 16** The table gives information about the number of minutes that Kyra spent walking each day in September.

Number of minutes (M)	Frequency
$0 < M \leq 30$	5
$30 < M \leq 60$	6
$60 < M \leq 90$	8
$90 < M \leq 120$	9
$120 < M \leq 150$	2

Work out an estimate for the mean number of minutes that Kyra spent walking each day in September.

..... minutes

(Total for Question 16 is 3 marks)



17 (a) Expand $y(y - 6)$

.....
(1)

(b) Factorise $3a - 12$

.....
(1)

(c) Solve $2(5x - 3) = 19$

$x =$
(3)

(d) Simplify $4a^2b \times 5ab^3$

.....
(2)

(Total for Question 17 is 7 marks)

18 Change 4 m^2 into cm^2

..... cm^2

(Total for Question 18 is 1 mark)



- 19** Thando buys a second-hand bicycle for £120.
She sells the bicycle for £93.

Work out her percentage loss.

.....%

(Total for Question 19 is 3 marks)



20 (a) Work out the value of $\frac{18 - \sqrt{37.62}}{5 + 1.8^2}$

Write down all the figures on your calculator display.

.....
(2)

(b) Work out the value of the reciprocal of 0.578

.....
(Total for Question 20 is (1) rks)



21 Prosperity Bank has two types of account.

Both accounts pay compound interest

Cash savings account

Interest
2.8% per annum

Investment account

Interest
3.6% per annum

Carter invests £2200 in the cash savings account.

Jahmelia invests £1700 in the investment account.

- (a) Work out who will get the most interest by the end of 3 years.
You must show all your working.

(4)

In the 3rd year, the rate of interest for the investment account is changed to 4.2% per annum.

- (b) Does this affect who will get the most interest by the end of 3 years?

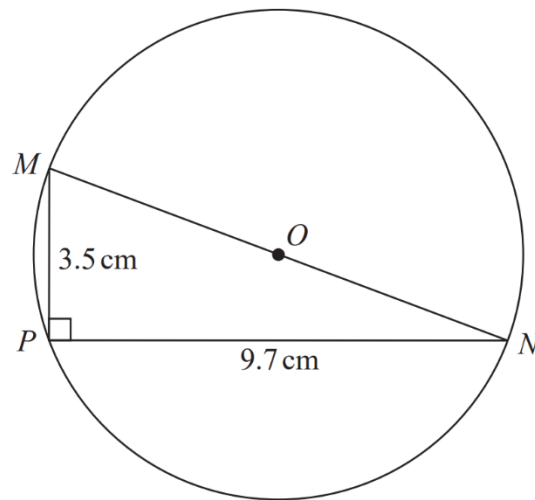
Give a reason for your answer.

(1)

(Total for Question 21 is 5 marks)



Diagram **NOT**
accurately drawn



M , N and P are points on a circle, centre O .
 MON is a diameter of the circle.

$$MP = 3.5 \text{ cm}$$

$$PN = 9.7 \text{ cm}$$

$$\text{Angle } MPN = 90^\circ$$

Work out the circumference of the circle.
Give your answer correct to 3 significant figures.

..... cm

(Total for Question 22 is 4 marks)



23

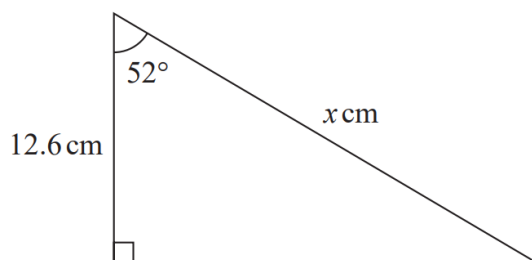


Diagram **NOT**
accurately drawn

Work out the value of x .
Give your answer correct to 3 significant figures.

$x =$

(Total for Question 23 is 3 marks)

- 24** A number, d , is rounded to 1 decimal place.
The result is 13.4

Complete the error interval for d .

..... $\leq d <$

(Total for Question 24 is 2 marks)



25 There are some people in a cinema.

$\frac{3}{5}$ of the people in the cinema are children.
For the children in the cinema,

number of girls : number of boys = 2 : 7

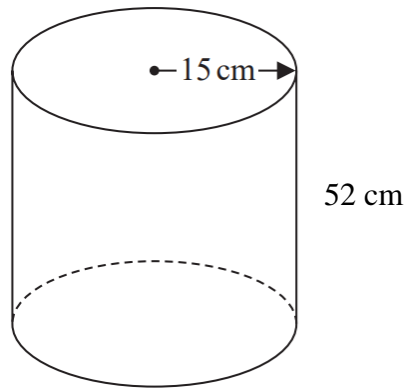
There are 170 girls in the cinema.

Work out the number of adults in the cinema.

.....
(Total for Question 25 is 5 marks)



26 The diagram shows an empty tank in the shape of a cylinder.



The cylinder has radius 15 cm and height 52 cm.

Water flows into the tank at a rate of 0.53 litres per minute.

Calculate the number of minutes it will take to completely fill the tank.
Give your answer correct to the nearest minute.

..... minutes

(Total for Question 26 is 4 marks)



- 27 The diagram shows a shaded shape $AEBCD$ made by removing triangle AEB from rectangle $ABCD$

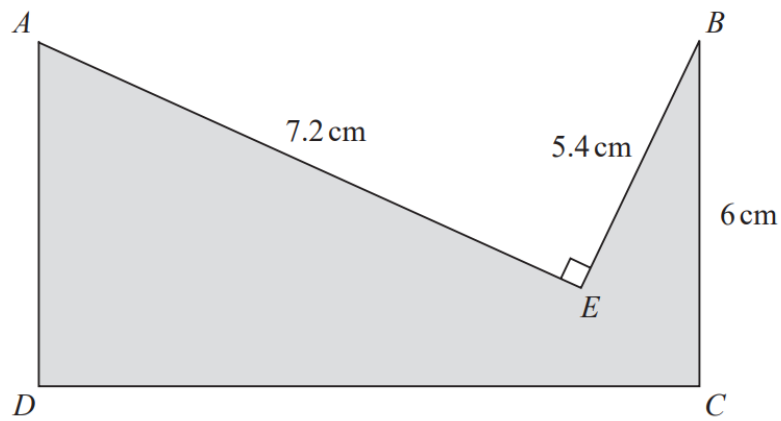


Diagram **NOT**
accurately drawn

$$AE = 7.2 \text{ cm} \quad BE = 5.4 \text{ cm} \quad BC = 6 \text{ cm} \quad \text{angle } AEB = 90^\circ$$

Work out the perimeter of the shaded shape.

..... cm

(Total for Question 27 is 4 marks)



28 Solve the simultaneous equations

$$2x + 9y = 14.5$$

$$7x + 3y = 8$$

Show clear algebraic working.

$$x = \dots\dots\dots$$

$$y = \dots\dots\dots$$

(Total for Question 28 is 3 marks)

TOTAL FOR PAPER IS 80 MARKS



Congratulations on completing the paper! I hope it has helped you with your revision.



Social Media Links:

- [TikTok](#)
- [YouTube](#)
- [Instagram](#)
- [Facebook](#)

Why not buy me a
coffee? ☺️

[Buy Me a Coffee](#)

Take care!

