



Rewarding Learning

General Certificate of Secondary Education
2025

Centre Number

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Candidate Number

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Mathematics

Unit M5 Paper 1
(Non-Calculator)

Foundation Tier

[GMC51]



GMC51

WEDNESDAY 4 JUNE, 9.15am – 10.15am

TIME

1 hour.

INSTRUCTIONS TO CANDIDATES

Write your Centre Number and Candidate Number in the spaces provided at the top of this page.

You must answer the questions in the spaces provided.

Do not write outside the boxed area on each page, on blank pages or tracing paper.

Complete in black ink only. **Do not write with a gel pen.**

Questions which require drawing or sketching should be completed using an HB pencil. All working **must** be clearly shown in the spaces provided. Marks may be awarded for partially correct solutions.

You **must not** use a calculator for this paper.

Answer **all sixteen** questions.

INFORMATION FOR CANDIDATES

The total mark for this paper is 50.

Figures in brackets printed down the right-hand side of pages indicate the marks awarded to each question or part question.

You should have a ruler, compasses and a protractor.

The Formula Sheet is on page 2.

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24GMC5101

Formula Sheet

$$\text{Area of trapezium} = \frac{1}{2}(a + b)h$$



$$\text{Volume of prism} = \text{area of cross section} \times \text{length}$$





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(Questions begin overleaf)

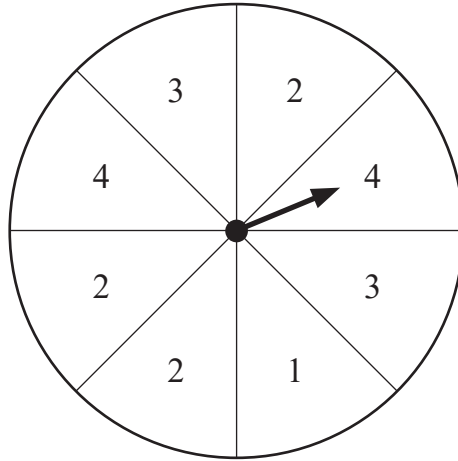
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[Turn over



24GMC5103

1 This fair spinner is spun.



Tick [✓] the box for the correct word.

(a) (i) The probability of getting an **odd** number on the spinner is

Impossible

Unlikely

Evens

Likely

Certain

[1]



(ii) The probability of getting a **multiple of 2** on the spinner is

Impossible

Unlikely

Evens

Likely

Certain

[1]

(b) Mark, with an **arrow** on the probability line below, the probability of getting a prime number on this spinner.



[1]



2 (a) Graham has £258 in his bank account.

Laura has £164 in her bank account.

(i) How much money have they altogether?

Answer £ _____ [1]

(ii) How much more money has Graham than Laura?

Answer £ _____ [1]

(iii) Graham spends $\frac{1}{3}$ of his money.

How much money does he spend?

Answer £ _____ [1]

(b) Laura has a part-time job and earns £8 per hour.

She is due a 10% pay rise.

How much extra will she earn per hour?

Answer _____ p [1]



3 (a) Estimate 6.1×398

Show your working out clearly.

Answer _____ [2]

(b) Eric estimates 97×1003 as 1 million.

Show that Eric is **not** correct.

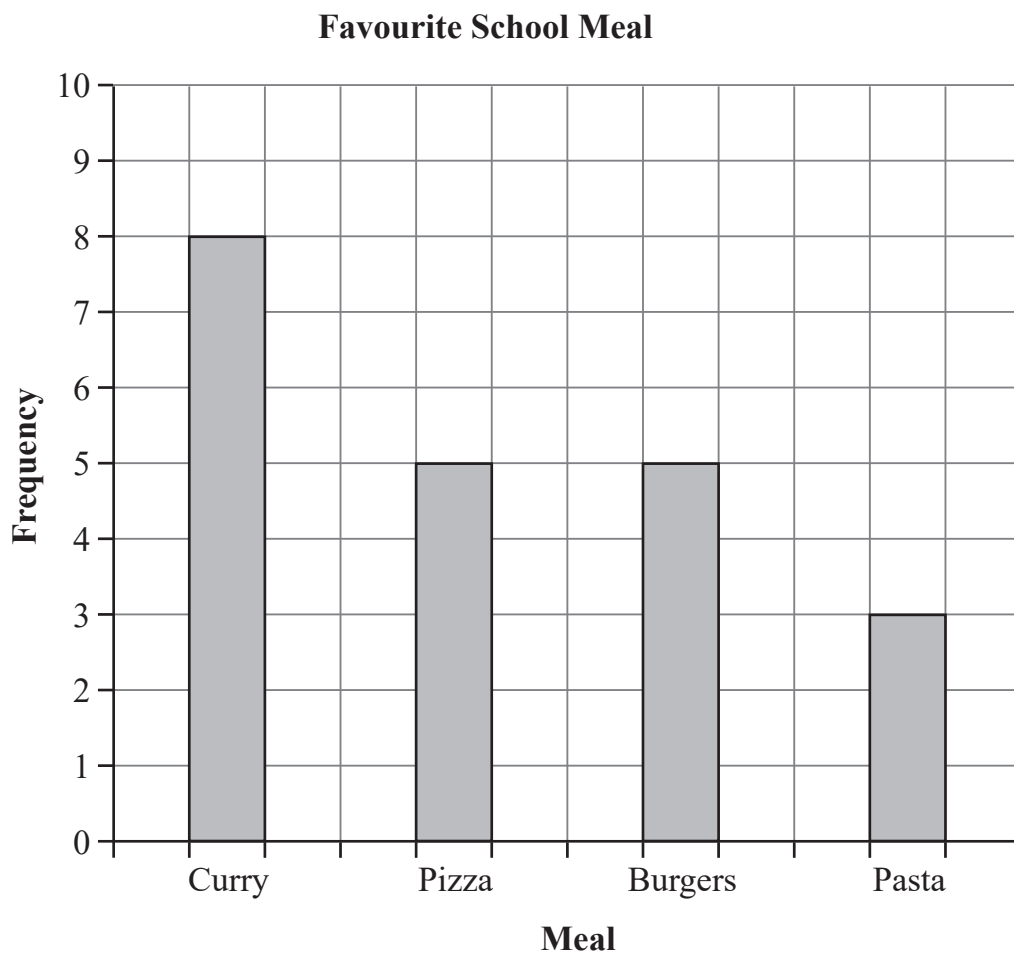
[1]

[Turn over



4 Andy asks his classmates what their favourite school meal is.

He displays their answers in a bar chart.



Andy asks one of his classmates at random about their choice.

- (a) What is the **probability** that they say pasta is their favourite school meal?

Give your answer as a fraction.

Answer _____ [2]

- (b) Is his classmate more likely to have chosen pizza or burgers as their favourite school meal?

Explain your answer clearly.

Answer _____

_____ [1]

[Turn over



5 Tick [✓] the correct box to show the best unit to measure each of the following.

(a) The time taken to boil an egg.

Minutes

Hours

Days

[1]

(b) The distance travelled in a one-hour car journey.

Inches

Yards

Miles

[1]

(c) The mass of a large dog.

Grams

Kilograms

Tonnes

[1]



6 Terri buys

1 bag of crisps for £1.30

1 bar of chocolate for £1.40

2 packets of sweets at 75p each.

Terri pays with a £5 note.

Terri is given 80p change.

Is this the correct change?

Explain your answer clearly.

Answer _____ because _____

_____ [3]

[Turn over



7 Eggs are sold in boxes of six.

Each box costs £1.75

Charlie needs 44 eggs.

How much will it cost Charlie to buy enough eggs?

Answer £ _____ [3]



8 A rectangular wall measures 4.7 metres by 2.9 metres.

Tiles cost £29.75 per square metre.

Estimate the cost to tile the wall.

Show your working out clearly.

Answer £ _____ [3]

[Turn over



9 How much bigger is 35% of £120 than $\frac{1}{3}$ of £120?

Answer £ _____ [3]



10 (a) A square number and a cube number add together to give a total of 52

Write down the two numbers.

Answer _____ and _____ [1]

(b) Write down the triangular number between 40 and 50

Answer _____ [1]

[Turn over



11 Jackie chooses chips or mash or baby boiled potatoes for a side order.

The probability she chooses chips is 0.65

The probability she chooses mash is 0.2

What is the probability that Jackie chooses baby boiled potatoes?

Answer _____ [2]



12 (a) 2 cm represents 15 km on a map.

How many kilometres are represented by 12 cm on the map?

Answer _____ km [2]

(b) A different map has a scale of 1: 25 000

John measures the distance between two points on this map to be 8 cm.

Is the actual distance, in km, between these two points greater than 10 km?

Show your working out clearly.

Answer _____ [2]

[Turn over



13 The ratio of girls to boys in an athletics club is 3:5

There are 45 **boys** in the club.

$\frac{1}{4}$ of the children are sprinters.

How many children are sprinters?

Answer _____ [3]



14 Hilary is ordering T-shirts for a school trip.

She has to pay a £60 design fee and an amount for each T-shirt.

The total cost of 40 T-shirts is £380

What is the **total** cost of 30 T-shirts?

Answer £ _____ [4]

[Turn over



15 (a) A bag contains 20 coloured marbles.

The marbles are coloured red, green, blue and orange.

Rosie says



When I take a marble from the bag at random, I think that, because there are four colours, the probability of it being red is $\frac{1}{4}$

Explain why Rosie **might not** be correct in what she thinks.

Answer _____
_____ [1]



(b) A different bag contains 20 coloured marbles.

The marbles are coloured red, green, blue and orange.

The bag has 2 red marbles and 7 green marbles.

The probability of choosing a blue marble is $\frac{2}{5}$

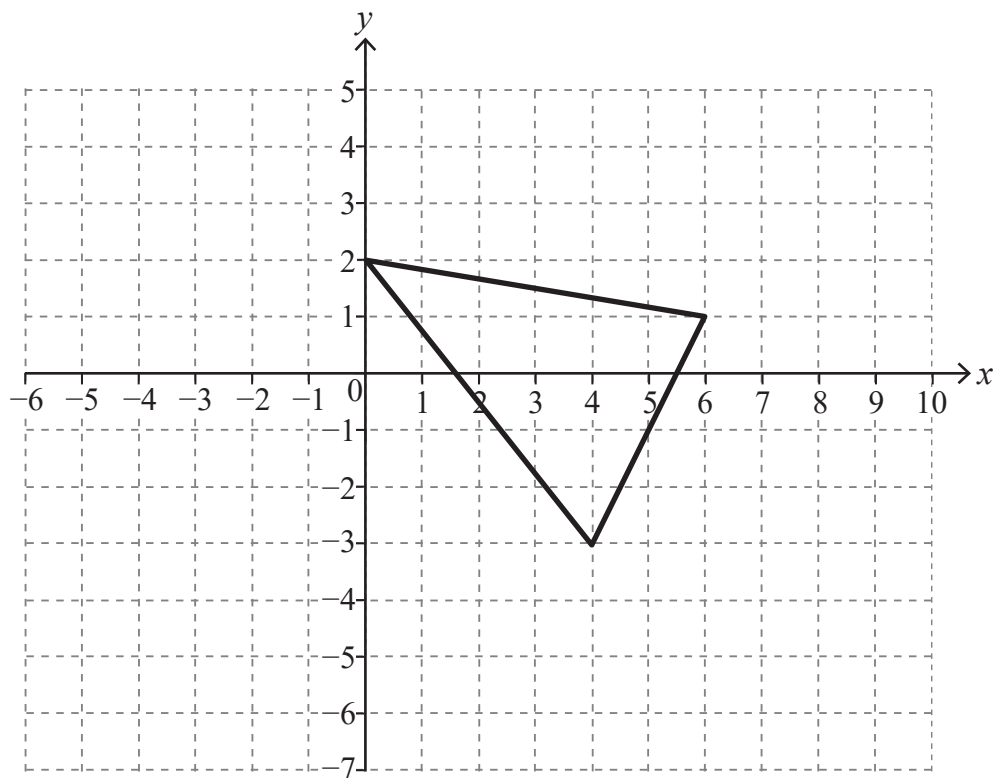
How many orange marbles are there in the bag?

Answer _____ [2]

[Turn over



- 16 (a) Draw the image of the triangle shown after a translation of 3 units left and 4 units down.



[2]

- (b) A different triangle, PQR, was translated 4 units right and 6 units down.

The **image** of the point P **after** this different translation is $(8, -4)$

What were the coordinates of the original point P?

Answer (_____ , _____) [2]





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Question Number	Marks
1	
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Total Marks	
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Examiner Number

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