For: Pearson Edexcel GCSE (9–1)

GCSE Practice Paper 1MA1



Mathematics

Paper 3F (Calculator)

Foundation Tier

Surname

Other names

Set B

Written in accordance with advance information for November 2022

You should have:

A pen, pencil, ruler, eraser and a scientific calculator. Tracing paper may be used. A formula sheet.

Information

- The total mark for this paper is 80
- The marks for each question are shown in brackets.
- Answer all questions in the spaces provided *there may be more space than you need.*
- You must show all your working.
- Diagrams are not accurately drawn, unless otherwise indicated.
- Check your answers if you have time at the end.

This assessment has been designed by White Rose Maths.

1	Write $\frac{4}{5}$ as a decimal.	
		(1 mark)
2	What is the value of the 9 in the number 294325?	
		(1 mark)
3	Change 3600 grams to kilograms.	
		ka
		(1 mark)
4		
	Write down a number that is a multiple of 12 and a multiple of 15	
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	Work out $2\mathbf{a} + \mathbf{b}$ as a column vector.							
					-		(2 marł	
ł	b) Draw the vector $\begin{pmatrix} 2 \\ 5 \end{pmatrix}$ on the grid.							
							(2 mark	
10 \	Write the numb	ers in ord	er of size.					
9	Start with the smallest number.							
		0.4	0.401	0.34	0.104	0.44		
-								



12 One day, Mr Singh spent:

- 8 hours asleep
- two-fifths of the day at work
- the rest of the day doing other activities

Draw an accurate pie chart to show this information.



(4 marks)







18 The time series graph shows information about the percentage of waste recycled by a council.



a) Between which two years did the percentage of waste recycled increase the most?

(1 mark)

b) Describe the trend shown by the graph.

(1 mark)

c) Explain why you cannot use the graph to estimate the percentage of waste that will be recycled in 2024

(1 mark)

19 150 new houses are built on an estate.

Each house has either two bedrooms or three bedrooms.

Some of the houses have garages, and the rest do not.

95 of the houses have two bedrooms.

- 30 of the 70 houses that have garages are two-bedroom houses.
- a) Complete the frequency tree to show this information.



(4 marks)

b) Write the ratio of the number of two-bedroom houses to the number of three-bedroom houses in its simplest form.

(2 marks)





The probability that she will go on a tour bus is 0.4 Whitney going to a show is independent of her going on a tour bus. The probability that she will go on a tour bus **and** go to a show is 0.28 Complete the tree diagram.



23 Make q the subject of the formula $p = 2q^2 - 3$

(3 marks)

24 Th	e mean	of two	numbers	is 48
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The ratio of the size of the greater number : the size of the smaller number is 5 : 1 Find the greater of the two numbers.

(3 marks)

25 The volume of a cylinder is 1536π cm³ The height of the cylinder is three times its radius. Work out the height of the cylinder.

cm

(3 marks)

