## For: Pearson Edexcel GCSE (9–1)

# **GCSE** Practice Paper 1MA1



# Mathematics

### Paper 1F (Non-Calculator) Foundation Tier



Surname

Other names

## Set B

Written in accordance with advance information for November 2022

#### You should have:

A pen, pencil, ruler and an eraser. 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.
- Calculators may not be used.
- Check your answers if you have time at the end.

This assessment has been designed by White Rose Maths.

For more information, please visit www.whiterosemaths.com

1	Write 0.3 as a fraction.	
	-	(1 mark)
2	Write 1.03 metres in centimetres.	
		cm
		(1 mark)
3	Work out 19 – 2 × 3	
	-	
		(2 marks)
4	Write down all of the factors of 12	
		(2 marks)



8	a) Dora answered 20 questions in a test.	
	She answered 14 questions correctly.	
	What fraction of the questions did Dora answer correctly?	
	Give your answer in its simplest form.	
		(2 marks)
	<b>b)</b> In a game, there are cards that show either odd or even numbers.	
	$\frac{1}{2}$ of the cards show odd numbers	
	$\frac{1}{5}$ of the colors show odd humbers.	
	There are 120 cards that show even numbers.	
	Work out the total number of cards in the game.	
		(3 marks)
<u> </u>		(
9	Huan buys 25 sweets from a shop.	
	He eats 7 sweets	
	What percentage of the sweets did Hugp out?	
	what percentage of the sweets and Huan eat?	
		%
		(2 monte)
1		(Z Marks)



11	A drone travels for 45 minutes at a constant speed of 4	0 mph.	
	How far does the drone travel?		
	-		miles
			(2 marks)
12	The diagram shows the location of two towns, A and B.		
	On the diagram, 1 cm represents 3 km.		
	A ×		
		В×	
	Work out the actual distance between the two towns		
			km
			(2 marks)



#### **15** a) Solve $2x - 9 \le -5$

**b)** Solve 2(x + 5) = 24

(2 marks)

16	An electrician charges £15 per hour plus a £45 call-out charge for a job. The electrician charges a customer £120 for a job. How long did the job take?	
		hours
17	A headteacher asks 15 students in her school if they like school dinners. 7 students say "yes". There are 750 students in the school. Estimate how many of the students like school dinners.	
		(2 marks)

**18** Work out the calculations.

**a)** 
$$\frac{2}{5} + \frac{1}{12}$$

(2 marks)

## **b)** $\frac{3}{5} \times \frac{10}{11}$



21	A bag	contains	only	yellow	and	blue counters.
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There are 3 times as many yellow counters as blue counters.

**a)** Write down the ratio of yellow counters to blue counters.

(1 mark)

There are 32  $\operatorname{\boldsymbol{more}}$  yellow counters than blue counters in the bag.

**b)** How many counters are there in the bag?

(2 marks)

A box of pencils costs £3.24Work out the total cost of 16 boxes of pencils.

£\_\_\_\_\_

(3 marks)

	y = 27 when $x = 6$	
	Find the value of $y$ when $x = 10$	
		(3 ma
24	<b>a)</b> Simplify $3n^2 + 5n^2$	
		(1 m
	<b>b)</b> Simplify $(2n^5)^3$	
		(2 mg
		(2 110







**28** The plan of a room is shown.



Mr Rose wants to lay carpet down in the room.

The carpet costs £18 per  $m^{\scriptscriptstyle 2}$ 

The shop is offering a 20% discount on all orders.

Mr Rose has £200

Does Mr Rose have enough money to buy the carpet for the room?

You must show all your working.

(5 marks)



The point (3, -1) is the midpoint of the line segment that joins the point (-2, 3) to point P.

Work out the coordinates of point P.

**30** The formula to calculate pressure is shown.

pressure = 
$$\frac{\text{force}}{\text{area}}$$

A box exerts a force of 180 N on a table.

The pressure on the table is 120  $\ensuremath{N/m^2}$ 

Calculate the area of the box that is in contact with the table.

\_ m<sup>2</sup>

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