

Name: \_\_\_\_\_

# Maths Genie Stage 1

## Test C

### Instructions

- Use **black** ink or ball-point pen.
- Answer all questions.
- Answer the questions in the spaces provided  
– *there may be more space than you need.*
- Diagrams are **NOT** accurately drawn, unless otherwise indicated.
- You must **show all your working out.**
- **Calculators may not be used.**

### Information

- The marks for each question are shown in brackets  
– *use this as a guide as to how much time to spend on each question.*

### Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end

1 Here are four numbers.

-8                  -3                  3                  8

Write one of these numbers in each box to make a correct calculation.

$$\boxed{-8} + \boxed{3} = -5$$

OR  $\boxed{3} + \boxed{-8}$

(Total for Question 1 is 1 mark)

2 Work out  $-5 \times -9$

45

(Total for Question 2 is 1 mark)

3 Write down the value of the 2 in the number 6024

20

(Total for Question 3 is 1 mark)

4 Work out  $4 - 3 + 2 \times 5$

$$4 - 3 + 10$$

11

(Total for Question 4 is 1 mark)

5 Work out  $2^3$

8

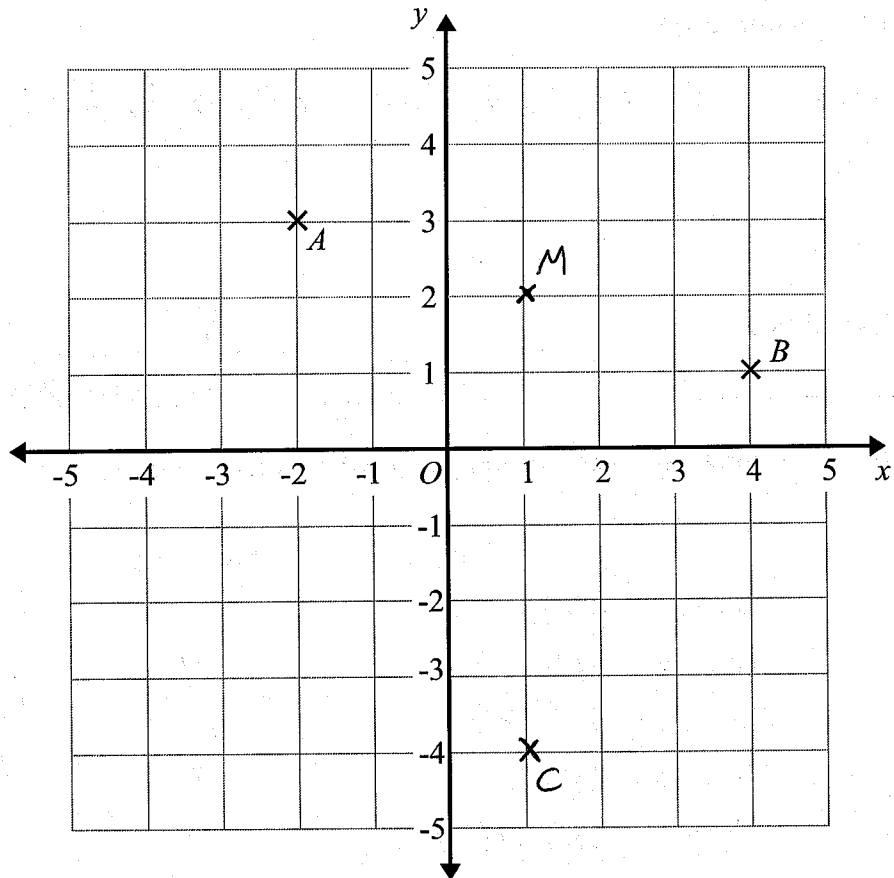
(Total for Question 5 is 1 mark)

6 Write the number 2 million in figures.

2 000 000

(Total for Question 6 is 1 mark)

7



(a) Write down the coordinates of point  $A$ .

$(-2, 3)$   
(1)

(b) Find the coordinates of the midpoint of  $AB$ .

$(1, 2)$   
(1)

(c) On the grid mark with a cross ( $\times$ ) the point  $(1, -4)$ .  
Label this point  $C$ .

(1)

(Total for Question 7 is 3 marks)

8 Write down two multiples of 8

Any Two: 8, 16, 24, 32, 40, 48, 56, 64, 72, 80...

① for each

8

16

(Total for Question 8 is 2 marks)

9 The incomplete table show information about the number of ice creams sold by a shop last week.

	Tally	Frequency
Monday	I	6
Tuesday		9
Wednesday		10
Thursday		7
Friday	I	11

① for just  
1 error

(a) Complete the tally chart.

(2)

(b) Complete the pictogram to represent the ice cream sales

(2)

Monday	
Tuesday	
Wednesday	
Thursday	
Friday	

Key:	
	Represents 2 ice creams

① for one  
error

(Total for Question 9 is 4 marks)

10 Work out the cube root of 125

5

(Total for Question 10 is 1 mark)

11 Write  $\frac{24}{60}$  as a fraction in its simplest form.

$$\frac{24}{60} = \frac{12}{30} = \frac{6}{15} = \frac{2}{5}$$

$\frac{2}{5}$

(Total for Question 11 is 1 mark)

12 Here is part of a train timetable.

London St Pancras	0540	0618	0701	0755
Ebbsfleet	0558	-	-	0812
Ashford	0624	0655	-	-
Paris	0917	0947	1017	1117

(a) A train leaves London St Pancras at 0701, how many minutes should it take to reach Paris?

$$0701 \rightarrow 1001 \rightarrow 1017$$

$$3 \times 60 = 180 \text{ mins}$$

$$180 + 16 = 196$$

196

minutes  
(1)

(b) What is the difference, in minutes, between the time it takes for the 0540 train and the 0755 train from London St Pancras to reach Paris?

$$\begin{array}{l} 0540 \\ 0840 \\ 0900 \\ 0917 \end{array} \left. \begin{array}{l} \downarrow \\ \downarrow \\ \downarrow \\ \downarrow \end{array} \right\} \begin{array}{l} 3 \text{ hours} \\ 20 \text{ mins} \\ 17 \text{ mins} \end{array}$$

$$\begin{array}{l} 0755 \\ 1055 \\ 1100 \\ 1117 \end{array} \left. \begin{array}{l} \downarrow \\ \downarrow \\ \downarrow \\ \downarrow \end{array} \right\} \begin{array}{l} 3 \text{ hours} \\ 5 \text{ mins} \\ 17 \text{ mins} \end{array}$$

15

(2)

3 hours 37 mins - 3 hours 22 mins (Total for Question 12 is 3 marks)

① for 3 hours 37 or 3 hours 22  
or 217 or 202