

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

# Maths Genie Stage 1

## Test A

### 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 Write down the value of  $9^2$

81

(Total for Question 1 is 1 mark)

2 Write down a 5 digit number that has 7 as its thousands digit.  
You can only use the digit 7 once.

Any with 7 in  
the thousands  
↓

17000

(Total for Question 2 is 1 mark)

3 Work out  $6 \times 5 - 8 \times 2$

30 - 16

14

(Total for Question 3 is 1 mark)

4 The temperature in Newcastle one day was  $-5^{\circ}\text{C}$   
The next day the temperature was  $3^{\circ}\text{C}$  higher.

Work out the new temperature.

-2 °C

(Total for Question 4 is 1 mark)

5 Write down a prime number between 20 and 30

23 or 29

23

(Total for Question 5 is 1 mark)

6 Work out the cube root of 125

5

(Total for Question 6 is 1 mark)

- 7 There are 9 pens in a box.  
5 pens are red.  
The rest of the pens are green.

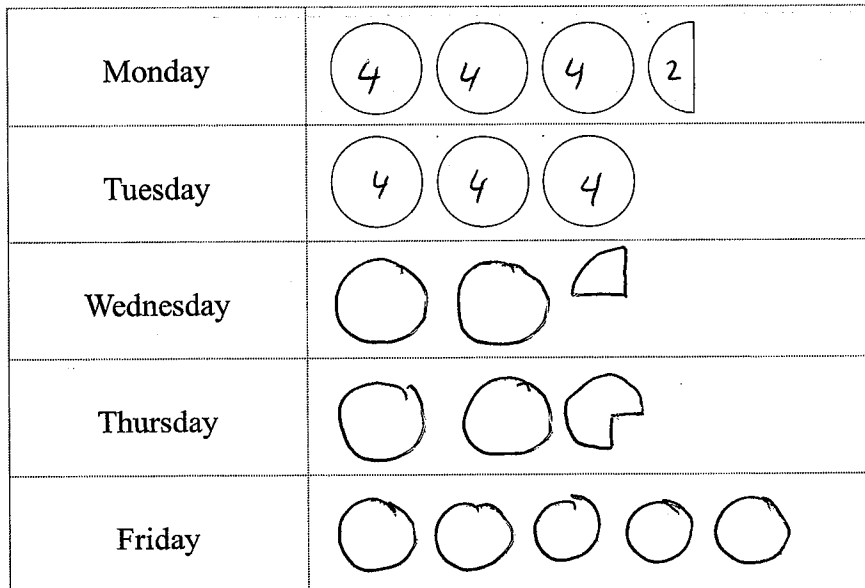
①  
4 ~~BLUE~~ GREEN

What fraction of the pens are green?


$$\frac{4}{9}$$

(Total for Question 7 is 2 marks)

- 8 This incomplete pictogram shows information about the number of pizzas sold by a shop on Monday, Tuesday and Wednesday.



Key:

 = 4 PIZZAS

①

②

A total of 26 pizzas were sold on Monday and Tuesday.  
9 pizzas were sold on Wednesday.  
11 pizzas were sold on Thursday.  
20 pizzas were sold on Friday.

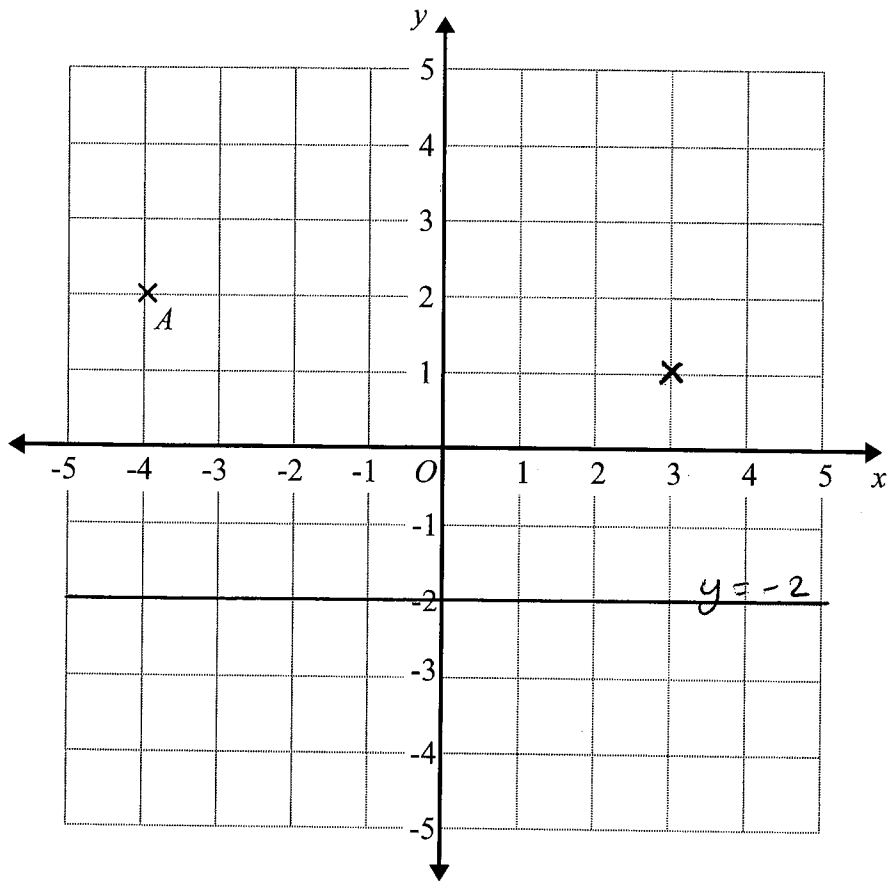
$6\frac{1}{2}$  circles = 26 pizzas

1 circle = 4 pizzas

Use this information to complete the pictogram.

(Total for Question 8 is 3 marks)

9



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

(-4, 2)  
(1)

(b) On the grid mark with a cross (×) the point (3, 1).  
Label this point *B*.

(1)

(c) On the grid, draw the line with equation  $y = -2$

(1)

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(Total for Question 9 is 3 marks)

10 Write down all the factors of 18

① for any pair

1, 18  
2, 9  
3, 6

1, 2, 3, 6, 9 and 18  
(Total for Question 10 is 2 marks)

11

$$\boxed{-6} \times \boxed{5} = \boxed{-30}$$

Write a number in the box to make a correct calculation.

(Total for Question 11 is 1 mark)

12 A film starts at 8.50 pm.  
The film lasts 102 minutes.

What time does the film finish?

8.50  
9.00 } 10 mins  
10.00 } 60 mins  
10.32 } 32 mins

$$102 - 70 = 32$$

① For correct  
Method, incorrect answer

10.32 pm

(Total for Question 12 is 2 marks)

13 Write brackets ( ) in this statement to make each statement correct.  
You may use more than one pair of brackets in each statement.

$$6 \times (4 + 7) = 66$$

(Total for Question 13 is 1 mark)