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.
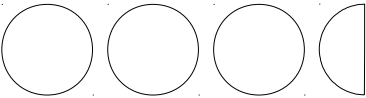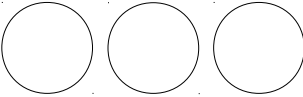• Check your answers if you have time at the end

1   Write down the value of 9^2

....
(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.

....
(Total for Question 2 is 1 mark)

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

....
(Total for Question 3 is 1 mark)

4   The temperature in Newcastle one day was -5°C
The next day the temperature was 3°C higher.

Work out the new temperature.

....°C
(Total for Question 4 is 1 mark)

5   Write down a prime number between 20 and 30

....
(Total for Question 5 is 1 mark)

6   Work out the cube root of 125

....
(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.

What fraction of the pens are green?

....

(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.

Monday	◯ ◯ ◯ ◖
Tuesday	◯ ◯ ◯
Wednesday	
Thursday	
Friday	

Key:

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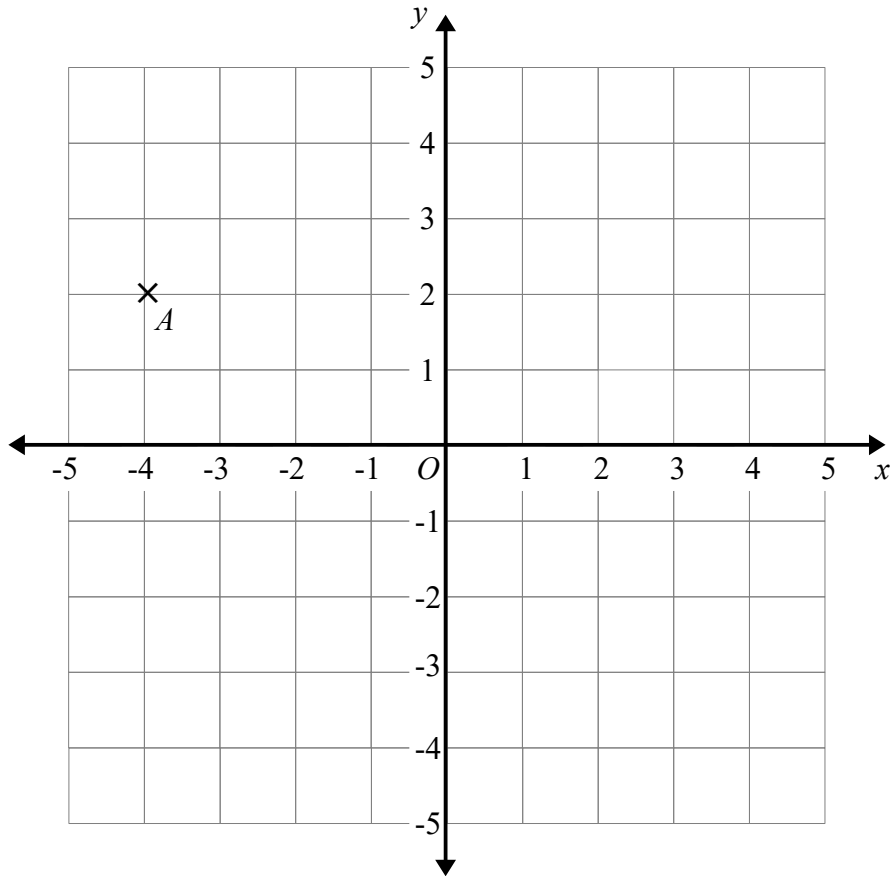9 pizzas were sold on Wednesday.
11 pizzas wheels were sold on Thursday.
20 pizzas wheels were sold on Friday.

Use this information to complete the pictogram.

(Total for Question 8 is 3 marks)

9

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

(…........ , ...)

(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)

(Total for Question 9 is 3 marks)

10   Write down all the factors of 18

....

(Total for Question 10 is 2 marks)

11

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

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?

....

(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)