

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

# Maths Genie Stage 2

## Test D

### 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 95.46 correct to one decimal place.

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

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2 Write 37 correct to 1 significant figure.

.....  
(Total for Question 8 is 1 mark)

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3 Andrew is going to have a meal.  
He can choose one starter and one main from the menu.

<u>Menu</u>	
Main	Dessert
Lasagne	Ice Cream
Pizza	Cake
Salad	Fruit

Write down all the possible combinations Andrew can choose.

.....

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.....

.....

.....  
(Total for Question 3 is 2 marks)

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4 There are 10 marbles in a bag.

5 marbles are red.  
3 marbles are blue.  
2 marbles are green.

One marble is selected at random from the bag.

(a) On the probability scale mark with a cross (X) the probability that the marble is red.



(b) On the probability scale mark with a cross (X) the probability that the marble is yellow. .



(c) Write down the probability that marble is blue.

.....  
(1)

**(Total for Question 4 is 3 marks)**

5 An adult cinema ticket costs £ $x$   
The price of a child's ticket is £5 more than the price of an adult ticket.

Write an expression for the price, in pounds, of a child's ticket.

.....  
£

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

6 Charles has  $m$  marbles.  
Rosalind has twice as many marbles as Charles

Write an expression for the number of marbles Rosalind has.

.....  
**(Total for Question 6 is 1 mark)**

7 Work out  $24.6 \times 9$

.....  
**(Total for Question 7 is 2 marks)**

8 Work out  $3254 - 947$

.....  
**(Total for Question 8 is 2 marks)**

9 Work out  $7.1 + 10.92 + 368$

.....  
**(Total for Question 9 is 2 marks)**

**10** (a) Simplify  $a \times 2 \times 5$

.....  
(1)

(b) Simplify  $b \times b$

.....  
(1)

(c) Simplify  $\frac{2y + 6y}{2}$

.....  
(1)

**(Total for Question 10 is 3 marks)**

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**11** Work out  $516 \div 6$

.....  
**(Total for Question 11 is 2 marks)**

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