

Name: _____

Maths Genie Stage 2

Test B

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 7518 to the nearest hundred.

7500

(Total for Question 1 is 1 mark)

2 Write 193.28 correct to one significant figure.

200

(Total for Question 20 is 1 mark)

3 Jane has m marbles.

Charles has 5 more marbles than Jane.

(a) Write an expression for the number of marbles Charles has.

$m + 5$

(1)

Agatha has 9 fewer marbles than Jane

(b) Write an expression for the number of marbles Jane has.

$m - 9$

(1)

(c) Write an expression for the total number of marbles Jane, Charles and Agatha have.

1 mark for $3m$, 1 mark for -4

$m + m + 5 + m - 9$

$3m - 4$

(2)

(Total for Question 3 is 4 marks)

4 William is going to roll a 6 sided dice and flip a coin.

The dice can land on 1, 2, 3, 4, 5 or 6.

The coin can land on heads or tails.

List all the possible outcomes.

1H 2H 3H 4H 5H 6H

1T 2T 3T 4T 5T 6T

1 mark for just 1 error

(Total for Question 4 is 2 marks)

5 There are some counters in a bag.

The table shows the number of counters of each colour.

Colour	Red	Blue	Yellow	Green
Number of Counters	4	3	7	5

A counter is taken at random from the bag.

(a) Write down the probability that the counter is green.

$$\frac{5}{19}$$

(b) Write down the probability that the counter is not blue.

$$\frac{16}{19}$$

(1)

(1)

(Total for Question 5 is 2 marks)

6 (a) Simplify $2y \times 3y$

$$6y^2$$

(1)

(b) Simplify $9a + 2a - a$

$$10a$$

(1)

(Total for question 6 is 2 marks)

7 Work out $3591 - 746$

$$\begin{array}{r} \overset{2}{3} \overset{1}{5} \overset{8}{9} \overset{1}{1} \\ - \quad \quad 7 \quad 4 \quad 6 \\ \hline 2 \quad 8 \quad 4 \quad 5 \end{array}$$

1 mark for just 1 error

$$2845$$

(Total for Question 7 is 2 marks)

8 Work out $29.34 + 7.58$

$$\begin{array}{r} 29.34 \\ + 7.58 \\ \hline 36.92 \end{array}$$

1 mark for just 1 error

36.92

(Total for Question 8 is 2 marks)

9 Work out $2688 \div 7$

7
14
21
28
35
42
49
56
63
70

$$\begin{array}{r} 0384 \\ 7 \overline{) 2658} \end{array}$$

1 mark for just 1 error

384

(Total for Question 9 is 2 marks)

10 Work out 56.2×8.4

$$\begin{array}{r} 562 \\ \times 84 \\ \hline 2248 \\ 44960 \\ \hline 47208 \end{array}$$

1 mark for just 1 error

472.08

(Total for Question 10 is 2 marks)