

Name: _____

Maths Genie Stage 2

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 2623 to the nearest thousand.

3000

(Total for Question 1 is 1 mark)

2 Write 7.84 correct to 1 decimal place.

7.8

(Total for Question 2 is 1 mark)

3 There are 41 counters in a bag.

18 of the counters are red.

The rest of the counters are blue.

One of the counters is taken at random.

Find the probability that the counter is blue.

$$\begin{array}{r} 3 \\ 41 \\ - 18 \\ \hline 23 \end{array}$$

1 mark for 23

$$\frac{23}{41}$$

(Total for Question 3 is 2 marks)

4 Work out $2572 + 309 + 84$

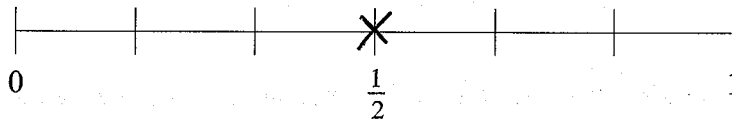
$$\begin{array}{r} 2572 \\ 309 \\ + \quad 84 \\ \hline 2965 \end{array}$$

1 mark for just 1 error

2965

(Total for Question 4 is 2 marks)

- 5 An ordinary dice is thrown. On the probability scale mark with a cross (X) the probability that the dice lands on an even number.



(Total for Question 5 is 1 mark)

- 6 Potatoes are sold for £2 per kilogram.
Write an expression for the price of x kilograms of potatoes.

£ 2x

(Total for Question 6 is 1 mark)

- 7 Work out 54×39

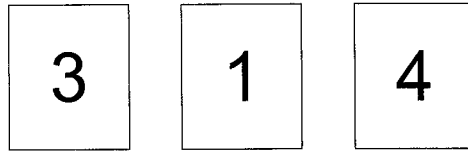
$$\begin{array}{r} 54 \\ \times 39 \\ \hline 486 \\ 1620 \\ \hline 2106 \end{array}$$

1 mark for just 1 error

2106

(Total for Question 7 is 2 marks)

8 Here are three number cards



Write down all the possible three-digit numbers that can be made using the cards.

3 1 4 1 3 4 4 3 1
3 4 1 1 4 3 4 1 3

1 mark for just 1 error

(Total for Question 8 is 2 marks)

9 Mason is x years old.
Phil is two years older than Mason.
Write an expression for Phil's age.

$x + 2$

(Total for Question 9 is 1 mark)

10 (a) Simplify $7 \times a \times 3$

$21a$

(1)

(b) Simplify $(5x - 3y - 8x) + 6y$

$-3x + 3y$

1 mark $3y$, 1 mark for $-3x$

$3y - 3x$

(2)

(Total for Question 10 is 3 marks)

11 Work out $61 - 36.8$

$$\begin{array}{r} \overset{5}{6} \overset{10}{1} \overset{10}{0} \\ - 36.8 \\ \hline 24.2 \end{array}$$

1 mark for just 1 error

24.2

(Total for Question 11 is 2 marks)

12 Work out $40.8 \div 0.6$

$$\frac{40.8}{0.6} = \frac{408}{6}$$

6

12

18

24

30

36

42

48

54

60

$$6 \overline{) 408}$$

1 mark for just 1 error

68

(Total for Question 12 is 2 marks)