## Maths Genie Stage 2

## Test C

## 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 8464 to the nearest thousand.

2 Write 5.7248 correct to 3 decimal places.

3 (a) Simplify $5 p \times 6 q$

(1)
(b) Simplify $10 a+4 b-6 a-9 b$

1 mark for 4a, 1 mark for - 5b

4 There are 11 pens in a box.
5 pens are red.
4 pens are blue.
2 pens is green.
On pen is selected at random from the box.
(a) Write down the probability that pen is green.
(b) Write down the probability that pen is black.


5 Work out $359 \times 6$


## 1 mark for just 1 error

2154

6 Work out $250-74-37$

$$
\begin{array}{r}
1461 \\
276 \\
-\quad 74 \\
\hline 176
\end{array}
$$




7 Work out $£ 6.35+£ 19.48$


1 mark for just 1 error
£ 25.83

8 There are three cards in box A and three cards in box B.
There is a number on each card.

Box $\mathbf{A}$


Box B


Harry takes a card from box A and a card from box B.
(a) Write down all the possible combinations of cards Harry can take.


Harry adds the numbers on the two cards to get a total score.
(b) Work out the probability that the total score is greater than 10 .

$9 \quad$ Work out $118.3 \div 0.7$
$\begin{array}{lr}7 & \frac{118.3}{0.7}=\frac{1183}{7} \\ 21 & 08 \\ 35 & 7 \longdiv { 1 1 8 ^ { 6 } 3 } \\ 42 & 09\end{array}$
56
63
76

1 mark for just 1 error

10 Pens are sold in packs and boxes.
There a 8 pens in a pack.
There are 50 pens in a box.
Write an expression for the total number of pens in $p$ packs and $b$ boxes.

1 mark for op, 1 mark for 50b

$$
8 p+50 b
$$

