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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.		
		****	8000
***************************************		(Total for	Question 1 is 1 mark)
2	Write 5.7248 correct to 3 decimal places.		
			5.725
		(Total for	Question 8 is 1 mark)
	(a) Simplify $5p \times 6q$		
			30pg
	(b) Simplify $10a + 4b - 6a - 9b$		(1)
		1 mark for 4a,	1 mark for -5b
			4a - 5b
,		(Total for	(2) Question 3 is 3 marks)

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.		
			2
	(b) Write down the probability that pen is black.		(1)
			0
		(Total for	(1) • Question 4 is 2 marks)

5 Work out 359×6

$$\frac{3}{2}, \frac{5}{1}, \frac{9}{5}, \frac{9}{4}$$

1 mark for just 1 error

2154

(Total for Question 5 is 2 marks)

6 Work out 250 - 74 - 37

1 mark for just 1 error

139

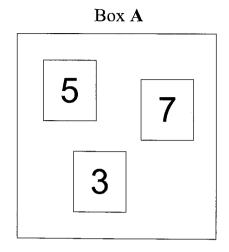
(Total for Question 6 is 2 marks)

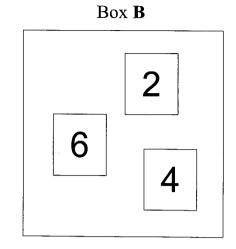
7 Work out £6.35 + £19.48

1 mark for just 1 error

£ 25.83

(Total for Question 7 is 2 marks)





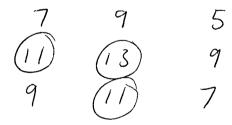
Harry takes a card from box A and a card from box B.

(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.



3

(1)

(Total for Question 8 is 3 marks)

or 1/3 or any equivalent fraction, decimal or percentage

9 Work out $118.3 \div 0.7$

$$\begin{array}{r}
 7 \\
 14 \\
 21 \\
 28 \\
 35 \\
 42 \\
 49 \\
 56 \\
 63 \\
 \end{array}
 = \frac{118.3}{7} \\
 = \frac{1183}{7} \\
 \hline
 7 \\
 \hline
 1 6 9 \\
 \hline
 7 \\
 \hline
 1 1 48 63
 \end{array}$$

1 mark for just 1 error

169

(Total for Question 9 is 2 marks)

10 Pens are sold in packs and boxes.

There a 8 pens in a pack.

76

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 8p, 1 mark for 50b

8p+50b

(Total for Question 10 is 2 marks)