MME

GCSE MATHEMATICS AQA | Edexcel | OCR | WJEC

Simultaneous Equations (Linear)

Please write clearly in block capitals

Forename:

Surname:

Materials

For this paper you must have:

mathematical instruments

You *can* use a calculator.



Instructions

- Use black ink or black ball-point pen. Draw diagrams in pencil.
- Fill in the boxes at the top of this page.
- · Answer all questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- Do all rough work in this book. Cross through any work you do not want to be marked.

Information

- · The marks for questions are shown in brackets.
- You may ask for graph paper, tracing paper and more answer paper. These must be tagged securely to this answer book.

Advice

· In all calculations, show clearly how you work out your answer.





3	Two different families pay for entry into a water park.	
	Family 1 has 2 adults and 3 children and costs a total of $\pounds 20$ to enter the park.	
	Family 2 has 1 adult and 4 children and costs a total of ± 15 to enter the park.	
	Work out the cost of the adult ticket, and the child ticket.	
		[4 marks]
	Adult ticket =	
	Child ticket =	
		Turn over ►

4	Sophie is selling student and parent tickets for a school performance.	
	On night one, she sells 50 student tickets and 80 parent tickets and makes \pounds 340 On night two, she sells 25 student tickets and 50 parent tickets and makes \pounds 200	
	What is the cost for 1 student ticket and the cost for 1 parent ticket?	[4 marks]
		_
		_
	Price of student ticket = \pounds	_
	Price of parent ticket = £	
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Turn over ►



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Andrew goes to the shop to buy some apples and bapapas	
He goes to nurchase 5 apples and 4 bapapas, and the total comes to $f5.70$	
Linfortunately, be doesn't have enough money, so he puts back 1 apple and 2	
bananas.	
The new total is £3.60. What is the cost of 1 apple and the cost of 1 banana?	
	[3 mar
Price of apple = £	
Price of banana = \pounds	
Turn over for next question	

7	Two simultaneous equations are given below, where p and q are constants.	
	3x - py = 4	
	4x - 3y + q = 0	
	The solution to these equations is $x = 1, y = 2$.	
	Find the value of p and q .	
		[4 marks]
		_
		_
		—
	Answer	
	Turn over for most mosting	
	I urn over for next question	

Turn over ►

