Centre Number			Candidate Number		
Surname					
Other Names					
Candidate Signature					

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GCSE Mathematics (Non-calculator Paper)

Practice Paper Style Questions
Topic: Simultaneous Equations (Higher Tier)

For this paper you must have: black pen HB pencil ruler (with cm & mm) rubber protractor compass pencil sharpener

Time allowed

• 1 hour

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 space 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 that you do not want to be marked.

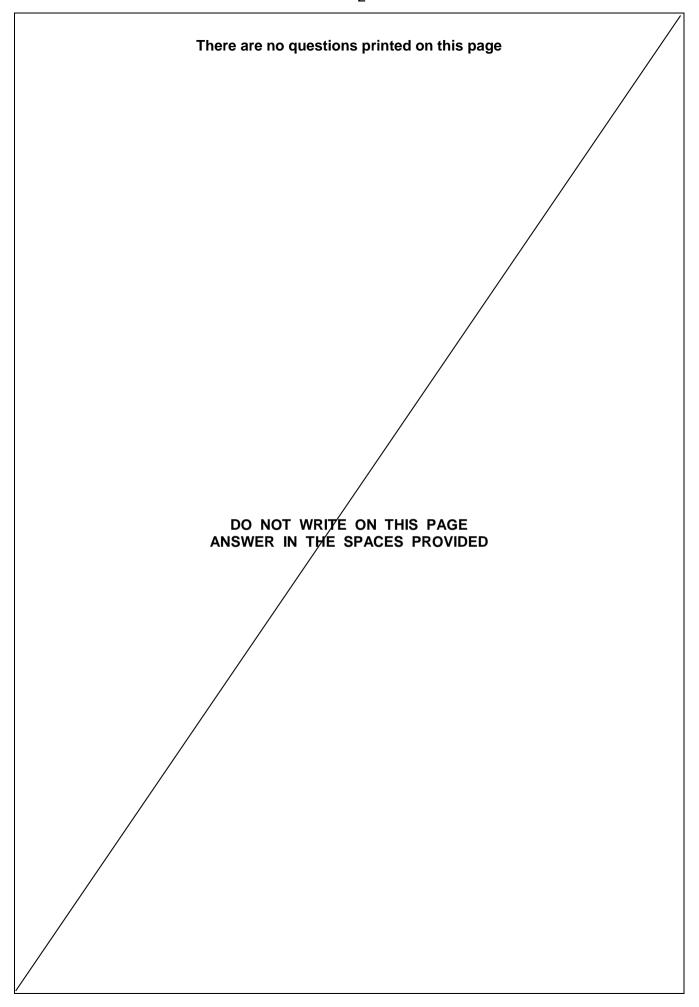
Information

- The marks for questions are shown in brackets.
- The maximum mark for this paper is 26.
 The quality of your written communication is specifically assessed in questions indicated with an asterisk (*)
- You may ask for more answer paper and graph paper.
 These must be tagged securely to this answer booklet.
- · A calculator must NOT be used.

Advice

- · Read each question carefully before you answer it.
- In all calculations, show clearly how you work out your answer.
- Check your answers if you have time at the end.

For Examiner's Use					
Examiner's Initials					
Pages	Mark				
3					
4 – 5					
6 – 7					
TOTAL					



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1	Solve the	simultaneous	equations:
•	OUIVE LITE	Simulation	equations.

$$2x + 3y = 3$$

$$3x - 4y = 13$$

$$x =$$
 (2 marks)

$$y = \dots (2 \text{ marks})$$

2 Solve the simultaneous equations:

$$6x + 2y = -1$$

$$4x - 2y = 6$$

(Total 3 marks)

3	Calva	th a	aimultan aaua	aguationa
၁	Solve	uie	simultaneous	equations.

$$x^2 + y^2 = 13$$

$$y = 2x + 1$$

$$x = \dots y = \dots y = \dots y = \dots$$
 or $x = \dots y = \dots$ (Total 6 marks)

4 Solve the simultaneous equations:

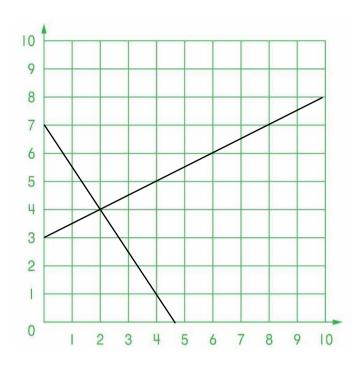
$$4x + y = -2$$

$$4x - 2y = 7$$

y =

(Total 3 marks)

5 This diagram show graphs of $y = \frac{1}{2}x + 3$ and 2y + 3x = 14



(a) Use the diagram to solve the simultaneous equations:

$$y = \frac{1}{2}x + 3$$

$$2y + 3x = 14$$

x =

y =

(1 mark)

(b) Find an equation of the straight line which is parallel to the line $y = \frac{1}{2}x + 3$

Answer (2 marks)

6	Solve the simultaneous equations:	
	6x + 3y = -3	
	4x - 2y = 6	
		$x = \dots (2 \text{ marks})$
		y = (2 marks)
7	Solve the simultaneous equations:	
	4x - y = 13	
	2x + 3y = -4	
		<i>x</i> =
		$y = \dots$ (Total 3 marks)
		(12111121113)

END OF QUESTIONS

