Write your name here		
Surname		Other names
In the style of: Pearson Edexcel GCSE	Centre Number	Candidate Number

Mathematics Simultaneous Equations

Higher Tier

GCSE style questions arranged by topic

Paper Reference 1MAO/2H

You must have: Ruler graduated in centimetres and millimetres, protractor, pair of compasses, pen, HB pencil, eraser, calculator.

Total Marks

Instructions

- Use **black** ink or ball-point pen.
- Fill in the boxes at the top of this page with your name, centre number and candidate number.
- Answer all questions.
- Answer the questions in the spaces provided
 there may be more space than you need.
- Calculators may be used.
- If your calculator does not have a π button, take the value of π to be 3.142 unless the question instructs otherwise.
- Diagrams are **NOT** accurately drawn, unless otherwise indicated.
- You must show all your working out.

Information

- The total mark for this paper is 80
- 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.

Turn over ▶



1	Solve the simultaneous equations	
	3x + 2y = 8 $2x + 5y = -2$	
	v –	



y =

(Total for Question 1 is 4 marks)

2 Solve the simultaneous equations

$$6x + 2y = -3$$
$$4x - 3y = 11$$

(Total for Question 2 is 4 marks)

3 Solve the simultaneous equations

$$x^2 + y^2 = 5$$
$$y = 3x + 1$$

or x = y =

(Total for Question 3 is 6 marks)

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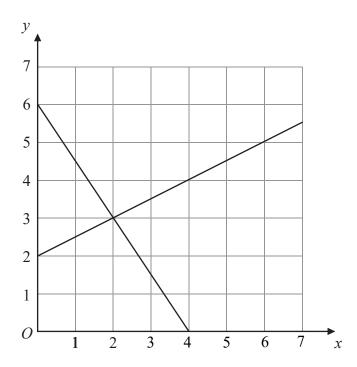
4	Solve the simultaneous equations	
	4x + y = -1 $4x - 3y = 7$	

x = *y* =

(Total for Question 4 is 3 marks)



5



The diagram shows graphs of $y = \frac{1}{2}x + 2$

and

$$2y + 3x = 12$$

(a) Use the diagram to solve the simultaneous equations

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

$$2y + 3x = 12$$

$$x = \dots \qquad y = \dots \qquad (1)$$

(b) Find an equation of the straight line which is parallel to the line $y = \frac{1}{2}x + 2$ and passes through the point (0, 4).

6 Solve the simultaneous equations

$$6x + 2y = -3$$
$$4x - 3y = 11$$

(Total for Question 6 is 4 marks)



Solve the simultaneous equations		
	4x + y = 10 $2x - 3y = 19$	
	2 3y 19	
		<i>x</i> =
		<i>y</i> =
	(To	tal for Question 7 is 3 marks)

