

GCSE MATHEMATICS

AQA | Edexcel | OCR | WJEC

(Level 3 - 5)

Drawing Straight Line Graphs

Please write clearly in block capitals

Forename:	
Surname:	

Materials

For this paper you must have:

mathematical instruments



You must not 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.

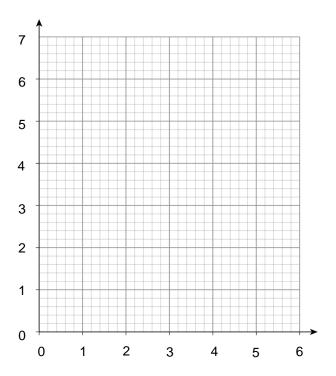
Advice

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

1 On the axes below, draw the straight line with y-intercept 1, and gradient 2.

(Level 3)

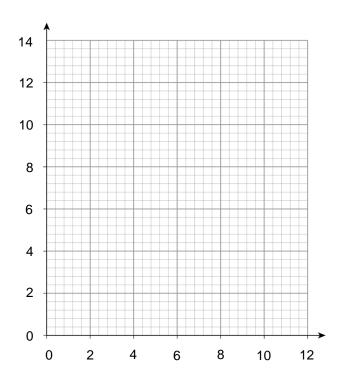
[3 marks]



2 On the axes below, draw the line y = 3x + 2

(Level 4)

[3 marks]



Turn over for next question

6

3 A relationship between x and y is described as follows:

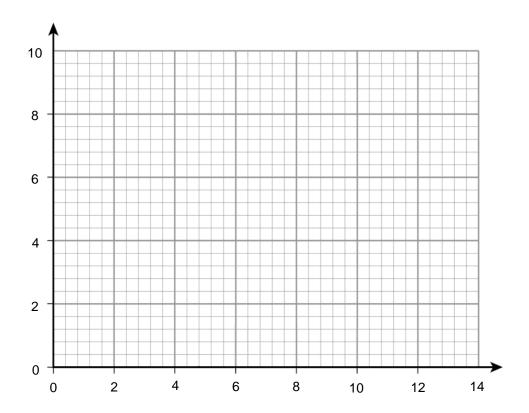
(Level 4)

For every increase in x, y increases by $\frac{1}{2}$ of x

Fill in the rest of the xy - table and use this to plot the straight line on the axes below.

[4 marks]

x	у
	2
4	4
	6
	8



Turn over for next question

Turn over ▶

4	(a)	On the square	arid below	nlot the	following	lines.
41	a)	On the Square	dila pelow	PIOL LITE	IOIIOWIIIQ	III ICO.

(Level 4)

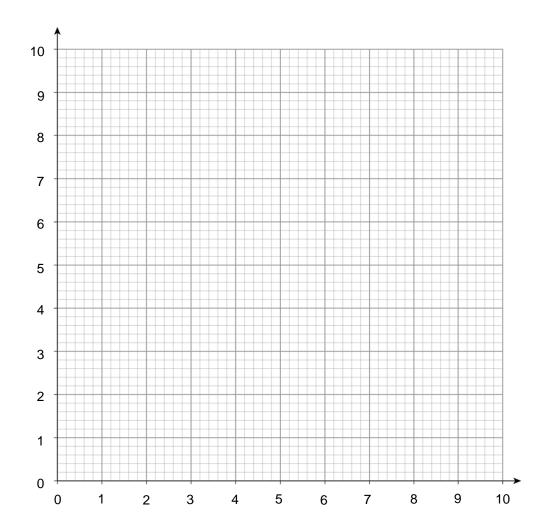
$$x = 3$$

$$y = 1$$

$$x = 7$$

$$y = 6$$

[4 marks]



4(b) What is the area of the shape bounded by the four lines?

[1 mark]

Answer

Turn over for next question

5

By rearrangement or otherwise, draw the line y + 2x - 10 = 0 on the grid below. (Level 4) [3 marks] **GCSE Maths Revision Guide** Exam Questions Included All exam boards - AQA, OCR, Edexcel, WJEC Suitable for higher and foundation tiers

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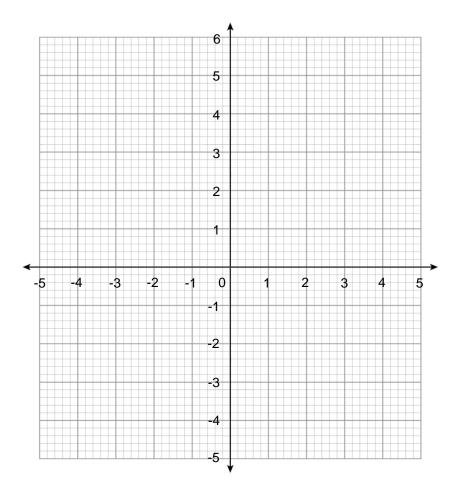
Turn over ▶

6 The x-intercept of a line with gradient $\frac{1}{2}$ is 3.

(Level 4)

By drawing the line on the axes below, find the y-intercept.

[2 marks]





MathsMadeEasy Revision App

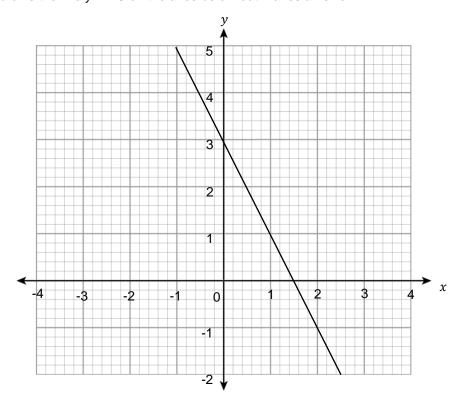
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7 Adam draws the line y-2x=3 on the axes below but makes an error.

(Level 4)



7(a) Describe the error Adam has made.

[1 mark]

7(b) What line has he actually plotted?

[1 mark]

Answer

7(c) Plot the correct graph of the line y - 2x = 3 on the same axes.

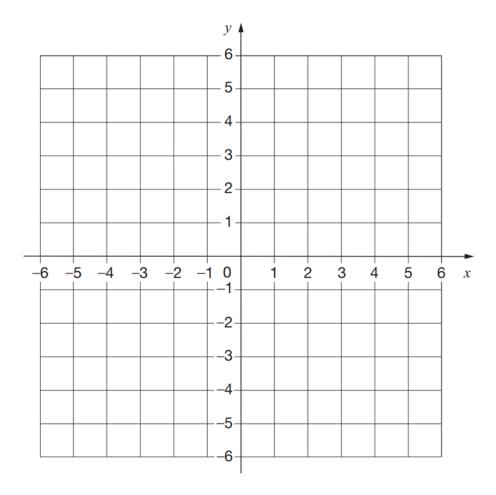
[2 marks]

Turn over for next question

8(a) Plot the graphs of $y = \frac{1}{2}x + 3$ and $y = \frac{3}{2}x - 3$ on the axes below.

(Level 5)

[4 marks]



8(b) What is the point of intersection of the two lines?

[1 mark]

Answer



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Turn over ▶

9(a)	On the axes below, draw the lines					
	x = -3					
	y = 3					
			2y = x + 1			
					[4 marks]	
			9			
		9(a)	On the axes below, draw the lines	(Level 5)		
			x = -3 $y = 3$			
			2y = x + 1	[4 marks]		
		9(b)	Write down a point inside the region that is bounded by your three lines.			
				[1 mark]		
			Answer			
			Ford of Consistence			
			End of Questions			
				END		
241						
9(b)	Write d	own a p	oint inside the region that is bounded by your three lines.			
					[1 mark]	
	Answer					
End of Questions						

END