

AQA Qualifications

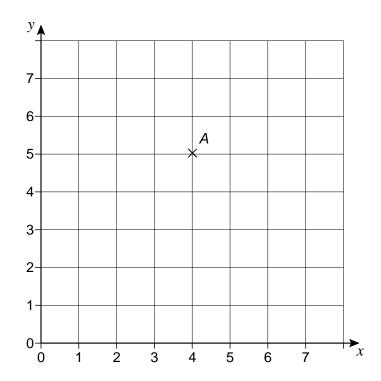
## GCSE MATHEMATICS

Topic tests - Foundation tier- Algebra

Name
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1



1 (a) Write down the coordinates of A.

[1 mark]

Answer (\_\_\_\_\_,\_\_\_

**1 (b)** Plot the point (2, 0).

Label this point B.

[1 mark]

1 (c) The coordinates of C add up to 6

Plot a possible position for  ${\it C}$ .

[1 mark]

•	(-)	Olman Ilfe	4 0
2	(a)	Simplify	4w + 2w - w

[1 mark]

Answer

**2 (b)** Solve x - 5 = 4

[1 mark]

*x* = \_\_\_\_\_

**2** (c) Solve 3y + 2 = 11

[2 marks]

y = \_\_\_\_\_

3	(a)	Expand 3	3( <i>x</i> – 6)		[1 mark]
				Answer	
3	(b)	Factorise	5 <i>y</i> – 10		[1 mark]
				Answer	
3	(c)	Expand and s	simplify	3(4w+1)-5(3w-2)	[3 marks]

Answer

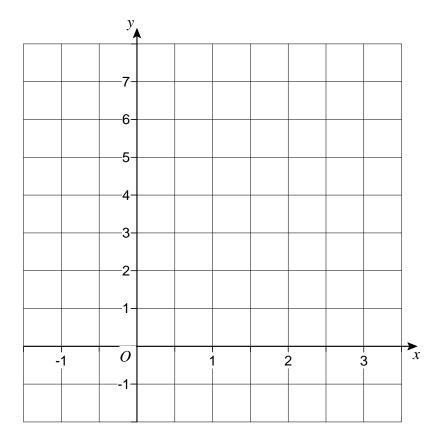
**4** (a) Complete the table of values for y = 2x + 1

[1 mark]

x	-1	1	3
у	-1		

**4 (b)** On the grid draw the graph of y = 2x + 1 for values of x from -1 to 3

[2 marks]



5 A, B, C and D represent different numbers. The total for each row is shown.

				_
Α	Α	Α	Α	
Α	Α	В	В	
Α	В	В	С	
Α	В	С	D	

Work out the values of A, B, C and D.

[4 marks]

Total

24

22

26

28

**6** Each mark on the number line represents a number.

The numbers are equally spaced.



Work out the value of a.

[3	marks	
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a = \_\_\_\_

7	x = 5 is the solution to the equation $a(x - 3) = 4x - b$	
	a and $b$ are integers.	
	Work out ${\bf two}$ possible pairs of values for $a$ and $b$ .	[3 marks]
	a = b =	

## **END OF QUESTIONS**

*a* = \_\_\_\_\_\_ *b* = \_\_\_\_\_