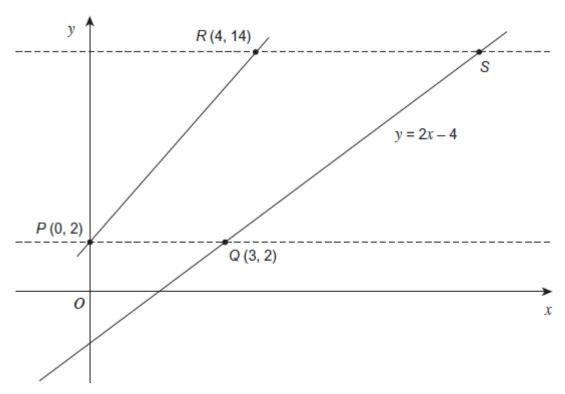
Q1.

The two dashed lines are both parallel to the x axis.

Not drawn accurately



(a) Circle the equation of line PR.

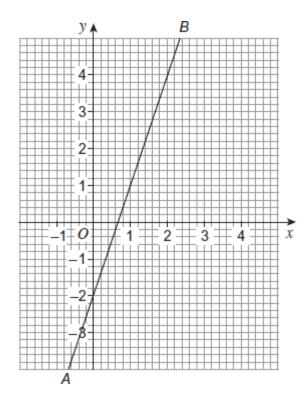
$$y = 2x + 2$$
 $y = 3x + 2$ $y = 4x + 2$ $y = 3.5x + 2$ (1)

(b) The equation of line QS is y = 2x - 4

Work out the ratio of lengths PQ: RS

Answer :....::

Q2.



ork out the equation of line AB.	
Answer(Total 3 ma	arks)

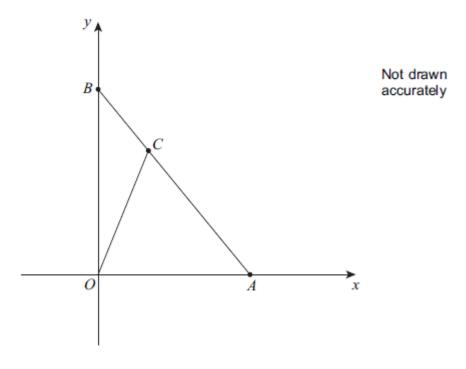
Q3.
A straight line has gradient -2 and passes through the point (-3, 10).
Work out the equation of the line.

Give your answer in the form $y = mx + c$	
Answer	
	Total 2 marks)

Q4.

The equation of line AB is y = 12 - 2x

The area of triangle OCA is 24 square units.

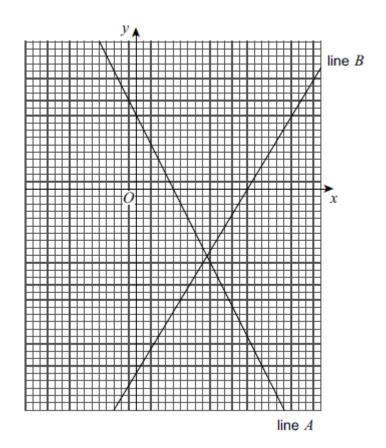


Work out the coord	linates of C.		

	Answer (, ,)	(Total 5 marks)
Q5.	The line $y = mx + c$ passes through the point (4, 3). It is parallel to the line $y = 5x + 6$	
	Work out the values of m and c .	
	<i>m</i> =, <i>c</i> =	(Total 3 marks)

Q6.

The graph shows two straight lines.



The equation of line A is y = 2 - x

work out the equation of line b.

(Total 4 marks)

Q7. (a)	A	A sequei	nce sta	ırts							
	4	8	12	16							
		The nth	n term	is 4 <i>n</i>							
		Circle t	he <i>n</i> th	term	of this see	quence					
	6	10	14	18							
		4 <i>n</i>			6 <i>n</i>	4 <i>n</i> + 2	6	6n + 2			
											(1)
(b)	These	points	are i	n a straigh	nt line.					
		F	oint 1	((4, 6)						
		F	oint 2	((8, 10)						
		F	oint 3	((12, 14)						
		F	oint 4	((16, 18)						
		Write d	lown th	e co	ordinates (of Point n in this	s sequ	ence.			
						Point n	(, ,)		(1)
(c)	١	Work o	out the	eans	ition of the	e straight line th	at nas	ses through	n these noint	te	
(0	,	VVOIR	out tile	Gqua	mon or me	s straight inte th	at pas	ses unougi	Tulese point		
				Α	nswer						
										(Total 4 marl	(2) ks)

Q8.Billy asked 20 people,

"What is your favourite crisp flavour?"

(a) Complete the tally chart to show Billy's results.

Favourite crisp flavour	Tally	Frequency
Plain		12
Cheese and Onion		
Barbecue		3
	Total	20

(2)

(b) Billy uses his tally chart to draw a pictogram.

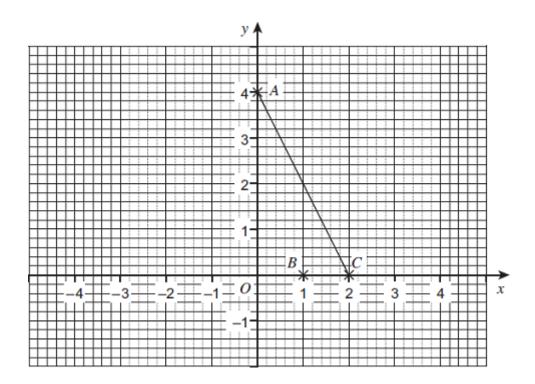
Complete the pictogram and the key.

Key: represents people

Plain	
Cheese and Onion	
Barbecue	

(3) (Total 5 marks)

Q9.Show clearly that the equation of the line through *B* parallel to AC is 2x + y = 2

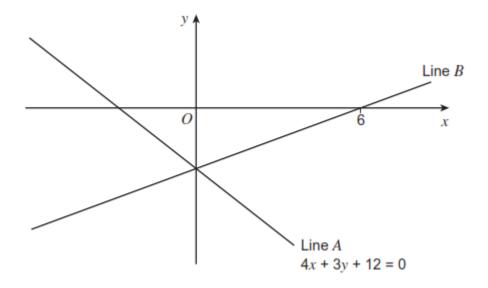


Q10.Lines, A and B, intersect on the y-axis.

Line B intersects the x-axis at the point (6, 0).

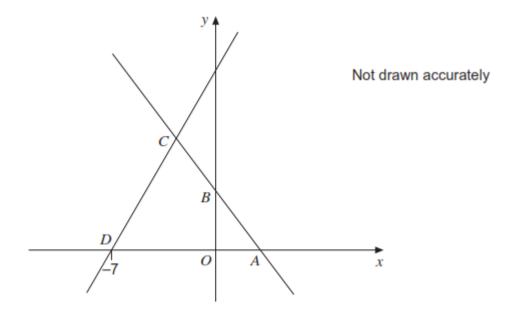
The equation of line *A* is 4x + 3y + 12 = 0

Not drawn accurately



Work out the equation of line B .	
Answer	
	(Total 4 marks)

Q11.In the diagram, points A, B and Clie on the line 2x + y = 6 B is the midpoint of AC. D is the point (-7, 0).



Answer	otal 5 marks)

Q12.Circle the **two** equations that are equivalent to 2y = 3x + 4

$$2x = 3y + 4$$

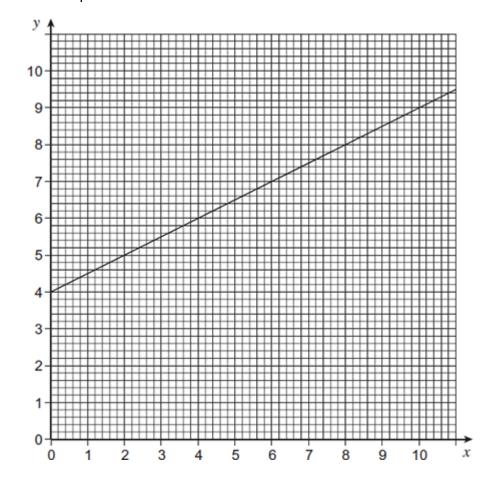
$$y - \frac{3}{2}x = 2$$

$$y = \frac{3}{2}x + 4$$

$$3x - 2y + 4 = 0$$

(Total 2 marks)

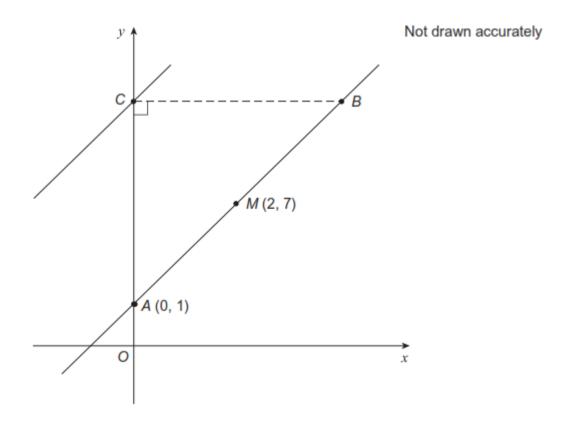
Q13.Work out the equation of the line shown.



Answer

(Total 3 marks)

Q14.On the grid, *A* is the point (0, 1). The midpoint, *M*, of *AB* is (2, 7). The gradient of *AB* is 3.



	Total 3 marks)
Answer	
Work out the equation of the line through C that is parallel to AB.	