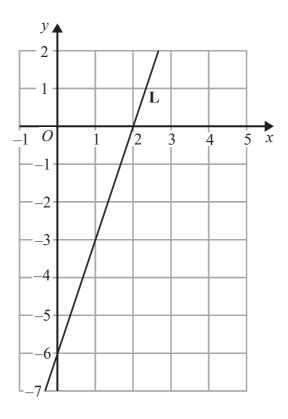
1	The equation of the line L_1 is $y = 2x + 3$ The equation of the line L_2 is $5y - 10x + 4 = 0$	<u>Summer 2022 Paper 2 Q12</u>
	Show that these two lines are parallel.	
_		(Total for Question 1 is 2 marks)

Autumn 2022 Paper 2 Q9

2	Here are the equations of two	straight lines.		Autumn 2022 1 aper 2 Q9
		$y = \frac{1}{2}x - 6$	6y = 3x + 7	
	Oscar says that these lines are	parallel.		
	Is Oscar correct? You must give a reason for you	our answer.		
			(Total for Question 2	is 2 marks)

<u>Summer 2018 Paper 2 Q3</u>

3 The line L is shown on the grid.



Find an equation for L.

(Total for Question 3 is 3 marks)

Summer	2017	Paper	1 Q6
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		<u>Summer 2017 Paper 1 Q6</u>
4	The equation of the line L_1 is $y = 3x - 2$ The equation of the line L_2 is $3y - 9x + 5 = 0$	
	Show that these two lines are parallel.	
	(Total for Qu	estion 4 is 2 marks)

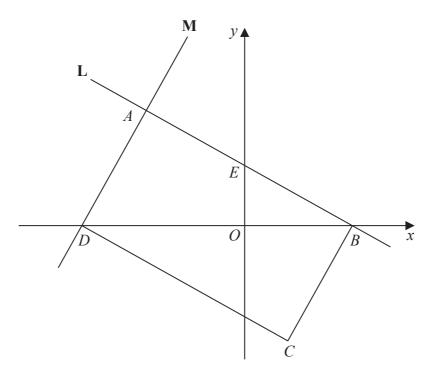
		<u>Summer 2019 Paper 2 Q16</u>
5	The straight line L has the equation $3y = 4x + 7$ The point A has coordinates $(3, -5)$	
	Find an equation of the straight line that is perpendicular to L and passes through	A.
	(Total for Question 5 is	3 marks)
		,

www.yesterdaysmathsexam.com Summer 2020 Paper 1 Q15 The straight line L_1 has equation y = 3x - 4The straight line L_2 is perpendicular to L_1 and passes through the point (9, 5) Find an equation of line L_2 (Total for Question 6 is 3 marks)

7	A is the point with coordinates (5, 9) B is the point with coordinates (d, 15)	<u>Autumn 2018 Paper 2 Q6</u>
	The gradient of the line AB is 3	
	Work out the value of d .	
_		(Total for Question 7 is 3 marks)

<u>Autumn 2017 Paper 1 Q19</u>

8



ABCD is a rectangle.

A, E and B are points on the straight line L with equation x + 2y = 12 A and D are points on the straight line M.

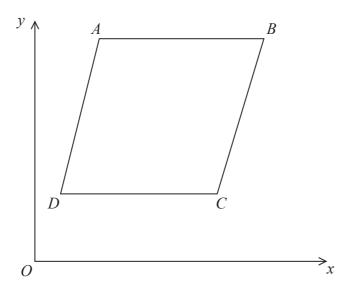
AE = EB

Find an equation for M.

		<u> Autumn 2017 Paper 2 Q19</u>
9	A triangle has vertices P , Q and R .	
	The coordinates of P are $(-3, -6)$ The coordinates of Q are $(1, 4)$ The coordinates of R are $(5, -2)$	
	M is the midpoint of PQ.N is the midpoint of QR.	
	Prove that <i>MN</i> is parallel to <i>PR</i> . You must show each stage of your working.	
	(Total	for Question 9 is 4 marks)
	(

<u>Summer 2017 Paper 1 Q18</u>

10



ABCD is a rhombus.

The coordinates of A are (5,11)The equation of the diagonal DB is $y = \frac{1}{2}x + 6$

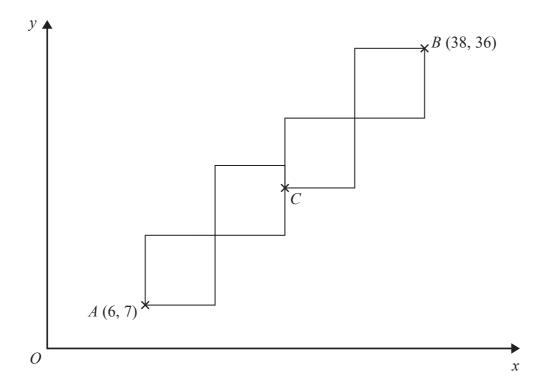
Find an equation of the diagonal AC.

(Total for Question 10 is 4 marks)

<u>Summer 2018 Paper 1 Q6</u>

11 A pattern is made from four identical squares.

The sides of the squares are parallel to the axes.



Point *A* has coordinates (6, 7) Point *B* has coordinates (38, 36)

Point *C* is marked on the diagram.

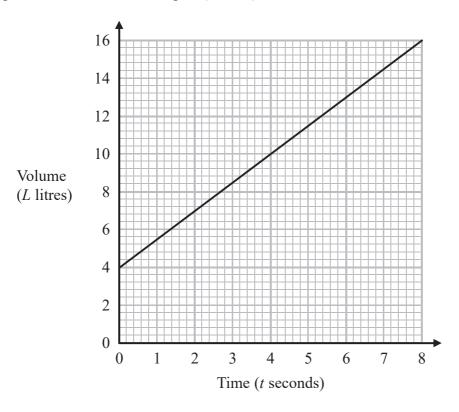
Work out the coordinates of C.

(.....,

(Total for Question 11 is 5 marks)

	www.yesterdaysmathsexa	m.com	
12	The point P has coordinates $(3, 4)$ The point Q has coordinates (a, b)		<u>Summer 2018 Paper 1 Q19</u>
	A line perpendicular to PQ is given by the equation $3x + 2$	2y = 7	
	Find an expression for b in terms of a .		
	I^{r}	Total for Question 12	is 5 marks)
		Total for Question 12	is s marks

13 The graph shows the volume of liquid (L litres) in a container at time t seconds.



(a) Find the gradient of the graph.

(2)

(b) Explain what this gradient represents.

(1)

The graph intersects the volume axis at L = 4

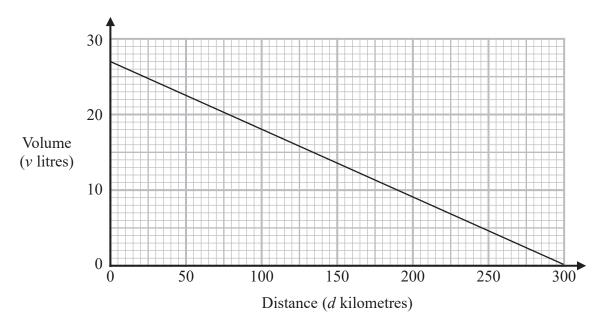
(c) Explain what this intercept represents.

(1)

(Total for Question 13 is 4 marks)

<u>Summer 2020 Paper 2 Q12</u>

14 The graph gives information about the volume, *v* litres, of petrol in the tank of Jim's car after it has travelled a distance of *d* kilometres.



(a) Find the gradient of the graph.

(b) Interpret what the gradient of the graph represents.

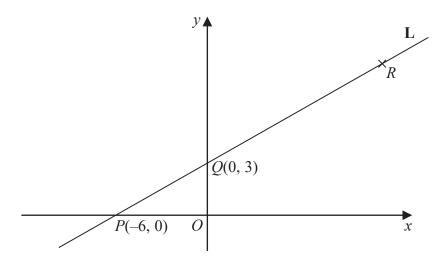
(1)

(2)

(Total for Question 14 is 3 marks)

Summer	2021	Paper	2	OII

15 Here is a sketch of the line L.



The points P(-6, 0) and Q(0, 3) are points on the line L.

The point R is such that PQR is a straight line and PQ:QR=2:3

(a) Find the coordinates of R.



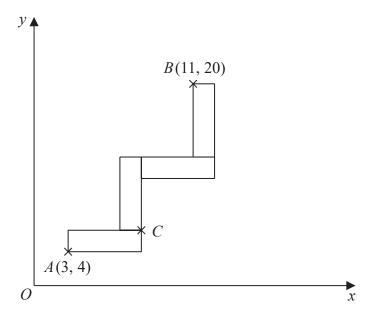
(b) Find an equation of the line that is perpendicular to ${\bf L}$ and passes through ${\it Q}.$

(3)

(Total for Question 15 is 5 marks)

Summer 2021 Paper 3 Q13

16 A pattern is made from four identical rectangles. The sides of the rectangles are parallel to the axes.



Point *A* has coordinates (3, 4) Point *B* has coordinates (11, 20) Point *C* is marked on the diagram.

Work out the coordinates of *C*. You must show all your working.

(.....

(Total for Question 16 is 5 marks)

<u>Autumn 2018 Paper 2 Q18</u> 17 The straight line L_1 passes through the points with coordinates $(4,\,6)$ and $(12,\,2)$ The straight line L_2 passes through the origin and has gradient -3The lines L_1 and L_2 intersect at point P. Find the coordinates of P. (....., (Total for Question 17 is 4 marks)

18	The straight line L has equation $3x + 2y = 17$	<u>Autumn 2019 Paper 2 Q25</u>
10		
	The point A has coordinates $(0, 2)$ The straight line \mathbf{M} is perpendicular to \mathbf{L} and passes through	$\operatorname{gh} A.$
	Line L crosses the y-axis at the point B. Lines L and M intersect at the point C.	
	Work out the area of triangle <i>ABC</i> . You must show all your working.	
		Total for Question 18 is 5 marks)

10		<u>Summer 2022 Paper 2 Q5</u>
19	The points L , M and N are such that LMN is a straight line.	
	The coordinates of L are $(-3, 1)$	
	The coordinates of M are $(4, 9)$	
	Given that $LM: MN = 2:3$,	
	find the coordinates of N .	
		(,)
	(Total for Questi	on 19 is 4 marks)