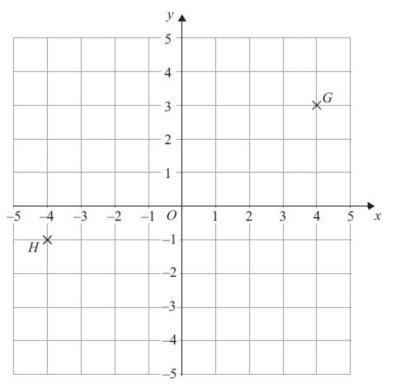
G012 Coordinates and 2D shapes

Q1.



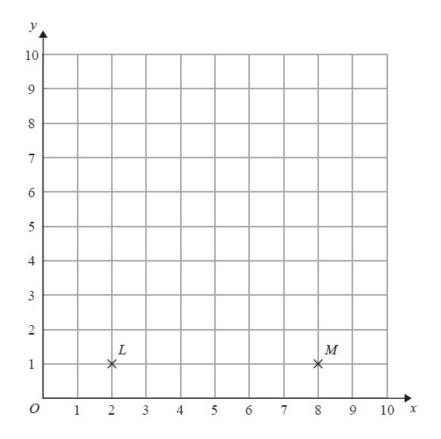
(a)	(i) Write down the coordinates of the point <i>G</i> .	
	(ii) Write down the coordinates of the point <i>H</i> .	
<i>(</i> 1. \		(2

(b) Find the coordinates of the midpoint of GH.

(2)

Q2.

Here is a coordinate grid.



(a) Write down the coordinates of the point M.

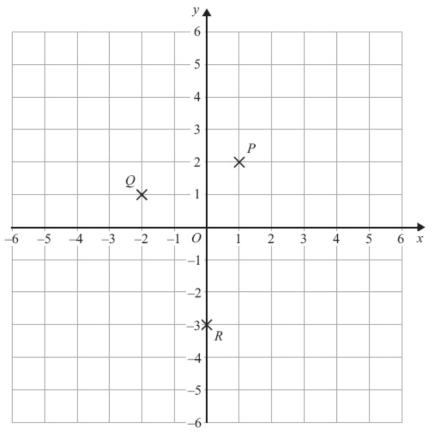
(,	
	(1)

LM is the shortest side of an isosceles triangle.

(b) Mark with a cross (x) a point N, so that LNM is an isosceles triangle.

(2)

Q3.



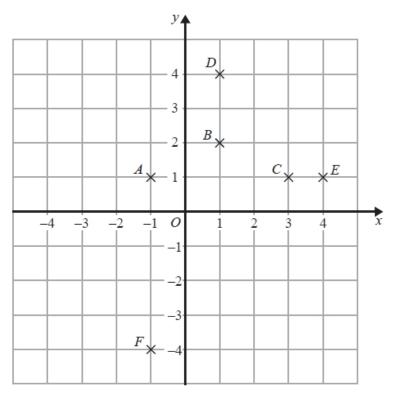
,)
(1)
,
(1)

P, Q and R are three vertices of a parallelogram.

(c) Write down the coordinates of the fourth vertex of this parallelogram.

(.						,)
												((1)

Q4.



The points A, B, C, D, E and F are shown on the grid.

One of these points has coordinates (4, 1).

(a) Which point?

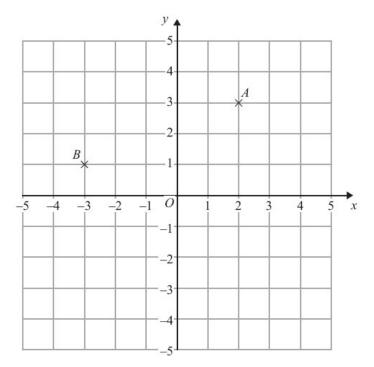
	(1)

(b) (i) On the grid, mark with a cross (x) a point *P* such that the shape *ABCP* is a kite. Label your point *P*.

(ii) Write down the coordinates of your point *P*.

(,)
	(2)

Q5.



((a)	(i)	Write	down	the	coordinates	of the	point	Α.

1																							١
	٠	•	•	•	•	•	•	•	•	•	٠	,	•	٠	•	•	•	•	•	٠	٠	•	٠,

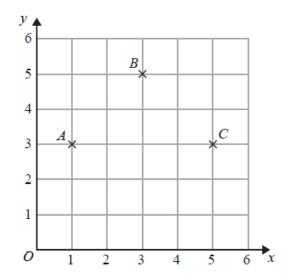
(ii) Write down the coordinates of the point ${\it B}$.

(,							.)
												(2)

(b) On the grid,	mark with	a cross	× the	point ((3, –4	4)
Label this point	C.					

(1)

Q6.



(a) Write down the coordinates of point C.

(, ,)
	(1)

(b) Write down the coordinates of the midpoint of AB.

,	,)
			(1)

(c) On the grid, mark with a cross (x) the point D so that ABCD is a square. Label this point D.

(1)

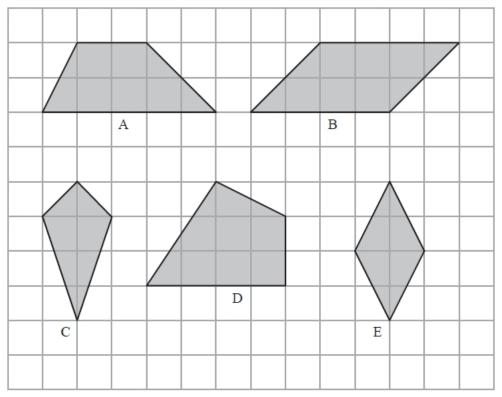
Q7.		
(a) On the grid, draw a kite.		
		(1)
(b) Here is a quadrilateral.		(1)
Write down the special name of the	is quadrilateral.	
		(1) (Total for Question is 2 marks)
Q8.		
Here is a polygon.		
(a) Write down the mathematical r	name of this polygon.	
		(1)
Here is a straight line.		
_		

(Total for question = 2 marks)

Here are nine shap	pes.		
A	В	C	
D	E	F	
G	Н	I	
(a) Write down th	e letter of a shape that has e	exactly one line of symmetry.	
			(1)
	es have rotational symmetry ne letters of these two shapes	of order 2 and no lines of symmetry.	
		and	(0)
			(2)
Shape D is a polyo (c) Write down th	gon. e mathematical name of this	type of polygon.	
			(1)
Shape E is a quad (d) Write down th	Irilateral. ne mathematical name of this	type of quadrilateral.	
			(1)
			. /

Q10.

Here are five shapes on a grid of squares.



(a) Write down the letter of the shape that is a rhombus.	
(b) How many lines of symmetry does shape C have?	(1)
Two of the shapes have rotational symmetry of order 2 (c) Write down the letters of these two shapes.	(1)
a	nd

(Total for question = 3 marks)

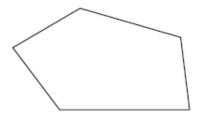
(1)

Here is a parallelogram.	
	7
(a) Write down the order of rotational symmetry of this pa	rallelogram.
	(1)
Here is a shape.	
(b) Draw all the lines of symmetry on this shape.	(2)
	(2)
Q12.	(Total for question = 3 marks)
Q12.	(Total for question = 3 marks)
Q12.	(Total for question = 3 marks)
Q12. (a) Write down the mathematical name of this polygon.	(Total for question = 3 marks)
	(Total for question = 3 marks)
(a) Write down the mathematical name of this polygon.	(Total for question = 3 marks)
	>
(a) Write down the mathematical name of this polygon.	>

(Total for question = 2 marks)

Q13.

Here is a polygon.



(a) Write down the mathematical name of the polygon.

.....(1)

(b) Draw a sketch of a hexagon.

(1)

(c) In the space below, draw accurately a rectangle with a length of 5 cm and a width of 3 cm.

(2)