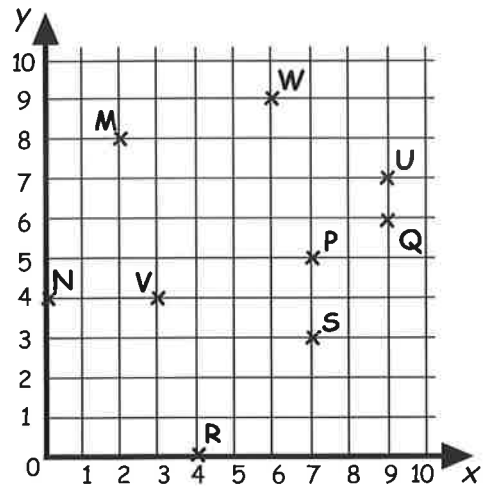


CHAPTER 15



Consolidation

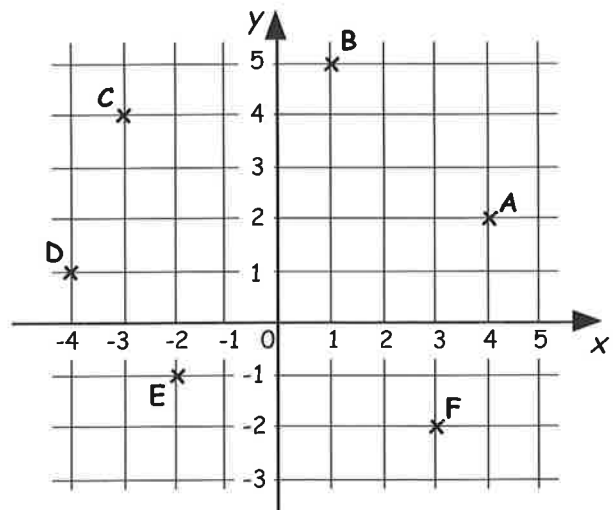
1. a Which point has coordinates :-
(i) $(9, 7)$ (ii) $(4, 0)$?
- b Write down the coordinates of :-
(i) M (ii) W.
- c When 4 of the points are joined a square is formed.
(i) Which 4 points?
(ii) Write down their coordinates.
- d Which point lies on the y-axis?
- e Name the point which has its x-coordinate 3 larger than its y-coordinate.



2. a Draw a coordinate grid like the one in question 1 on squared paper.
Make the horizontal and vertical axes both go up from 0 to 10.
- b Mark with a cross the following four points :-
A $(6, 3)$ **B** $(8, 5)$ **C** $(4, 9)$ **D** $(2, 7)$.
- c Join A to B to C to D and back to A. What shape have you formed?
- d Draw in the shape's two diagonals and state the coordinates of the point of intersection.

Exercise 1

1. Write down the coordinates of the 6 points shown in the coordinate diagram.



2. Draw a coordinate diagram the same as question 1 and plot the points :-

P(-3, 1) Q(-1, -2) R(1, 1) S(-1, 4).

What kind of quadrilateral is PQRS ?

3. a Draw a set of axes, (-5 to 5 on both scales) and plot the four points

K(-4, -1), L(2, -1), M(3,3), N(-3, 3).

b Join the four points and state what type of shape is formed.

c Reflect the four points over the *x*-axis to form another four-sided shape.

d Write down the coordinates of the four corners of this new reflected shape.

Revision Exercise

1. a Which point has coordinates :-

(i) (0, -3) (ii) (-3, 5)

(iii) (4, -2) (iv) (-4, -2) ?

b Write down the coordinates of :-

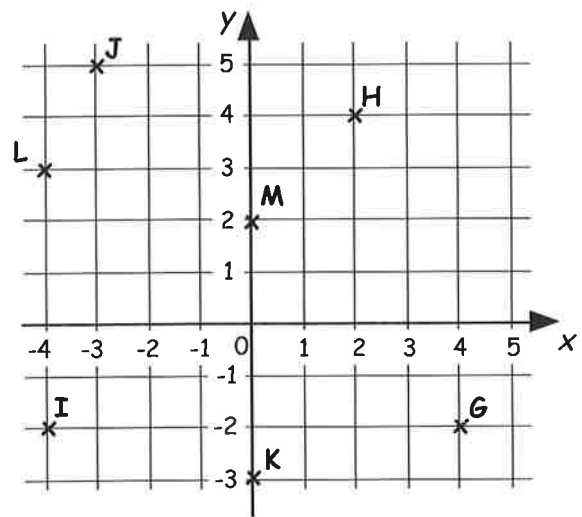
(i) H (ii) L.

c When K and 3 other points are joined a **KITE** is formed.

(i) Which 3 points ? (ii) Write down their coordinates.

d Which points lies on the *y*-axis ?

e Which point has its *y*-coordinate 8 more than its *x*-coordinate ?



2. a Draw a coordinate grid (-8 to 8 on both scales) and plot the points :-

A(-1, 4), B(-4, 1) and C(-1, -2).

b D is a point to be put on the grid so that figure **ABCD** is a **square**.

On your diagram plot the point D and write down its coordinates.

c Join A to C and join B to D.

You now have the two diagonals of the square.

Write down the coordinates of the point where the two diagonals meet.

d Reflect square **ABCD** in the *y*-axis and write down the coordinates of the corners of the new square.