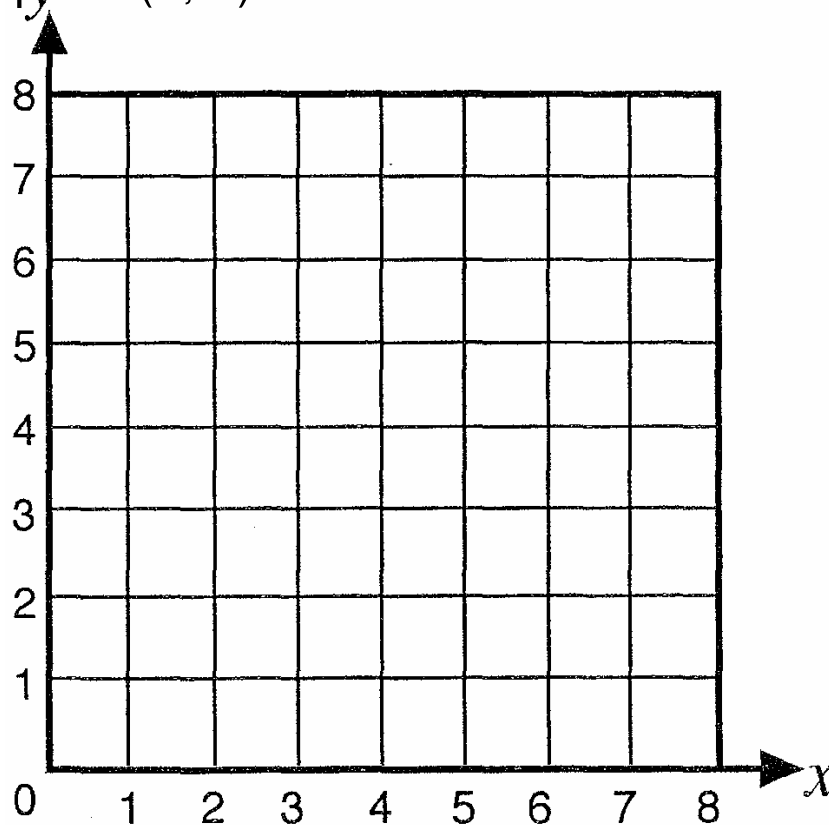
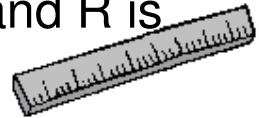


Chapter 7



Coordinates

1. a) Using the grid below, draw the square PQRS, where P is the point (2, 3) and R is the point (6, 7).



- b) What are the coordinates of Q and S?

(5)

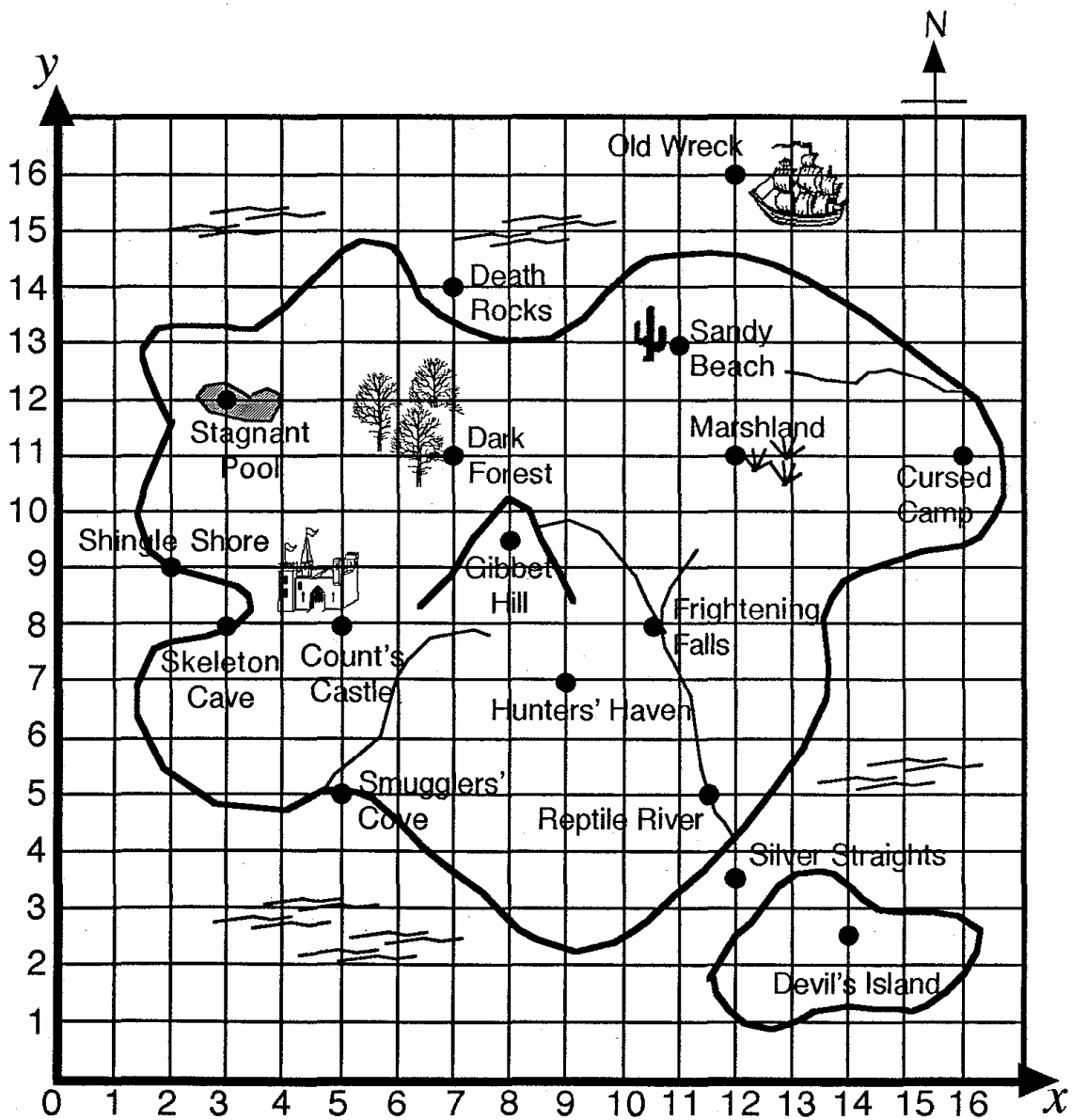
2. a) Which places on the map below are given by the following coordinates:

(i) (5, 5)

(ii) (7, 11)

(iii) (16, 11)

(iv) (3, 12)



b) Write down the coordinates of the following places:

(i) Marshland

(ii) Old Wreck

(iii) Count's Castle

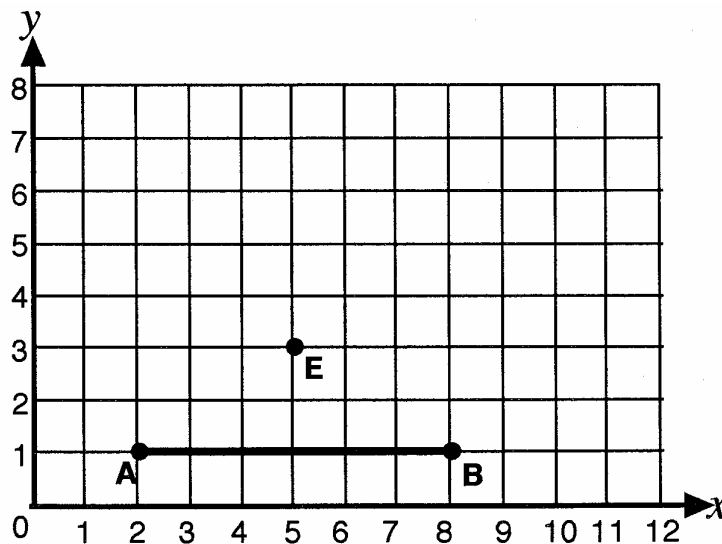
(iv) Shingle Shore

(8)

3. AB is one side of a rectangle ABCD.

E is the centre of the rectangle.

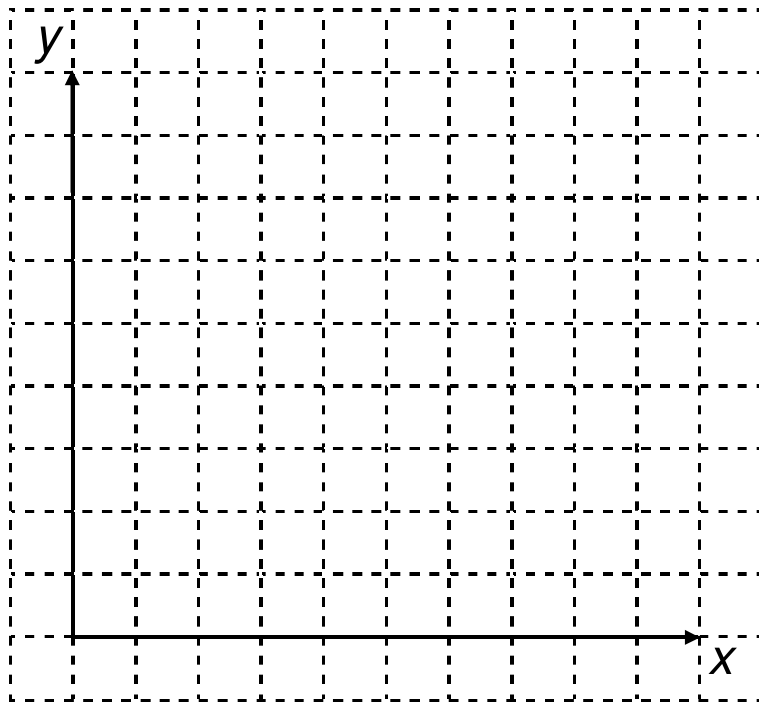
a) Complete the rectangle by plotting points C & D:



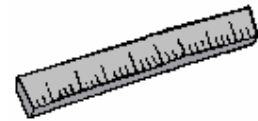
b) Write down the coordinates of A, B, C, D and E.

(7)

4.



- a) Plot the points $A(2,4)$ and $B(8,4)$.



Join A to B and find the point C which is the midpoint of AB (exactly halfway between A & B).

What are the coordinates of C ?

- b) Plot the points $P(3, 5)$ and $Q(3,9)$.

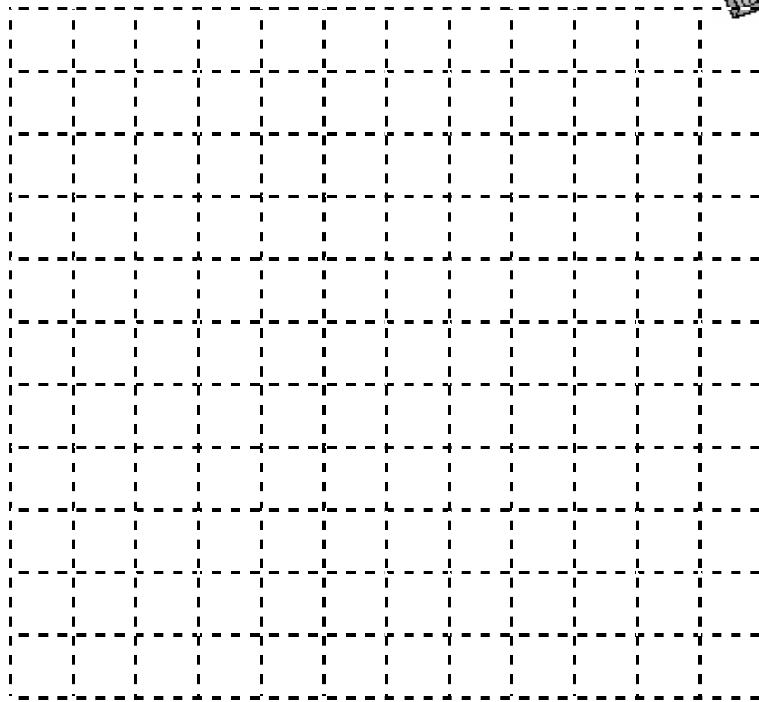
Join P to Q and mark the point R , which is the midpoint of PQ . What are the coordinates of R ?

- c) Plot the points $S(0, 5)$ and $T(4, 1)$.

What are the coordinates of the midpoint of ST ?

(9)

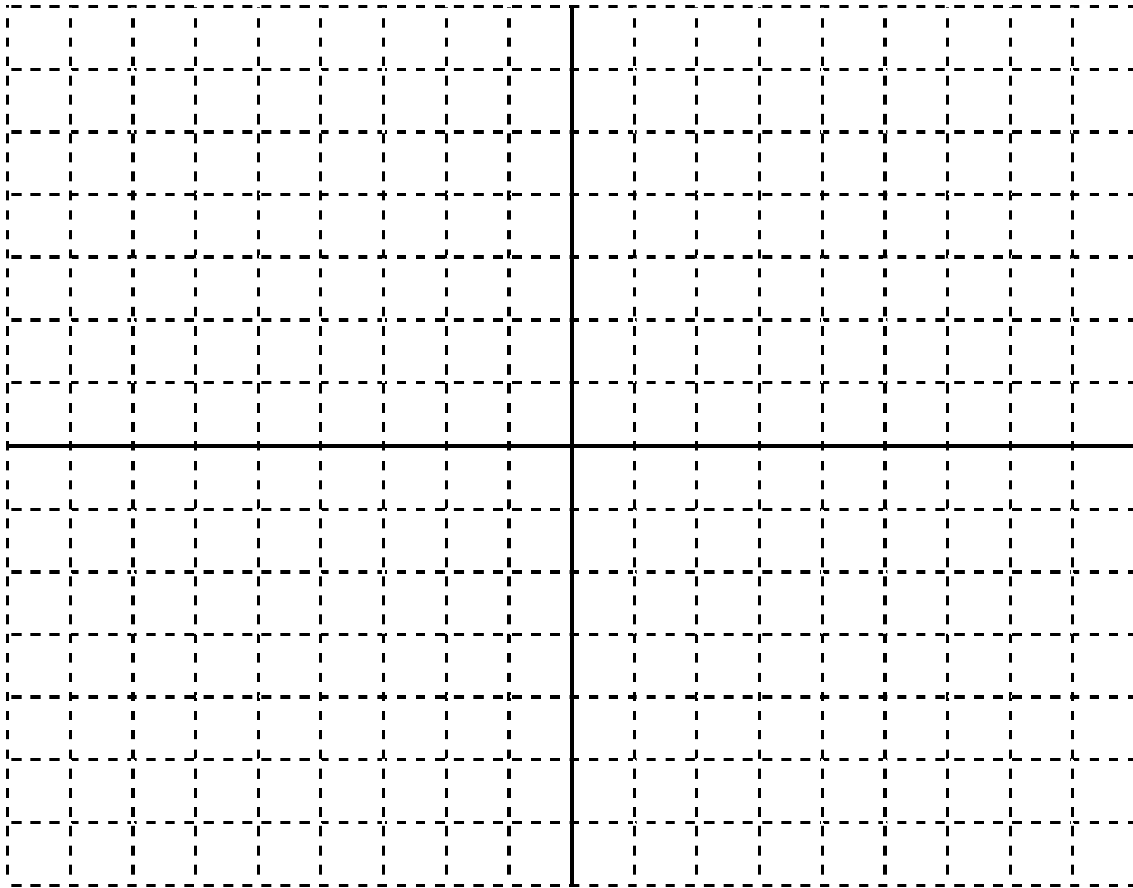
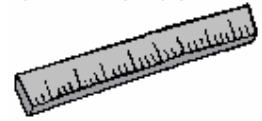
5. Using the grid below, draw an x-axis from 0 to 8 and a y-axis from 0 to 8.



- a) Plot the points $(0, 4)$, $(4, 4)$, $(7, 4)$.
Draw a line passing through the points.
- b) On the same grid, plot the points $(6, 0)$,
 $(6, 3)$ and $(6, 8)$.
Draw a line passing through the points.
- c) Write down the coordinates of the point
where the lines intersect.

(7)

6. Using the grid below, label the x -axis from -8 to 8 and the y -axis from -6 to 6.



Now plot these points, joining them up in order:

$$(-5,-5) \Rightarrow (6,-5) \Rightarrow (7,1) \Rightarrow (5,-1) \Rightarrow (2,0) \Rightarrow$$

$$(-1,-1) \Rightarrow (1,3) \Rightarrow (1,5) \Rightarrow (-1,5) \Rightarrow (-1,4) \Rightarrow$$

$$(-3,4) \Rightarrow (-1,3) \Rightarrow (-5,-5)$$

What have you created?

(6)

————— END OF HOMEWORK EXERCISE —————

[42]