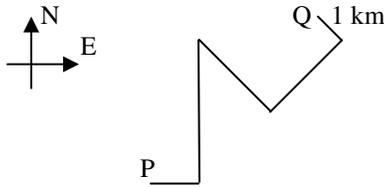


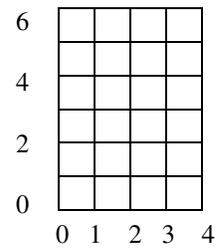
1. State the approximate distance and direction of each straight section when you travel along the path from point P to point Q.



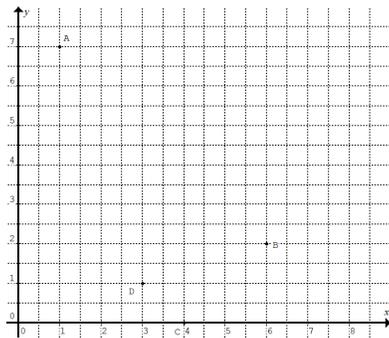
2. Estimate the distance and direction of Q from P.

3. (a) What fraction of a full turn is  $120^\circ$ ? (b) How many degrees will make a three-quarter turn?

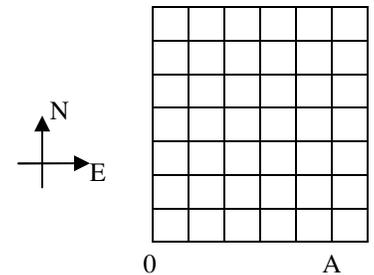
4. Mark down point A (3,2), point B (3,5), point C (2,5) and point D (2,2) on the grid. Draw lines to join the points. What shape is it?



5. Write down the coordinates of A, B, C and D.



6. The grid below is divided into unit squares. Start from point A (5,0), move 2 units north, 4 units west, 1 unit south, 1 unit east and finally 5 units north arriving at point B. Write down the coordinates of point B.



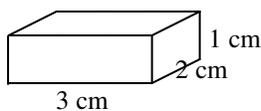
7. Refer to Q6.

(a) Find the shortest distance along the grid lines from A to B.  
 (b) On the grid in Q6 draw a path which has a total distance of 13 units from A to B along the grid lines.

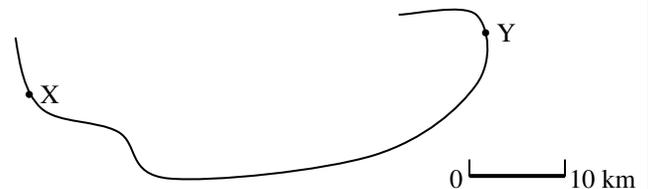
8. Refer to Q6.

Can you draw a path which has a total distance of 18 units from A to B along the grid lines?

9. The following diagram is a scale drawing of a large box measuring 150 cm by 100 cm by 50 cm. What is the scale used?



10. A scale bar is shown on the map below. Estimate the distance between Town X and Town Y along the road.



Numerical, algebraic and worded answers.

9. 1 : 50  
10. 60 km

5. A(1,7), B(6,2), C(4,0), D(3,1)  
 6. B(2,6) 7. (a) 9  
 8. Not possible. Only paths with odd number of units are possible.

1. 1.5 km east, 5 km north, 2.5 km SE, 2.5 km NE, 1 km NW  
 2. 6.5 km NE  
 3.  $1/3$ ,  $270^\circ$   
 4. Rectangle