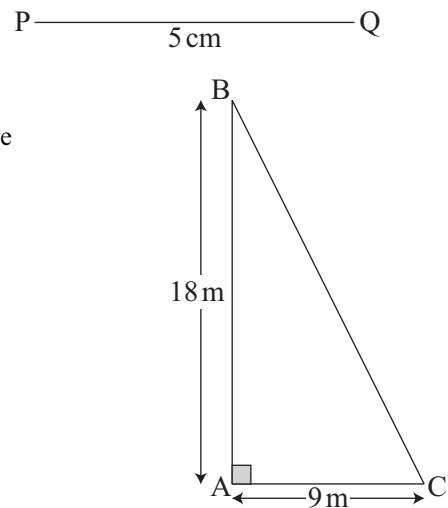


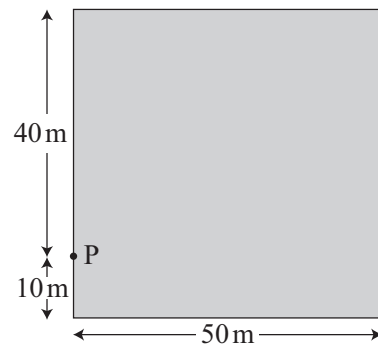
TASK 4.21

You will need a ruler and a pair of compasses.

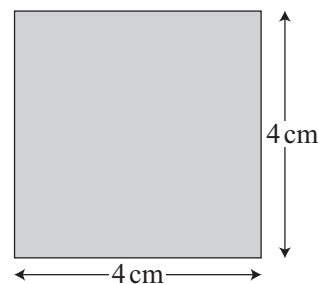
- 1. Draw the locus of all points which are less than or equal to 3 cm from a point A.
- 2. Draw the locus of all points which are exactly 4 cm from a point B.
- 3. Draw the locus of all points which are exactly 4 cm from the line PQ.
- 4. A triangular garden has a tree at the corner B. The whole garden is made into a lawn except for anywhere less than or equal to 6 m from the tree. Using a scale of 1 cm for 3 m, draw the garden and shade in the lawn.



- 5. In a field a goat is attached by a rope to a peg P as shown. The rope is 30 m long. Using a scale of 1 cm for 10 m, copy the diagram then shade the area that the goat can roam in.



- 6. Draw the square opposite. Draw the locus of all the points *outside* the square which are 3 cm from the edge of the square.



- 7. Each square is 1 m wide. The shaded area shows a building. A goat is attached by a chain 5 m long to the point A on the outside of the building. Draw the diagram on squared paper then shade the region the goat can cover.

