

Mathematics

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(Chapter – 3) (Coordinate Geometry)

(Class - 9)

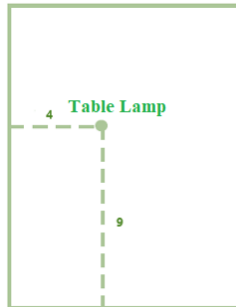
Exercise 3.1

Question 1:

How will you describe the position of a table lamp on your study table to another person?

Answer 1:

Table lamp is 9 unit away from the sitting place and 4 units away from the left side. Hence, its coordinates are $(4, 9)$.



Question 2:

(Street Plan): A city has two main roads which cross each other at the centre of the city. These two roads are along the North-South direction and East-West direction. All the other streets of the city run parallel to these roads and are 200 m apart. There are about 5 streets in each direction. Using $1\text{cm} = 200\text{ m}$, draw a model of the city on your notebook. Represent the roads/streets by single lines.

There are many cross-streets in your model. A particular cross-street is made by two streets, one running in the North - South direction and another in the East - West direction. Each cross street is referred to in the following manner: If the 2nd street running in the North - South direction and 5th in the East - West direction meet at some crossing, then we will call this cross-street $(2, 5)$. Using this convention, find:

- (i) how many cross-streets can be referred to as $(4, 3)$.
- (ii) how many cross-streets can be referred to as $(3, 4)$.

Answer 2:

- (i) Only one cross-street referred to as $(4, 3)$.
- (ii) Only one cross-street referred to as $(3, 4)$.

