

# Mathematics

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(Chapter -1) (Number Systems) (Exercise 1.2)

(Class - 9)

## Question 1:

State whether the following statements are true or false. Justify your answers.

(i) Every irrational number is a real number.

(ii) Every point on the number line is of the form  $\sqrt{m}$ , where  $m$  is a natural number.

(iii) Every real number is an irrational number.

## Answer 1:

(i) True, as the collection of all rational and irrational number is real numbers.

(ii) False, there are infinite number on number line between  $\sqrt{2}$  and  $\sqrt{3}$  that can't be represented as  $\sqrt{m}$ ,  $m$  being a natural number.

(iii) False, because real numbers can be rational also.

## Question 2:

Are the square roots of all positive integers irrational? If not, give an example of the square root of a number that is a rational number.

## Answer 2:

The square roots of all positive integers are not irrational, for example  $\sqrt{4} = 2$ , which is a rational number.

## Question 3:

Show how  $\sqrt{5}$  can be represented on the number line.

## Answer 3:

To represent  $\sqrt{5}$  on number line, take  $OB = 2$  units and make a perpendicular  $AB$  at  $B$  such that  $AB = 1$  unit.



Now by Pythagoras theorem, the length of  $OA$  is  $\sqrt{5}$ . Now taking  $O$  as centre and  $OA$  as radius, mark an arc on  $OB$ , which intersects at  $C$ . Hence,  $OC = \sqrt{5}$ .

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# Ncert Solutions Math 9th Logarithms

**Ensheng Dong**



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