

CLASS –IX

Maths

Date:-20/04/2020

CHAPTER 2 - NUMBER SYSTEMS

- Watch the online videos “NUMBER SYSTEMS -Lecture 1” from Optimum Online E-Learning Platform and try to comprehend the concepts of Representation of irrational numbers on Real Line. After that try to solve the questions given in your assignment.
 - Representation of irrational numbers on number line Lecture 3
 - Representation of irrational number on number line Lecture 4
1. Complete the following sentences:
 - i. Every point on the number line corresponds to a number which may be either or
 - ii. The decimal form of an irrational number is neither nor
 - iii. The decimal representation of a rational number is either or
 - iv. Every real number is either ... number or ... number.
 2. Represent $\sqrt{3.5}$, $\sqrt{9.4}$, $\sqrt{10.5}$ and on the real number line.
 3. Represent $\sqrt{6}$, $\sqrt{7}$, $\sqrt{8}$ on the number line.
 4. Find whether the following statements are true or false:
 - i. Every real number is either rational or irrational.
 - ii. π is an irrational number.
 - iii. Irrational numbers cannot be represented by points on the number line.
 5. Visualise 2.665 on the number line, using successive magnification.

6. Visualise the representation of $5.3\overline{7}$ on the number line upto 5 decimal places, that is upto 5.37777.
7. In the following equation, find which variables x, y, z etc. represent rational or irrational numbers:
- i. $x^2 = 5$
 - ii. $y^2 = 9$
 - iii. $z^2 = 0.04$
 - iv. $u^2 = 174$
 - v. $v^3 = 3$
 - vi. $w^2 = 27$
 - vii. $t^2 = 0.4$

8: Is zero a rational number? Can you write it in the form p/q, where p and q are integers and $q \neq 0$?



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