

**CLASS – IX**

**Maths**

**Date:-15/04/2020**

→ Watch the online videos “Number System -Lecture 1&2” from Optimum Online E-Learning Platform and try to comprehend the concepts of Rational numbers. After that try to solve the questions given in your assignment.

1. Is zero a rational number? Justify.

2. Represent each of the following rational numbers on the number line:

(i)  $5/7$  (ii)  $8/3$  (iii)  $-23/6$  (iv)  $1.3$  (v)  $-2.4$

3. Find a rational number between

(i)  $3/8$  and  $2/5$

(ii)  $1.3$  and  $1.4$

(iii)  $-1$  and  $1/2$

(iv)  $-3/4$  and  $-2/5$

(v)  $1/9$  and  $2/9$

4. Insert 16 rational numbers between 2.1 and 2.2.

5. State whether the following statements are true or false. Give reasons for your answer.

(i) Every natural number is a whole number.

(ii) Every whole number is a natural number.

(iii) Every integer is a whole number.

(iv) Every integer is a rational number.

(v) Every rational number is an integer.

(vi) Every rational number is a whole number.

6. Write each of the following in decimal form and say what kind of decimal expansion each has. (i)

$5/8$  (ii)  $7/25$  (iii)  $3/11$  (iv)  $5/13$  (v)  $11/24$  (vi)  $261/400$  (vii)  $231/625$  (viii)  $5/12$

7. Express  $2.\underline{36} + 0.\underline{23}$  as a fraction in simplest form.

8. Express each of the following decimals in the form  $\frac{p}{q}$ , where p, q are integers and  $q \neq 0$ .

(i)  $0.\underline{2}$       (ii)  $0.\underline{53}$       (iii)  $2.\underline{93}$       (iv)  $18.\underline{48}$       (v)  $0.\underline{235}$       (vi)  $0.00\underline{32}$   
(vii)  $1.\underline{323}$       (viii)  $0.3\underline{178}$       (ix)  $32.12\underline{35}$       (x)  $0.4\underline{07}$

5. Express in the form of  $\frac{p}{q}$  :

$0.\underline{38} + 1.\underline{27}$

**\*\*Link of Optimum Online E-Learning Platform:- [www.optimumschool.net/online](http://www.optimumschool.net/online)**

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