



PUBLIC SCHOOL DARBHANGA

SESSION (2020-21)

CLASS-IX

MATHEMATICS

Topic : Number Systems

Worksheet No.1

Q1. Is a zero rational number? Can you write it in the form of $\frac{p}{q}$, where p and q

are integers and $q \neq 0$?

Q2. Find six rational numbers between 3 and 4.

Q3. Find five rational numbers between $\frac{3}{5}$ and $\frac{4}{5}$.

Q4. State whether the following statements are true or false. Give reasons for your answer.

(i) Every natural number is a whole number.

(ii) Every integer is a whole number.

(iii) Every rational number is a whole number.

Q5. State whether the following statements are true or false. Justify your answer.

(i) Every irrational number is a real number.

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

(iii) Every real number is a irrational number.

Q6. Are the square roots of all the positive integers irrational? If not ,give an example of the square root of a number that is a rational number.

Q7. Show how can $\sqrt{5}$ can be represented on the number line.

Q8. Show how $\sqrt{2}$ can be represented on the number line.