Number Systems Class 9 Practice Set 1

Representation of Rational Numbers on Real Line

Q.1: Represent each of the following numbers on the number line:

(i)
$$\frac{3}{4}$$
 (ii) $\frac{5}{7}$ (iii) $\frac{8}{3}$ (iv) $\frac{-23}{5}$ (v) 1.3 (iv) - 2.4 (v) - $\frac{5}{3}$

Finding Rational Numbers between two given Rational Numbers

Q.2: Find a rational number between -2 and 6.

Q.3: Find a rational number between $\frac{-2}{3}$ and $\frac{1}{4}$.

Q.4: Find three rational numbers between -2 and 5.

Q.5: Insert 10 rational numbers between $\frac{-3}{11}$ and $\frac{8}{11}$.

Q.6: Find three rational numbers lying between $\frac{3}{5}$ and $\frac{7}{8}$.

Q.7: Find four rational numbers between $\frac{3}{7}$ and $\frac{5}{7}$.

Q.8: Find six rational numbers between 2 and 3.

Q.9: Find five rational numbers $\frac{3}{5}$ and $\frac{2}{3}$.

Q.10: Insert 15 rational numbers between 3.2 and 3.3.

Q.11: Find nine rational numbers between 0 and 0.1.

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Q.12: 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.
- (vii) Rational and irrational numbers combine to form real numbers.
- (viii) Every rational number is a real number.
- (ix) Every irrational number is a real number.
- (x) Every real number is an irrational number.
- (xi) Every real number is a rational number.
- (xii) Every real number is an integer.
- (xiii) Every real number is a natural number.
- (xiii) Every real number is a whole number.
- (xiv) Every natural number is a real number.
- (xv) Every integer is an irrational number.
- (xvi) Every integer is a real number.