**CHAPTER: 9 RATIONAL NUMBERS**

**Rational numbers**

A number of the form ,where p and q (≠0) are integers ,is called as rational numbers.

 **Equivalent rational numbers**

If the numerator and denominator of a rational numbers is multiplied by the same non negative integers, then another rational numbers are obtained which are equivalent

to given rational numbers.

**Positive and negative** **rational numbers**

A rational number in which numerator and denominator both are positive integers is called a **Positive rational numbers**.

A rational number in which the numerator is negative integer and denominator is positive integer, is **negative rational number** . similarly if the numerator is positive integer and denominator is negative integer ,the number is **negative rational number**.

**Rational numbers in standard form**

If the denominators of a rational numbers is positive integers and 1 is the only common factor between the numerators and denominators ,such a rational number is said to be in standard form.

**Rational numbers between two rational numbers**

There are infinitely many rational numbers between two rational numbers

**Level I**

(Q.1) Is the number a rational?

(Q.2) Is 5 and -8 a rational number ? Also classify them as positive and negative

 rational numbers.

 (Q.3) What will be the reciprocal of ?

 (Q.4) Write down the rational number equivalent to.

(Q.5) ) Is rational numbers in the standard form .

 (Q.6)Write down the numerator of rational number ?

(Q.6) How many rational numbers lies between two rational numbers?

**Level II**

(Q.8) Find the reciprocal of . Also multiply its reciprocal by .

 (Q.9) Draw the number line and represent the following on number line

 (i) (ii) 

 (Q.10) Write the following rational numbers in simplest form:

 (i)  (ii) 

 (Q.11) Find the value of (-4) ÷ 

 (Q.12) What is the numerator of a rational number 0?

 (Q.13) Find × (-7)

**Level III**

(Q.14) Write down four rational number equivalent to .

(Q.15) List five rational number between

 (i) -2 and -3 (ii)  and 

(Q.16) Write the following rational numbers in ascending order:

 

(Q.17) Find 

(Q.18) F ill in the box with the correct symbol out of ˂, ˃, =

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**WORK SHEET**

(Q.1) Write down  in standard form?

 (Q.2) Write down six rational number equivalent to .

(Q.3) Which is greater or ?

 (Q.3) Write down two rational numbers between -1 and 0?

 (Q.4) Multiply  by .

 (Q.5) Find - .