

# O.P JINDAL SCHOOL, SAVITRINAGAR

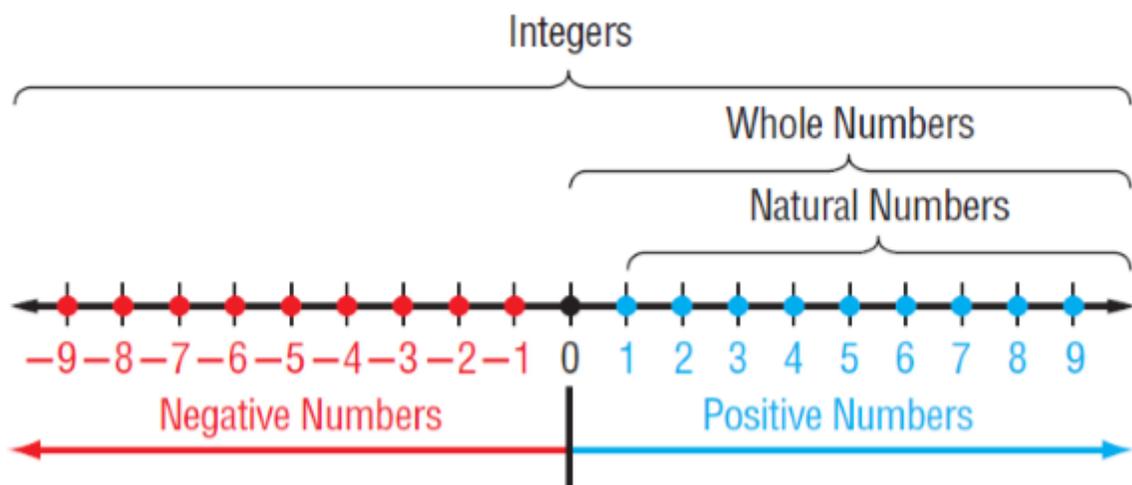
## PRACTICE PAPER – 02

CLASS VIII( MATHEMATICS)

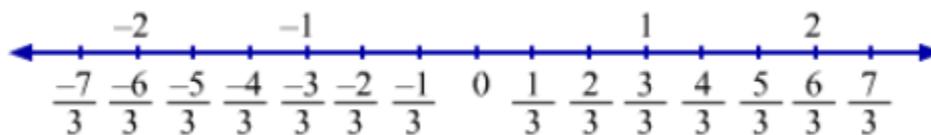
TOPIC: RATIONAL NUMBERS

Representation of Rational Numbers on the Number Line

On the number line, we can represent the Natural numbers, whole numbers and integers as follows

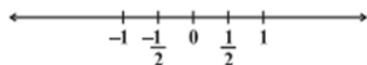


**Rational Numbers can be represented as follows**



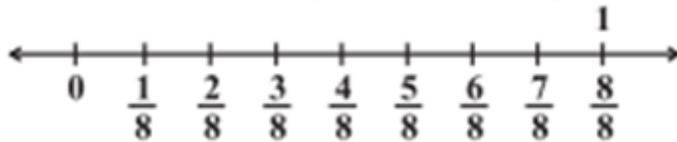
The number line for rational line will extend from  $-\infty$  to  $\infty$ .

Let us look at some examples:



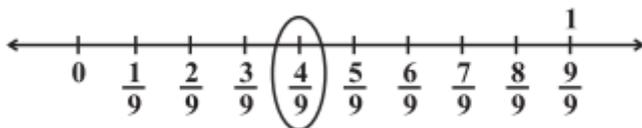
1. A number line showing rational number  $\frac{1}{2}$  and  $-\frac{1}{2}$ . Here,  $\frac{1}{2}$  divides the distance between 0 and 1 into two equal parts.

2. Similarly,  $\frac{1}{8}$  can be represented by dividing distance between 0 and 1 into eight equal parts.



From examples (1) and (2), we can say that any rational number can be shown on the number line. For any given rational number, the denominator informs about the number of equal parts into which the first unit has been divided and numerator informs about 'how many' of these parts are to be considered.

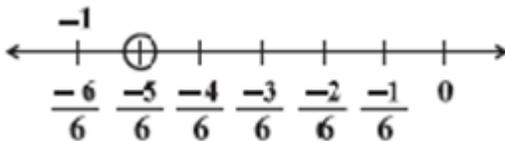
For example, a rational number  $\frac{4}{9}$  means four of nine equal parts on the right of 0.



**Some Examples:**

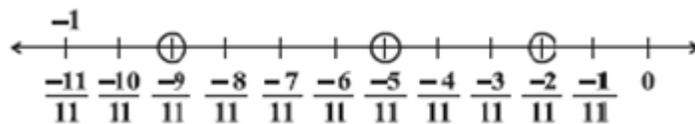
**Example 1:** Represent  $\frac{-5}{6}$  on the number line.

*Solution:*



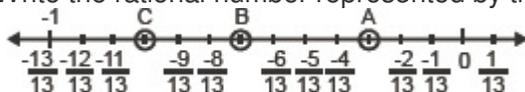
**Example 2:** Represent  $-\frac{2}{11}$ ,  $-\frac{5}{11}$  and  $-\frac{9}{11}$  on the number line.

*Solution:-*



Answer the following Questions:

1. Represent the following rational numbers on the number line. (i)  $\frac{3}{10}$  (ii)  $\frac{8}{7}$  (iii)  $\frac{3}{5}$  (iv)  $\frac{21}{7}$
2. Write the rational number represented by the points A, B, and C on the following number line:



**N.B- This sheet is prepared from home**