Representation of Rational Numbers on Number Line

To represent rational numbers on the number line, we draw a line and mark a point O on it to represent the rational number zero. The positive rational numbers will be represented by points on the right side of O, and negative rational numbers will be represented by the points on the left side of O.

Let us understand with an example:

Example: Represent -8/5, -3/5, 2/5, and 11/5 on a number line.

Solution:

2/5 and 11/5are positive rational numbers and -8/5 and -3/5 are negative rational numbers.

Here, the denominator is 5 so we will divide each unit length into 5 subunits.