

## Representing Decimals on Number Line

 **To represent decimal on number line we have to follow some basic rules:**

**Step 1:** Draw a number line and mark the whole numbers 0,1,2,3, etc, on it.


**Step 2:** Divide the portion between the whole numbers into equal 2 parts or 3 parts or 4 parts or any other parts as per requirement.

 **Let us understand with some examples:**

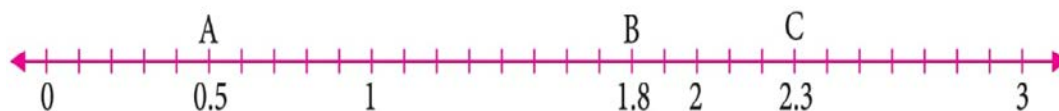
**Example:** Represent the following decimals on the number line.

(i) 0.5


(ii) 1.8

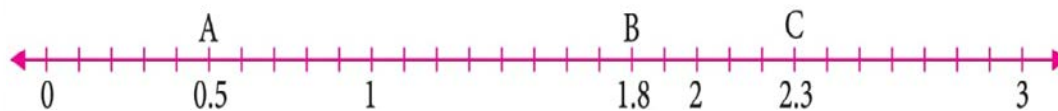
 **Solution:** (i) We know that 0.5 is more than zero but less than 1.

There are 5 tenths in 0.5. Divide the unit length between 0 and 1 into 10 equal parts and take 5 parts as shown in figure at A.



Thus, point A shows 0.5.

 **Solution:** (ii) The decimal 1.8 has 1 as whole number and 8 tenths. Therefore, the point lies between 1 and 2. Divide the unit length between 1 and 2 into 10 equal parts and take 8 parts as shown in the figure at B.



Thus, point B shows 1.8.