

Date: 16/05/2020

Class-8th
Maths

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Representation of rational numbers on the number line.

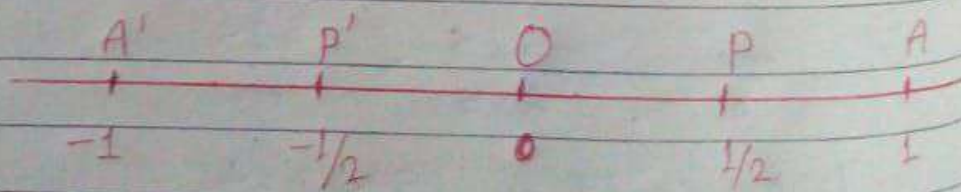
Question: Represent $\frac{1}{2}$ and $-\frac{1}{2}$ on the number line.

Solution: Draw a line. Take a point O on it. Let it represent 0. Set off unit lengths OA and OA' to the right and to the left of O respectively.

Then, A represents the integer 1 and A' represents the integer -1.

Now, divide OA into two equal parts. Let OP be the first part out of these two parts. Then, the point P represents the rational number $\frac{1}{2}$.

Again, divide OA' into two equal parts. Let OP' be the first part out of these 2 parts. Then, the point P' represents the rational number $-\frac{1}{2}$.



H.W.

Question: Represent $\frac{2}{3}$ and $-\frac{2}{3}$ on the number line.