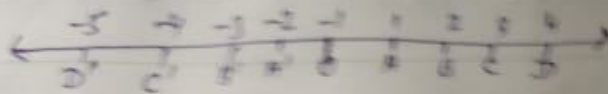


Assignment - II
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Sub. Maths

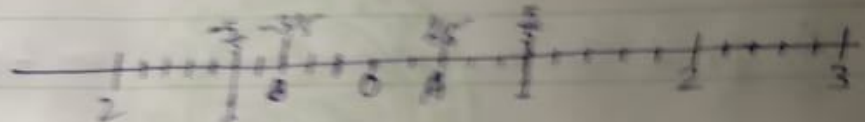
18.04.20

Representation of rational numbers on the number line:

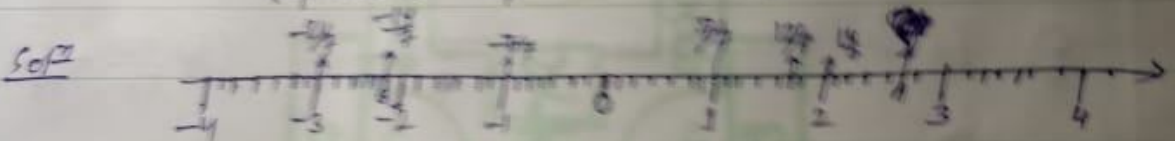
Every rational number can be represented by some point on the no. line. Integers, positive rational numbers lie on right of zero and -ve rational no. lie on the left of zero.



Example - 1 Represent $\frac{7}{5}$ and $-\frac{3}{5}$ on the number line.



Example - 2 Represent $2\frac{3}{7}$ and $-1\frac{5}{7}$ on the number line.



Example - 3 Find 15 rational numbers between $\frac{1}{4}$ and $\frac{1}{2}$

Solⁿ :- Convert $\frac{1}{4}$ and $\frac{1}{2}$ into decimal form

$$\frac{1}{4} = 0.25 \text{ and } \frac{1}{2} = 0.50$$

We find 15 rational numbers between 0.25 and 0.50.

These are 0.26, 0.27, 0.28, 0.29, 0.30, 0.31, 0.32, 0.33

0.34, 0.35, 0.36, 0.37, 0.38, 0.39, 0.40

or $\frac{26}{100}, \frac{27}{100}, \frac{28}{100}, \frac{29}{100}, \frac{30}{100}, \frac{31}{100}, \frac{32}{100}, \frac{33}{100}, \frac{34}{100}, \frac{35}{100}, \dots$ etc.

or $\frac{13}{50}, \frac{27}{100}, \frac{7}{25}, \frac{31}{100}, \frac{3}{10}, \dots$ etc.

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1. Represent the following rational no. on number line. :

(a) $\frac{2}{3}$ (b) $-\frac{5}{7}$ (c) $4\frac{2}{3}$ (d) $-\frac{13}{8}$

(e) $-2\frac{5}{6}$

2) find three rational numbers between -2 and 0

3) find six rational numbers between 0 and 3.

4) find seven rational no. between -5 and -2.

5) find eight ^{rational} numbers between $\frac{2}{3}$ and $\frac{3}{4}$.

6) find the Sum (a) $-\frac{4}{23} + \frac{6}{23}$ (b) $\frac{10}{51} + \frac{5}{17}$

7) Subtract : (a) $\frac{5}{8}$ from $\frac{3}{8}$

(b) $-\frac{13}{19}$ from $\frac{5}{19}$.