

Solve the following inequalities & graph it on number line.

$$1) \quad 4\frac{3}{4} \gg x + \frac{5}{6} > \frac{1}{3}, \quad x \in \mathbb{R}$$

$$2) \quad \frac{1}{3}(2x-1) < \frac{1}{4}(x+5) < \frac{1}{6}(3x+4), \quad x \in \mathbb{Z}$$

$$3) \quad 9x-9 \leq 4x-7 < 2x+5, \quad x \in \mathbb{N}$$

$$4) \quad 2x-7 \leq 5x+2 \leq 3x+14, \quad x \in \mathbb{N}$$

$$5) \quad 3 \gg \frac{x-4}{2} + \frac{x}{2} \gg 2, \quad x \in \mathbb{R}$$

$$6) \quad -\frac{8}{3} \leq x + \frac{1}{2} < \frac{1}{3}, \quad x \in \mathbb{N}$$

$$7) \quad -3 < -\frac{1}{2} - \frac{2x}{3} < \frac{5}{6}, \quad x \in \mathbb{R}$$

class 10(Amitava  
Majumdar)

- 2.) Mr Paul invests ₹600 per month for  $2\frac{1}{2}$  yrs in R.D. scheme of a State Bank. If the bank pays interest at  $6\frac{2}{3}\%$  p.a., find the amount received by him. [Ans. = ₹19530]
3. Mrs Gupta gets ₹6655 at the end of one yr at the rate of 14% p.a. in a R.D. account. Find the monthly instalment. [Ans. = ₹2500]
3. Mohit has a R.D. account & deposits ₹240 per month for 2 yrs. If the maturity value is ₹6300. Find Rate. [Ans. = 9%]
4. Mr Sha has a R.D. account in a bank. He deposits ₹800 per month & gets ₹15198 as maturity value. If the rate of interest be 7% p.a. Find the total time for which the account was held (Ans. = 18 Months)

Class 10A(chemistry)  
Amitava Majumdar