

Subject: Maths

Unit: 1st

Paper: A & B

M.M: 20

Solve the following questions

Q1: Using appropriate properties find

$$\frac{-2}{3} \times \frac{3}{5} + \frac{5}{2} - \frac{3}{5} \times \frac{1}{6} \quad \text{OR} \quad \frac{2}{5} \left(\frac{-3}{7} \right) - \frac{1}{6} \times \frac{3}{2} + \frac{1}{14} \times \frac{2}{5} \quad (2)$$

Q2: Multiply $\frac{6}{13}$ by the reciprocal of $-\frac{7}{16}$ (2)Q3: Represent $\frac{7}{4}$ & $-\frac{5}{6}$ on a number line (2)

Q4: Write five rational numbers which are smaller than 2 and write five rational numbers greater than -2. (2)

Q5: Solve the following equation & check your result:
 $4z + 3 = 6 + 2z$ OR $3m = 5m - \frac{8}{5}$ (2)

Q6: Solve the following linear equation

$$\frac{x+7}{3} - \frac{8x}{6} = \frac{17}{6} - \frac{5x}{2} \quad \text{OR} \quad m - \frac{(m-1)}{2} = 1 - \frac{(m-2)}{3} \quad (2)$$

Q7: Simplify and solve the following equations (2)

$$3(t-3) = 5(2t+1) \quad \text{OR} \quad 3(5z-7) - 2(9z-11) = 4(8z-13) - 17$$

Q8: Sahil's mother's present age is six times Sahil's present age. Sahil's age five years from now will be one third of his mother's present age. What are their present age. (2)

Q9: Fill in the blanks

(4)

- (i) Zero has _____ reciprocal
- (ii) The numbers _____ and _____ are their own reciprocal
- (iii) The reciprocal of -5 is _____
- (iv) The product of two rational number is always a _____.