

Class 8th

Unit 1st

Subject: Maths

M. Marks: 20

Solve the following questions:

Q1: Using appropriate properties find

$$-\frac{2}{3} \times \frac{3}{5} + \frac{5}{2} - \frac{3}{5} \times \frac{1}{6}$$

OR

$$\frac{2}{5} \times \left[-\frac{3}{7}\right] - \frac{1}{6} \times \frac{3}{2} + \frac{1}{14} \times \frac{2}{5}$$

②

Q2: (a) Multiply $\frac{6}{13}$ by the reciprocal of $-\frac{7}{16}$.

(b) Is $\frac{8}{9}$ the multiplication inverse of $-1\frac{1}{8}$? Why or why not? ②

Q3: (a) Write five rational no's which are smaller than 2. ②

(b) Write ten rational no's between $-\frac{2}{5}$ and $\frac{1}{2}$.

Q4: Solve the following equations:

(a) $\frac{t}{5} = 10$ (b) $1.6 = \frac{y}{1.5}$

②

Q5: (a) The sum of three consecutive multiples of 8 is 888. Find the multiples ②

(b) Sum of two no's is 95. If one exceeds other by 15, find the no.

Q6: (a) 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 ages.

(b) A grandfather is ten times older than his granddaughter. He is also 54 years older than her. Find their present ages. ②

Q7: Solve the following equations:

(a) $m - \frac{m-1}{2} = 1 - \frac{m-2}{3}$ (b) $0.25(4t-3) = 0.05(10t-9)$

②

Q8: Solve the following equations:

(a) $\frac{z}{z+15} = \frac{4}{9}$

(b) $\frac{7y+4}{y+2} = \frac{-4}{3}$

(2)

Q9: Fill in the blanks:

i) Zero has — reciprocals

ii) The numbers — and — are their own reciprocals.

iii) The reciprocal of -5 is —

iv) Reciprocal of $\frac{1}{x}$, where $x \neq 0$ is —.

(4)