

VII — Mathematics Assignment No. - 06 Rational Numbers.

Q1. Divide $\frac{25}{32}$ by $\frac{8}{5}$

Q2. Divide $-\frac{8}{15}$ by $-\frac{4}{25}$

Q3. Simplify $2\frac{1}{5} \div 3\frac{1}{4}$

Q4. Prove that $\frac{5}{11} + \frac{15}{22} \neq \frac{15}{22} \div \frac{5}{11}$

Q5. Compute $\left(\frac{2}{3} \div \frac{4}{15}\right) \div \frac{1}{-3}$ and $\frac{2}{3} \div \left(\frac{4}{15} \div \frac{1}{-3}\right)$
Are they equal?

Q6. The product of two numbers is $-\frac{35}{81}$. If one of them is $-\frac{7}{18}$, find the other.

Q7. Calculate $\left(\frac{2}{3} \div \frac{5}{6}\right) \times \left(-\frac{1}{8}\right)$

Q8. Divide the sum of $2\frac{1}{3}$ and $1\frac{1}{7}$ by the difference of $3\frac{1}{3}$ and $1\frac{1}{2}$

Q9. The length of a rope is 9 m. How many pieces of $2\frac{1}{4}$ m can be cut from this rope?

Cont Pg-2

- Q10. By what number should we multiply $\frac{14}{39}$ to get the product as $-\frac{7}{13}$?
- Q11. The cost of $2\frac{3}{4}$ metres of cloth is Rs $73\frac{1}{3}$. Find the cost of cloth per metre.
- Q12. Divide the sum of $\frac{13}{5}$ and $-\frac{12}{7}$ by the product of $-\frac{31}{7}$ and $\frac{1}{-2}$.
- Q13. By what number should $-\frac{33}{8}$ be divided to get $-\frac{11}{2}$?
- Q14. By what rational number should $-\frac{8}{39}$ be multiplied to obtain 26?
- Q15. The price of 12 books is Rs $181\frac{1}{5}$. Find the price of each book.

ANSWERS.

(Q1) $\frac{25}{256}$	(Q6) $\frac{10}{9}$	(Q11) Rs $26\frac{2}{3}$
(Q2) $\frac{10}{3}$	(Q7) $-\frac{1}{10}$	(Q12) $\frac{2}{5}$
(Q3) $\frac{44}{65}$	(Q8) $\frac{146}{77}$	(Q13) $\frac{3}{4}$
(Q5) not equal	(Q9) 4	(Q14) $-\frac{507}{4}$
	(Q10) $-\frac{2}{3}$	(Q15) Rs 15.10