

VIII — Mathematics Assignment No-04-Rational Nos.

- Q1. Insert 5 rational numbers between $-\frac{1}{3}$ and $\frac{1}{2}$
- Q2. Insert 3 rational numbers between $\frac{1}{6}$ and $\frac{1}{3}$
- Q3. Prove that $\frac{2}{3} \times \left(\frac{11}{12} \times \frac{-15}{22}\right) = \left(\frac{2}{3} \times \frac{11}{12}\right) \times \frac{-15}{22}$
- Q4. Is $\frac{8}{9}$ the multiplicative inverse of $-1\frac{1}{8}$?
Why or why not.
- Q5. Verify $-(x+y) = (-x) + (-y)$ if
 $x = \frac{-2}{3}$ and $y = \frac{-5}{7}$
- Q6. What should be added to $\frac{19}{27}$ to make it $-\frac{13}{15}$
- Q7. Simplify the following
(i) $\left(-\frac{2}{3}\right) + \frac{5}{9} + \left(\frac{-7}{6}\right)$
(ii) $\frac{1}{12} + \left(\frac{-5}{18}\right) + \left(\frac{-7}{24}\right)$
- Q8. Verify the property: $x \times (y \times z) = (x \times y) \times z$ if
 $x = \frac{7}{4}$, $y = \frac{-11}{3}$, $z = \frac{1}{2}$
- Q9. Verify the property: $x \times (y + z) = (x \times y) + (x \times z)$
if $x = \frac{-3}{4}$; $y = \frac{5}{2}$; $z = \frac{7}{6}$
- Q10. Verify that $(x \div y) \times z \neq x \div (y \times z)$ if
 $x = \frac{8}{15}$, $y = \frac{2}{5}$, $z = \frac{4}{10}$

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ANSWERS

<p>(Q1) $-\frac{3}{12}, \frac{-2}{12}, \frac{-1}{12}, \frac{0}{12}, \frac{1}{12}$ This is one Ans There may be different other Ans.</p>	<p>(Q4) not M.I (Q6) $\frac{-212}{135}$</p>	<p>Q7 (ii) $-\frac{35}{72}$ Q8</p>
<p>(Q2) $\frac{1}{4}, \frac{13}{48}, \frac{7}{24}$</p>	<p>(Q10) $-\frac{23}{15}$</p>	<p>Downloaded from www.studiestoday.com</p>