Rational Numbers Ex 1.4 Q3

Answer :

(i)

$\frac{-3}{2}+\frac{5}{4}-\frac{7}{4}$

Taking *the* $L.C.M.$ of the denominators :

$\frac{-6}{4}+\frac{5}{4}-\frac{7}{4}$

$=\frac{-6+5-7}{4}$

$=\frac{-8}{4}$

$=-2$

(ii)

$\frac{5}{3}-\frac{7}{6}+\frac{-2}{3}$

Taking *the* $L.C.M.$ of the denominators :

$\frac{10}{6}-\frac{7}{6}+\frac{-4}{6}$

$=\frac{10-7+(-4)}{6}$

$=\frac{10-7-4}{6}$

$=\frac{-1}{6}$

(iii)

$\frac{5}{4} - \frac{7}{6} - \frac{-2}{3}$

Taking *the* $L.C.M.$ of the denominators :

$\frac{15}{12} - \frac{14}{12} - \frac{-8}{12}$

$= \frac{15-14-(-8)}{12}$

$= \frac{15-14+8}{12}$

$= \frac{9}{12}$

$= \frac{3}{4}$

(iv)

$\frac{-2}{5} - \frac{-3}{10} - \frac{-4}{7}$

Taking *the* $L.C.M.$ of the denominators :

$\frac{-28}{70} - \frac{-21}{70} - \frac{-40}{70}$

$= \frac{(-28)-(-21)-(-40)}{70}$

$= \frac{-28+21+40}{70}$

$= \frac{33}{70}$

$\left(\mathbf{v}\right)$

$\frac{5}{6}+\frac{-2}{5}-\frac{-2}{15}$

Taking *the* $L.C.M.$ of the denominators :

$\frac{25}{30}+\frac{-12}{30}-\frac{-4}{30}$

$=\frac{25+(-12)-(-4)}{30}$

$=\frac{25-12+4}{30}$

$=\frac{17}{30}$

$\left(\mathbf{vi}\right)$

$\frac{3}{8}-\frac{-2}{9}+\frac{-5}{36}$

Taking *the* $L.C.M.$ of the denominators :

$\frac{27}{72}-\frac{-16}{72}+\frac{-10}{72}$

$=\frac{27-(-16)+(-10)}{72}$

$=\frac{27+16-10}{72}$

$=\frac{33}{72}$

$=\frac{11}{24}$

********** END **********