Exercise 4C

Q1

Answer :

(i)

$$\frac{12}{7}+\frac{3}{7}=\frac{12+3}{7}=\frac{15}{7}$$

(ii)

$$\frac{-2}{5}+\frac{1}{5}=\frac{-2+1}{5}=\frac{-1}{5}$$

(iii)

$$\frac{3}{-8}\times\frac{-1}{-1}=\frac{-3}{8}$$

$$\frac{-3}{8}+\frac{1}{8}=\frac{-3+1}{8}=\frac{-2}{8}$$

(iv)

$$\frac{7}{-11}\times\frac{-1}{-1}=\frac{-7}{11}$$

$$\frac{-5}{11}+\frac{-7}{11}=\frac{-5+(-7)}{11}=\frac{-5-7}{11}=\frac{-12}{11}$$

(v)

$$\frac{-11}{-13}\times\frac{-1}{-1}=\frac{11}{13}$$

$$=\frac{-9}{13}+\frac{11}{13}=\frac{-9+11}{13}=\frac{2}{13}$$

(vi)

$\frac{-2}{9} + \frac{-5}{9} = \frac{-2-5}{9} = \frac{-7}{9}$

(vii)

$\frac{(-17)}{9} + \frac{(-11)}{9} = \frac{-17-11}{9} = \frac{-28}{9}$

(viii)

$\frac{5}{-7} \times \frac{-1}{-1} = \frac{-5}{7}$

$\frac{-3}{7} + \frac{(-5)}{7} = \frac{-3-5}{7} = \frac{-8}{7}$

Q2

Answer :

(i) $\frac{-2}{5} + \frac{3}{4}$

The denominators of the given rational numbers are 5 and 4.
$L.C.M.$ of 5 and 4 is 20.

$\frac{-2}{5} = \frac{(-2)\times 4}{5\times 4} = \frac{-8}{20}$

$\frac{3}{4} = \frac{3\times 5}{4\times 5} = \frac{15}{20}$

Now, $\frac{(-8)}{20} + \frac{15}{20} = \frac{-8+15}{20} = \frac{7}{20}$

(ii) $\frac{-5}{9} + \frac{2}{3}$

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