Exercise 4C

The denominators of the given rational numbers are 9 and 3.

3	9,3
3	3,1
	1,1

L.C.M. of 9 and 3 is 9.

$\frac{-5}{9} = \frac{(-5)\times 1}{9\times 1} = \frac{-5}{9}$

$\frac{2}{3} = \frac{2\times 3}{3\times 3} = \frac{6}{9}$

Now, $\frac{(-5)}{9} + \frac{6}{9}$

$= \frac{-5+6}{9}$

$= \frac{1}{9}$

(iii) $-4 + \frac{1}{2}$

The denominators of the given rational numbers are 1 and 2.

L.C.M. of 1 and 2 is 2.

$\frac{-4}{1} = \frac{(-4)\times 2}{1\times 2} = \frac{-8}{2}$

$\frac{1}{2} = \frac{1\times 1}{2\times 1} = \frac{1}{2}$

Now, $\frac{(-8)}{2} + \frac{1}{2}$

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

$= \frac{-7}{2}$

(iv)

$\frac{-7}{27}+\frac{5}{18}$

The denominators of the given rational numbers are 27 and 18.

3	27,18
3	9,6
3	3,2
2	1,2
	1,1

L.C.M. of 27 and 18 is 54.

$\frac{-7}{27}=\frac{(-7)\times 2}{27\times 2}=\frac{-14}{54}$

$\frac{5}{18}=\frac{5\times 3}{18\times 3}=\frac{15}{54}$

Now, $\frac{(-14)}{54}+\frac{15}{54}=\frac{-14+15}{54}$

$=\frac{1}{54}$

(v) $\frac{-5}{36}+\left(\frac{-7}{12}\right)$

3	36,12
2	12,4
2	6,2
3	3,1
	1,1

The denominators of the given rational numbers are 36 and 12.

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