



Exercise 4B

Q6

Answer :

$$(i) \frac{-2}{5}, \frac{7}{-10}, \frac{-11}{15}, \frac{19}{-30}$$

First, we need to convert each negative denominator into positive.

$$\frac{-2}{5}, \frac{7 \times -1}{-10 \times -1}, \frac{-11}{15}, \frac{19 \times -1}{-30 \times -1}$$

$$\frac{-2}{5}, \frac{-7}{10}, \frac{-11}{15}, \frac{-19}{30}$$

5	5, 10, 15, 30
2	1, 2, 3, 6
3	1, 1, 3, 3
	1, 1, 1, 1

L. C. M. of 5, 10, 15 and 30 is 30.

$$\frac{-2 \times 6}{5 \times 6} = \frac{-12}{30},$$

$$\frac{-7 \times 3}{10 \times 3} = \frac{-21}{30},$$

$$\frac{-11 \times 2}{15 \times 2} = \frac{-22}{30},$$

$$\frac{-19 \times 1}{30 \times 1} = \frac{-19}{30},$$

$$\text{Correct order: } \frac{-2}{5} > \frac{19}{-30} > \frac{7}{-10} > \frac{-11}{15}$$

$$(ii) -2, \frac{-13}{6}, \frac{8}{-3}, \frac{1}{3}$$

First, we need to convert each negative denominator into positive.

$$-2, \frac{-13}{6}, \frac{8 \times -1}{-3 \times -1}, \frac{1}{3}$$

$$-2, \frac{-13}{6}, \frac{-8}{3}, \frac{1}{3}$$

3	1,6,3,3
2	1,2,1,1
	1,1,1,1

L. C. M. of 6, 3 and 3 is 6.

$$\frac{-2 \times 6}{1 \times 6} = \frac{-12}{6},$$

$$\frac{-13 \times 1}{6 \times 1} = \frac{-13}{6},$$

$$\frac{-8 \times 2}{3 \times 2} = \frac{-16}{6},$$

$$\frac{1 \times 2}{3 \times 2} = \frac{2}{6},$$

Correct order: $\frac{1}{3} > -2 > \frac{-13}{6} > \frac{-8}{3}$

$$(iii) \frac{-4}{9}, \frac{5}{-12}, \frac{-7}{18}, \frac{2}{-3}$$

First, we need to convert each negative denominator into positive.

$$\frac{-4}{9}, \frac{5 \times -1}{-12 \times -1}, \frac{-7}{18}, \frac{2 \times -1}{-3 \times -1}$$

$$\frac{-4}{9}, \frac{-5}{12}, \frac{-7}{18}, \frac{-2}{3}$$

3	9,12,18,3
3	3,4,6,1
2	1,4,2,1
2	1,2,1,1
	1,1,1,1

L. C. M. of 9, 12, 18 and 3 is 36.

$$\frac{-4 \times 4}{9 \times 4} = \frac{-16}{36},$$

$$\frac{-5 \times 3}{12 \times 3} = \frac{-15}{36},$$

$$\frac{-7 \times 2}{18 \times 2} = \frac{-14}{36},$$

$$\frac{-2 \times 12}{3 \times 12} = \frac{-24}{36}$$

***** END *****