



Exercise 4B

(iv)

$$\frac{-7}{9}, \frac{-5}{8}$$

L. C. M. of 9 and 8 is 72.

$$\frac{-7 \times 8}{9 \times 8} = \frac{-56}{72}$$

$$\frac{-5 \times 9}{8 \times 9} = \frac{-45}{72}$$

$$-56 < -45$$

$$\frac{-7}{9} < \frac{-5}{8}$$

3	9,8
3	3,8
2	1,8
2	1,4
2	1,2
	1,1

$$(v) \frac{4}{-5}, \frac{-7}{8}$$

We will convert each negative denominator into positive.

$$\frac{4 \times -1}{-5 \times -1} = \frac{-4}{5}$$

L. C. M. of 5 and 8 is 40.

$$\frac{-4 \times 8}{5 \times 8} = \frac{-32}{40}$$

$$\frac{-7 \times 5}{8 \times 5} = \frac{-35}{40}$$

$$-32 > -35$$

$$\frac{-4}{5} > \frac{-7}{8}$$

2	5,8
2	5,4
2	5,2
5	5,1
	1,1

$$(vi) \frac{9}{-13}, \frac{7}{-12}$$

We will convert each negative denominator into positive.

$$\frac{9 \times -1}{-13 \times -1} = \frac{-9}{13}$$

$$\frac{7 \times -1}{-12 \times -1} = \frac{-7}{12}$$

L. C. M. of 13 and 12 is 156.

$$\frac{-9 \times 12}{13 \times (-12)} = \frac{-108}{156}$$

$$\frac{-7 \times 13}{(-12) \times 13} = \frac{-91}{156}$$

$$-108 < -91$$

$$\frac{9}{-13} < \frac{7}{-12}$$

Q4

Answer :

$$(i) \frac{-3}{7} > \frac{-6}{13}$$

L. C. M. of 7 and 13 is 91.

$$\frac{-3 \times 13}{7 \times 13} = \frac{-39}{91}$$

$$\frac{-6 \times 7}{13 \times 7} = \frac{-42}{91}$$

$$\frac{-39}{91} > \frac{-42}{91}$$

$$(ii) \frac{5}{-13} = \frac{-35}{91}$$

L. C. M. of 13 and 91 is 91.

$$\frac{5 \times (-7)}{-13 \times (-7)} = \frac{-35}{91}$$

$$(iii) -2 > \frac{-13}{5}$$

L. C. M of 1 and 5 is 5.

$$\frac{-2 \times 5}{1 \times 5} = \frac{-10}{5}$$

$$\frac{-13 \times 1}{5 \times 1} = \frac{-13}{5}$$

$$\frac{-10}{5} > \frac{-13}{5}$$

13	13,91
7	1,7
	1,1

*****END*****