



## Exercise 4B

Q2

Answer :

(i)  $\frac{5}{6}$ . This is because 0 can be written as  $\frac{0}{6}$  and  $\frac{0}{6} < \frac{5}{6}$ .

(ii)  $-\frac{3}{5} < 0$ . This is because 0 can be written as  $\frac{0}{5}$  and  $-3 < 0$ .

(iii)  $\frac{5}{8} > \frac{3}{8}$ . This is because  $5 > 3$ .

(iv)  $\frac{7}{9} > \frac{5}{9}$ . This is because  $7 > 5$ .

(v)  $-\frac{6}{11} < -\frac{5}{11}$ . This is because  $-6 < -5$ .

(vi)  $-\frac{15}{4} > -\frac{17}{4}, -15 > -17$

Q3

Answer :

(i)  $\frac{5}{9}, -\frac{3}{8}$

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

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

$$\frac{5 \times 8}{9 \times 8} = \frac{40}{72}$$

$$\frac{3 \times 9}{8 \times 9} = \frac{27}{72}$$

$$27 < 40$$

$$-\frac{3}{8} < \frac{5}{9}$$

So,  $\frac{5}{9}$  is greater.

(ii)

$$\frac{4}{-3}, -\frac{8}{7}$$

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

We will convert each negative denominator into positive.

$$\frac{4 \times -1}{-3 \times -1} = \frac{-4}{3}$$

L. C. M. of 3 and 7 is 21.

$$\frac{-4 \times (7)}{(3) \times (7)} = \frac{-28}{21}$$

$$\frac{(-8) \times 3}{7 \times 3} = \frac{-24}{21}$$

$$(-24) > (-28)$$

$$\frac{-8}{7} > \frac{4}{(-3)}$$

So,  $\frac{-8}{7}$  is greater.

(iii)

$$\frac{-12}{5}, -3$$

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

$$\frac{-12 \times 1}{5 \times 1} = \frac{-12}{5}$$

$$\frac{-3 \times 5}{1 \times 5} = \frac{-15}{5}$$

$$-12 > -15$$

$$\frac{-12}{5} > -3$$

$\frac{-12}{5}$  is greater.

\*\*\*\*\* END \*\*\*\*\*