



Exercise 2A

Solution 01

Answer :

We have the following:

(i) 58 and 712

By cross multiplication, we get:

$$5 \times 12 = 60 \text{ and } 7 \times 8 = 56$$

However, $60 > 56$

$$\therefore 58 > 712$$

(ii) 59 and 1115

By cross multiplication, we get:

$$5 \times 15 = 75 \text{ and } 9 \times 11 = 99$$

However, $75 < 99$

$$\therefore 59 < 1115$$

(iii) 1112 and 1516

By cross multiplication, we get:

$$11 \times 16 = 176 \text{ and } 12 \times 15 = 180$$

However, $176 < 180$

$$\therefore 1112 < 1516$$

Solution 02

Answer :

(i) The given fractions are $\frac{3}{4}$, $\frac{5}{6}$, $\frac{7}{9}$ and $\frac{11}{12}$.

LCM of 4, 6, 9 and 12 = 36

Now, let us change each of the given fractions into an equivalent fraction with 36 as its denominator.

$$\frac{3}{4} = \frac{3 \times 9}{4 \times 9} = \frac{27}{36}$$

$$\frac{5}{6} = \frac{5 \times 6}{6 \times 6} = \frac{30}{36}$$

$$\frac{7}{9} = \frac{7 \times 4}{9 \times 4} = \frac{28}{36}$$

$$\frac{11}{12} = \frac{11 \times 3}{12 \times 3} = \frac{33}{36}$$

Clearly, $\frac{27}{36} < \frac{28}{36} < \frac{30}{36} < \frac{33}{36}$

Hence, $\frac{3}{4} < \frac{7}{9} < \frac{5}{6} < \frac{11}{12}$

\therefore The given fractions in ascending order are $\frac{3}{4}$, $\frac{7}{9}$, $\frac{5}{6}$ and $\frac{11}{12}$.

(ii) The given fractions are: $\frac{4}{5}$, $\frac{7}{10}$, $\frac{11}{15}$ and $\frac{17}{20}$.

LCM of 5, 10, 15 and 20 = 60

Now, let us change each of the given fractions into an equivalent fraction with 60 as its denominator.

$$\frac{4}{5} = \frac{4 \times 12}{5 \times 12} = \frac{48}{60}$$

*****END*****