Fractions Ex 2.1 Q3

Answer :

(i)

LCM of the denominators 5, 10, 15 and 20 is 60.

Now, convert all fractions to their equivalent fractions with denominator 60.

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

$\frac{7}{10} = \frac{7}{10} \times \frac{6}{6} = \frac{42}{60}$

$\frac{11}{15} = \frac{11}{15} \times \frac{4}{4} = \frac{44}{60}$

$\frac{17}{20} = \frac{17}{20} \times \frac{3}{3} = \frac{51}{60}$

We know :

$51 > 48 > 44 > 42$

$\Rightarrow \frac{51}{60} > \frac{48}{60} > \frac{44}{60} > \frac{42}{60}$

$\Rightarrow \frac{17}{20} > \frac{4}{5} > \frac{11}{15} > \frac{7}{10}$

(ii)

LCM of the denominators 7, 35, 14 and 28 is 140.

Now, convert all fractions to their equivalent fractions with denominator 140.

$\frac{2}{7} = \frac{2}{7} \times \frac{20}{20} = \frac{40}{140}$

$\frac{11}{35} = \frac{11}{35} \times \frac{4}{4} = \frac{44}{140}$

$\frac{9}{14} = \frac{9}{14} \times \frac{10}{10} = \frac{90}{140}$

$\frac{13}{28} = \frac{13}{28} \times \frac{5}{5} = \frac{65}{140}$

We know :

$90 > 65 > 44 > 40$

$\Rightarrow \frac{90}{140} > \frac{65}{140} > \frac{44}{140} > \frac{40}{140}$

$\Rightarrow \frac{9}{14} > \frac{13}{28} > \frac{11}{35} > \frac{2}{7}$

Fractions Ex 2.1 Q4

Answer :

Five equivalent fractions of $\frac{3}{5}$ are:

$$\text{(i)}\ \frac{3}{5} = \frac{3}{5} \times \frac{2}{2}$$
$$\Rightarrow \frac{3}{5} = \frac{6}{10}$$
$$\text{(ii)}\ \frac{3}{5} = \frac{3}{5} \times \frac{3}{3}$$
$$\Rightarrow \frac{3}{5} = \frac{9}{15}$$
$$\text{(iii)}\ \frac{3}{5} = \frac{3}{5} \times \frac{4}{4}$$
$$\Rightarrow \frac{3}{5} = \frac{12}{20}$$
$$\text{(iv)}\ \frac{3}{5} = \frac{3}{5} \times \frac{5}{5}$$
$$\Rightarrow \frac{3}{5} = \frac{15}{25}$$
$$\text{(v)}\ \frac{3}{5} = \frac{3}{5} \times \frac{6}{6}$$
$$\Rightarrow \frac{3}{5} = \frac{18}{30}$$

********** END **********