

Fractions Ex 2.1 Q3

Answer:

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

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

$$\begin{array}{l} 51 > 48 > 44 > 42 \\ \Rightarrow \frac{51}{60} > \frac{48}{60} > \frac{44}{60} > \frac{4}{60} \\ \Rightarrow \frac{17}{20} > \frac{4}{5} > \frac{11}{15} > \frac{7}{10} \end{array}$$

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

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

$$\begin{array}{c} 2 = \frac{2}{7} \times \frac{20}{20} = \frac{40}{140} \\ \frac{11}{35} = \frac{11}{35} \times \frac{4}{4} = \frac{44}{140} \\ \frac{9}{14} = \frac{9}{14} \times \frac{10}{10} = \frac{90}{140} \\ \frac{13}{28} = \frac{13}{28} \times \frac{5}{5} = \frac{65}{140} \\ \text{We know:} \\ 90 > 65 > 44 > 40 \end{array}$$

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:

(i)
$$\frac{3}{5} = \frac{3}{5} \times \frac{2}{2}$$

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