Fractions Ex 6.7 Q8

Answer :

When numerators are the same and denominators are different, then the fraction with greater denominator has a smaller value.

When denominators are the same and numerators are different, then the fraction with greater numerator has a larger value.

(i) $\frac{8}{5} > \frac{8}{9} > \frac{8}{13} > \frac{8}{17}$

(ii) $\text{LCM of } 9, 12, 3 \text{ and } 15 \text{ is } 180.$

$\frac{5}{9} \times \frac{20}{20} = \frac{100}{180}$

$\frac{3}{12} \times \frac{15}{15} = \frac{45}{180}$

$\frac{1}{3} \times \frac{60}{60} = \frac{60}{180}$

$\frac{4}{15} \times \frac{12}{12} = \frac{48}{180}$

$\frac{5}{9} > \frac{1}{3} > \frac{4}{15} > \frac{3}{12}$

(iii) $\frac{9}{14} > \frac{13}{28} > \frac{11}{35} > \frac{2}{7}$

Fractions Ex 6.7 Q9

Answer :

Two fractions are equal when:

Numerator of the first fraction × Denominator of the second fraction = Numerator of the second fraction × Denominator of the first fraction

(i)

$5 \times 5 = 25$

$4 \times 9 = 36$

So,

$5 \times 5 \neq 4 \times 9$

$\frac{5}{9} \text{ is not equal to } \frac{4}{5}.$

(ii)

$9 \times 9 = 81$

$5 \times 16 = 80$

So,

$9 \times 9 \neq 5 \times 16$

$\frac{9}{16} \text{ is not equal to } \frac{5}{9}.$

(iii)

$4 \times 20 = 80$

$16 \times 5 = 80$

So,

$4 \times 20 = 16 \times 5$

$\frac{4}{5}$ is equal to $\frac{16}{20}$.

(iv)

$1 \times 30 = 30$

$4 \times 15 = 60$

So,

$1 \times 30 \neq 4 \times 15$

$\frac{1}{15}$ is not equal to $\frac{4}{30}$.

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