Fractions Ex 6.7 Q7

Answer :

(i) $\frac{2}{9}, \frac{7}{9}, \frac{3}{9}, \frac{4}{9}, \frac{1}{9}, \frac{6}{9}, \frac{5}{9}$

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

(ii) $\frac{7}{8}, \frac{7}{25}, \frac{7}{11}, \frac{7}{18}, \frac{7}{10}$

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

$\frac{7}{25} < \frac{7}{18} < \frac{7}{11} < \frac{7}{10} < \frac{7}{8}$

(iii) $\frac{37}{47}, \frac{37}{50}, \frac{37}{100}, \frac{37}{1000}, \frac{37}{85}, \frac{37}{41}$

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

$\frac{37}{1000} < \frac{37}{100} < \frac{37}{85} < \frac{37}{50} < \frac{37}{47} < \frac{37}{41}$

(iv) $\frac{3}{5}, \frac{1}{5}, \frac{4}{5}, \frac{2}{5}$

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

$\frac{1}{5} < \frac{2}{5} < \frac{3}{5} < \frac{4}{5}$

(v)

LCM of 2, 4 and 5 is 20.

$\frac{2}{5} = \frac{2}{5} \times \frac{4}{4} = \frac{8}{20}$

$\frac{3}{4} = \frac{3}{4} \times \frac{5}{5} = \frac{15}{20}$

$\frac{1}{2} = \frac{1}{2} \times \frac{10}{10} = \frac{10}{20}$

$\frac{3}{5} = \frac{3}{5} \times \frac{4}{4} = \frac{12}{20}$

$\frac{2}{5} < \frac{1}{2} < \frac{3}{5} < \frac{3}{4}$

(vi)

$\frac{3}{8}, \frac{3}{12}, \frac{3}{6}, \frac{3}{4}$

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

$\frac{3}{12} < \frac{3}{8} < \frac{3}{6} < \frac{3}{4}$

(vii)

$\frac{4:2}{6:2} = \frac{2}{3}$ (Dividing the numerator & denominator by the HCF of 4 & 6)

$\frac{6}{12} = \frac{1}{2}$ (Dividing the numerator & denominator by the HCF of 6 & 12)

LCM of 2, 8, 3 and 16 is 48.

$\frac{4}{6} = \frac{2}{3} \times \frac{16}{16} = \frac{32}{48}$

$\frac{6}{12} = \frac{1}{2} \times \frac{24}{24} = \frac{24}{48}$

$\frac{3}{8} = \frac{3}{8} \times \frac{6}{6} = \frac{18}{48}$

$\frac{5}{16} = \frac{5}{16} \times \frac{3}{3} = \frac{15}{48}$

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

$\frac{5}{16} < \frac{3}{8} < \frac{6}{12} < \frac{4}{6}$

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