Fractions Ex 6.9 Q1

Answer :

(i)

$\frac{3}{4}+\frac{5}{6}$

LCM of 4 & 6 is 12, so we will convert each fraction into an equivalent fraction with denominator 12.

$=\frac{3\times3}{4\times3}+\frac{5\times2}{6\times2}$

$=\frac{9}{12}+\frac{10}{12}$

$=\frac{9+10}{12}=\frac{19}{12}$

(ii)

$\frac{7}{10}+\frac{2}{15}$

LCM of 10 & 15 is 30, so we will convert each fraction into an equivalent fraction with denominator 30.

$=\frac{7\times3}{10\times3}+\frac{2\times2}{15\times2}=\frac{21}{30}+\frac{4}{30}$

$=\frac{21+4}{30}$

$=\frac{25}{30}$

(iii)

$\frac{8}{13}+\frac{2}{3}$

LCM of 13 & 3 is 39, so we convert each fraction into an equivalent fraction with denominator 39.

$=\frac{8\times3}{13\times3}+\frac{2\times13}{3\times13}=\frac{24}{39}+\frac{26}{39}$

$=\frac{24+26}{39}$

$=\frac{50}{39}$

(iv)

$\frac{4}{5}+\frac{7}{15}$

LCM of 5 & 15 is 15, so we will convert each fraction into an equaivalent fraction with denominator 15.

$\frac{4\times3}{5\times3}+\frac{7\times1}{15\times1}=\frac{12}{15}+\frac{7}{15}$

$=\frac{12+7}{15}=\frac{19}{15}$

Fractions Ex 6.9 Q2

Answer :

(i)

$\frac{19}{21} - \frac{2}{7}$

LCM of 21 & 7 is 21, so we convert each fraction into an equivalent fraction with denominator 21.

$= \frac{19\times1}{21\times1} - \frac{2\times3}{7\times3} = \frac{19}{21} - \frac{6}{21}$

$= \frac{19-6}{21} = \frac{13}{21}$

(ii)

$\frac{18}{20} - \frac{21}{25}$

LCM of 20 & 25 is 100, so we convert each fraction into an equivalent fraction with denominator 100.

$= \frac{18\times5}{20\times5} - \frac{21\times4}{25\times4} = \frac{90}{100} - \frac{84}{100}$

$= \frac{6}{100}$

(iii)

$\frac{2}{1} - \frac{7}{16}$

LCM of 1 & 16 is 16 ,so we convert each fraction into an equivalent fraction with denominator 16.

$= \frac{2\times16}{1\times16} - \frac{7\times1}{16\times1} = \frac{32}{16} - \frac{7}{16}$

$= \frac{32-7}{16}$

$= \frac{25}{16}$

(iv)

$2\frac{1}{5} - \frac{4}{15} = \frac{(5\times2)+1}{5} - \frac{4}{15}$

$= \frac{11}{5} - \frac{4}{15}$

LCM of 5 & 15 is 15,so we convert each fraction into an equivalent fraction with denominator 15.

$\frac{11\times3}{5\times3} - \frac{4\times1}{15\times1}$

$\frac{33}{15} - \frac{4}{15} = \frac{33-4}{15}$

$= \frac{29}{15}$

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