



Fractions Ex 6.9 Q3

Answer :

$$\begin{aligned} \text{(i)} \quad & \frac{13}{24} - \frac{7}{16} \\ &= \frac{13 \times 2}{24 \times 2} - \frac{7 \times 3}{16 \times 3} \quad \left(\text{Because LCM of 24 \& 16 is 48} \right) \\ &= \frac{26}{48} - \frac{21}{48} \\ &= \frac{26-21}{48} = \frac{5}{48} \end{aligned}$$

$$\begin{aligned} \text{(ii)} \quad & \frac{5}{18} - \frac{4}{15} \\ &= \frac{5 \times 5}{18 \times 5} - \frac{4 \times 6}{15 \times 6} \\ &= \frac{25}{90} - \frac{24}{90} \quad \left(\text{Because LCM of 18 \& 15 is 90} \right) \\ &= \frac{25-24}{90} = \frac{1}{90} \end{aligned}$$

$$\begin{aligned} \text{(iii)} \quad & \frac{3}{4} - \frac{1}{12} \\ &= \frac{3 \times 3}{4 \times 3} - \frac{1 \times 1}{12 \times 1} \quad \left(\text{Because LCM of 4 \& 12 is 12} \right) \\ &= \frac{9}{12} - \frac{1}{12} \\ &= \frac{9-1}{12} = \frac{8}{12} \end{aligned}$$

$$\begin{aligned} \text{(iv)} \quad & \frac{6}{7} - \frac{2}{3} \\ &= \frac{6 \times 3}{7 \times 3} - \frac{2 \times 7}{3 \times 7} \quad \left(\text{Because LCM of 7 \& 3 is 21} \right) \\ &= \frac{18}{21} - \frac{14}{21} \\ &= \frac{18-14}{21} \\ &= \frac{4}{21} \end{aligned}$$

Fractions Ex 6.9 Q4

Answer :

$$\begin{aligned} \text{(i)} \quad & \frac{8}{3} - \frac{5}{9} \\ &= \frac{8 \times 3}{3 \times 3} - \frac{5 \times 1}{9 \times 1} \quad \left(\text{Because LCM of 3 \& 9 is 9} \right) \\ &= \frac{24}{9} - \frac{5}{9} = \frac{24-5}{9} \\ &= \frac{19}{9} \end{aligned}$$

$$\begin{aligned} \text{(ii)} \quad & 4\frac{2}{5} - 2\frac{1}{5} = \frac{(5 \times 4) + 2}{5} - \frac{(5 \times 2) + 1}{5} \\ &= \frac{22}{5} - \frac{11}{5} = \frac{22-11}{5} \\ &= \frac{11}{5} \end{aligned}$$

$$\begin{aligned} \text{(iii)} \quad & 5\frac{6}{7} - 2\frac{2}{3} = \frac{(7 \times 5) + 6}{7} - \frac{(3 \times 2) + 2}{3} \\ &= \frac{41}{7} - \frac{8}{3} \\ & \frac{41 \times 3}{7 \times 3} - \frac{8 \times 7}{3 \times 7} \quad \left(\text{Because LCM of 7 \& 3 is 21} \right) \\ &= \frac{123}{21} - \frac{56}{21} = \frac{123-56}{21} \\ &= \frac{67}{21} \end{aligned}$$

$$\begin{aligned} \text{(iv)} \quad & 4\frac{3}{4} - 2\frac{1}{6} = \frac{(4 \times 4) + 3}{4} - \frac{(6 \times 2) + 1}{6} \\ &= \frac{19}{4} - \frac{13}{6} \\ & \frac{19 \times 3}{4 \times 3} - \frac{13 \times 2}{6 \times 2} \quad \left(\text{Because LCM of 4 \& 6 is 12} \right) \\ &= \frac{57}{12} - \frac{26}{12} \\ &= \frac{57-26}{12} \\ &= \frac{31}{12} \end{aligned}$$

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