

CW
3.9.21

Exercise - 9(B)

1) Add.

a. $\frac{5}{6} + \frac{7}{12}$

Ans: $\frac{5 \times 2 + 7 \times 1}{12} = \frac{10 + 7}{12} = \frac{17}{12} = 1 \frac{5}{12}$

b. $\frac{4}{5} + \frac{3}{10} + \frac{1}{2}$

Ans: $\frac{4 \times 2 + 3 \times 1 + 1 \times 5}{10} = \frac{8 + 3 + 5}{10} = \frac{16}{10} = 1 \frac{6}{10}$

c. $\frac{5}{6} + \frac{7}{12} + \frac{5}{24}$

Ans: $\frac{5 \times 4 + 7 \times 2 + 5 \times 1}{24} = \frac{20 + 14 + 5}{24} = \frac{39}{24} = 1 \frac{15}{24}$

d. $\frac{2}{7} + \frac{3}{5} + \frac{1}{2}$

Ans: $\frac{2 \times 10 + 3 \times 14 + 1 \times 35}{70} = \frac{20 + 42 + 35}{70} = \frac{97}{70} = 1 \frac{27}{70}$

$$e. \frac{5}{16} + \frac{7}{10} + \frac{2}{5}$$

$$\text{An: } \frac{5 \times 5 + 7 \times 8 + 2 \times 16}{80} = \frac{25 + 56 + 32}{80} = \frac{113}{80} = 1 \frac{43}{80}$$

$$f. \frac{16}{25} + \frac{9}{10} + \frac{3}{8}$$

$$\text{An: } \frac{16 \times 8 + 9 \times 20 + 3 \times 25}{200} = \frac{128 + 180 + 75}{200} = \frac{383}{200} = 1 \frac{183}{200}$$

$$g. 1 \frac{1}{4} + 3 \frac{3}{8}$$

$$\text{An: } 3 + 1 = 4$$

$$\frac{1 \times 2 + 3 \times 1}{8} = \frac{2 + 3}{8} = \frac{5}{8} = 1 \frac{5}{8}$$

$$h. 3 \frac{1}{3} + 7 \frac{5}{6} + 5 \frac{1}{2}$$

$$\text{An: } 7 * + 5 * + 3 = 15$$

$$\frac{1 \times 2 + 5 \times 1 + 1 \times 3}{6} = \frac{2 + 5 + 3}{6} = \frac{10}{6} = 1 \frac{4}{6}$$

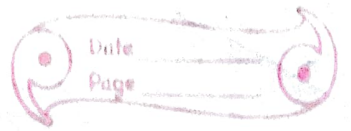
i. $6 \frac{5}{14} + 20 + 7 \frac{3}{7} + 8 \frac{7}{12}$

Ans: $20 + 8 + 6 + 7 = 41$

$$\frac{5 \times 6 + 3 \times 12 + 7 \times 7}{84} = \frac{30 + 36 + 49}{84} = \frac{115}{84} = 1 \frac{31}{84}$$

HW
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Exercise - 9(B)



2) → Subtract the following fractions:

a. $\frac{8}{15} - \frac{4}{9}$

Ans: $\frac{8 \times 3 - 4 \times 5}{45} = \frac{24 - 20}{45} = \frac{4}{45}$

b. $\frac{11}{13} - \frac{5}{7}$

Ans: $\frac{11 \times 7 - 5 \times 13}{91} = \frac{77 - 65}{91} = \frac{12}{91}$

c. $\frac{13}{17} - \frac{7}{10}$

Ans: $\frac{13 \times 10 - 7 \times 17}{170} = \frac{130 - 119}{170} = \frac{11}{170}$

d. $\frac{15}{19} - \frac{9}{13}$

Ans: $\frac{15 \times 13 - 9 \times 19}{247} = \frac{195 - 171}{247} = \frac{24}{247}$

$$e. \quad 7 \frac{4}{9} - 4 \frac{1}{15}$$

$$\text{Ans: } \frac{7 \times 5 - 4 \times 3}{45} = \frac{35 - 12}{45} = \frac{23}{45}$$

$$f. \quad 16 \frac{7}{27} - 7 \frac{1}{18}$$

$$\text{Ans: } \frac{16 \times 2 - 7 \times 3}{54} = \frac{32 - 21}{54} = \frac{11}{54}$$

$$g. \quad 13 \frac{7}{9} - 8 \frac{5}{12}$$

$$\text{Ans: } 13 - 8 = 5$$

$$\frac{7 \times 4 - 5 \times 3}{36} = \frac{28 - 15}{36} = \frac{13}{36} = 5 \frac{13}{36}$$

$$h. \quad 6 \frac{3}{17} - 4$$

$$\text{Ans: } 6 - 4 = 2 = 2 \frac{3}{17}$$

i. $30 \frac{3}{4} - 25$

Ans: $30 - 25 = 5 = 5 \frac{3}{4}$

j. $20 \frac{7}{12} - 15$

Ans: $20 - 15 = 5 = 5 \frac{7}{12}$

k. $12 \frac{7}{8} - 11 \frac{1}{2}$

Ans: $12 - 11 = 1$

$\frac{7 \times 1 + 1 \times 4}{8} = \frac{7 + 4}{8} = \frac{11}{8} = 1 \frac{3}{8}$

l) $100 \frac{1}{4} - 99$

Ans: $100 - 99 = 1 = 1 \frac{1}{4}$