# Ch-9-Fractions

1. a) Unlike fractions.

b) Mixed number

c) Improper fraction.

d) 17

e) 1

f) 5

g) 9 halves

h) Proper fraction

i) Like fraction

j) Proper fraction

2. a) $\frac{3}{5}$ of 25

$= \frac{3}{\cancel{5}_{1}} \times \cancel{25}^{5} = 15$

b) $\frac{19}{2}$ as mixed number

Ans- $\frac{19}{2} = 9\frac{1}{2}$

$2\overline{)19}$ → 9, $-18$, 1

c) $6\frac{2}{9}$ a $= \frac{56}{9}$

d) $\frac{3}{4}$ ⓘ $\frac{2}{5}$

e) $\frac{18}{42} = \frac{3}{7}$

3.a) $2\frac{5}{13} + \frac{7}{13} + 3\frac{9}{26}$

$= \frac{31}{13} + \frac{7}{13} + \frac{87}{26}$

$\frac{31\times2 + 7\times2 + 87}{26}$

$= \frac{62 + 14 + 87}{26}$

$= \frac{163}{26} = 6\frac{7}{26}$

13 | 13, 13, 26 → 1, 1, 2

1
62
+14
87
163

$26\overline{)163}$ → 6, $-156$, 7

Subtract

b) $5\frac{7}{9}$ from $9\frac{5}{7}$

Ans $5\frac{7}{9} = \frac{52}{9}$

$9\frac{5}{7} = \frac{68}{7}$

$\frac{68}{7} - \frac{52}{9}$

$= \frac{68 \times 9 - 52 \times 7}{63}$

$= \frac{612 - 364}{63} = \frac{248}{63} = 3\frac{59}{63}$

7 | 7, 9
2 | 4, 9
1, 3

63 | 248 (3
-189
59

c) $\frac{2}{5} \times \frac{3}{4_2} \times \frac{1}{2}$

$= \frac{3}{10}$

d) $\frac{3}{5} + \frac{1}{2} - \frac{3}{4}$

$= \left(\frac{3}{5} + \frac{1}{2}\right) - \frac{3}{4}$

$= \left(\frac{3 \times 2 + 1 \times 5}{10}\right) - \frac{3}{4}$

$= \frac{16 + 5}{10} = \frac{11}{10} = 1\frac{1}{10} - \frac{3}{4}$

5 | 5 2
1

10 | 11 (1
-10
1

$$= \frac{11 \times 2 - 3 \times 5}{20}$$

$$= \frac{22 - 15}{20} = \frac{7}{20}$$

2 | 10, 4
5, 2