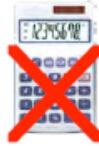


# Fractions



1) Change to a mixed number :-

(a)  $\frac{24}{5}$

(b)  $\frac{42}{8}$

$$\begin{aligned} \text{a) } & \frac{24}{5} \\ & = 4 \frac{4}{5} \end{aligned}$$

because  $24 \div 5 = 4 \text{ r } 4$

$$\begin{aligned} \text{b) } & \frac{42}{8} \\ & = 5 \frac{2}{8} \\ & = 5 \frac{1}{4} \end{aligned}$$

because  $42 \div 8 = 5 \text{ r } 2$

2) Re-write as a top-heavy fraction :- (a)  $4\frac{5}{6}$  (b)  $10\frac{2}{7}$

$$\begin{aligned} \text{a)} \quad & 4\frac{5}{6} \\ & = \frac{29}{6} \quad (6 \times 4 + 5) \end{aligned}$$

$$\begin{aligned} \text{b)} \quad & 10\frac{2}{7} \\ & = \frac{72}{7} \quad (7 \times 10 + 2) \end{aligned}$$

3) Copy and complete :-

(a)  $\frac{3}{7} + \frac{2}{7}$

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

(b)  $\frac{1}{2} + \frac{3}{4}$

$$= \frac{2}{4} + \frac{3}{4}$$

$$= \frac{5}{4}$$

$$\text{OR} = 1\frac{1}{4}$$

(c)  $\frac{5}{6} - \frac{1}{6}$

$$= \frac{4}{6}$$

$$= \frac{2}{3}$$

3)

$$(d) 3\frac{3}{5} + 4\frac{4}{5}$$

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

$$= 8\frac{2}{5}$$

$$\left(\frac{7}{5} = 1\frac{2}{5}\right)$$

$$(e) 5\frac{3}{5} - 2\frac{1}{3}$$

$$= 3\frac{9}{15} - \frac{5}{15}$$

$$= 3\frac{4}{15}$$

$$(f) 4\frac{1}{2} - 1\frac{2}{3}$$

$$= 3\frac{3}{6} - \frac{4}{6}$$

$$= 3 - \frac{1}{6}$$

$$= 2\frac{6}{6} - \frac{1}{6}$$

$$= 2\frac{5}{6}$$

$$4) 8 - 3\frac{4}{9}$$

$$= 7\frac{9}{9} - 3\frac{4}{9}$$

$$= 4\frac{5}{9}$$

**5)a)** Find  $\frac{3}{4}$  of £76

$$76 \div 4 \times 3$$
$$= \text{£} 57$$

$$\begin{array}{r} 19 \\ 4 \overline{) 76} \\ \underline{76} \\ 0 \end{array} \quad \begin{array}{r} 19 \\ \times 3 \\ \hline 57 \\ \hline 2 \end{array}$$

**b)** Calculate  $\text{£}168 \times \frac{2}{3}$

$$168 \div 3 \times 2$$
$$= \text{£} 112$$

$$\begin{array}{r} 56 \\ 3 \overline{) 168} \\ \underline{168} \\ 0 \end{array} \quad \begin{array}{r} 56 \\ \times 2 \\ \hline 112 \\ \hline 1 \end{array}$$

- 6) Before his diet, Tommy weighed  $13\frac{1}{2}$  stones.  
He lost  $2\frac{3}{4}$  stones on his diet.  
What was Tommy's new weight ?



$$\begin{aligned} & 13\frac{1}{2} - 2\frac{3}{4} \\ &= 11\frac{2}{4} - \frac{3}{4} \\ &= 11 - \frac{1}{4} \\ &= 10\frac{4}{4} - \frac{1}{4} \\ &= 10\frac{3}{4} \text{ kg} \end{aligned}$$