

2)  $\begin{array}{|c|} \hline 17 \\ \hline 8:9 \\ m:w \\ \hline \end{array} + \begin{array}{|c|} \hline 17 \\ \hline 12:5 \\ m:w \\ \hline \end{array} = \begin{array}{|c|} \hline m:w \\ \hline 8+12:9+5 \\ 20:14 \\ \hline 10:7 \\ \hline \end{array} \text{Ans}$

4)  $\begin{array}{|c|} \hline x \\ \hline m:w \\ 4:3 \\ \hline \end{array} + \begin{array}{|c|} \hline y \\ \hline m:w \\ 2:3 \\ \hline \end{array} = \begin{array}{|c|} \hline m:w \\ 1:1 \\ \hline \end{array}$

$$\frac{4}{7} = \frac{40}{70} \quad \frac{2}{5} = \frac{28}{70}$$

$$\frac{1}{2} = \frac{35}{70}$$

$$\boxed{7:5}$$

$m:w$  40 28

$$\begin{array}{c} 40 \\ 28 \\ 35 \end{array} : \begin{array}{c} 30 \\ 42 \\ 35 \end{array}$$

$$\boxed{7:5}$$

5)  $A:w$

A  $\rightarrow 2:1$   
 $\boxed{80} : \boxed{40}$   
 B  $\rightarrow 3:2$   
 $\boxed{72} : \boxed{48}$   
 C  $\rightarrow 5:3$   
 $\boxed{75} : \boxed{45}$

D  $\rightarrow \boxed{227:183}$

9)

$$\begin{array}{|c|} \hline 100 \\ \hline M \\ 30\% \\ \hline \end{array} + \begin{array}{|c|} \hline 200 \\ \hline M \\ 75\% \\ \hline \end{array} = \begin{array}{|c|} \hline 300 \\ \hline M \\ 9 = 60\% \\ \hline \end{array}$$

$$\boxed{30} + \boxed{150} = \boxed{180}$$

10)

$$\begin{array}{c} 30\% \quad 50\% \\ \diagdown \quad \diagup \\ 45\% \\ \diagup \quad \diagdown \\ 5 \quad 15 \\ \hline \boxed{1 \quad : \quad 3} \end{array}$$

11)

$$\left(\frac{1}{5}\right) 20\% \quad 37.5\% \left(\frac{3}{8}\right)$$

$$\begin{array}{c} \diagdown \quad \diagup \\ 35\% \\ \diagup \quad \diagdown \\ 2.5 \quad : \quad 15 \\ \hline \boxed{1 \quad : \quad 6} \end{array}$$

12)

$$\begin{array}{l} 1.5 \text{ lit} \longrightarrow 10 \text{ ₹} \\ 60 \text{ lit} \longrightarrow 400 \text{ ₹} \end{array}$$

$$(60+x) \times \frac{16}{3} = 400 + 25$$

$$60+x=75$$

$$\boxed{x=15}$$

$$\boxed{5 \frac{1}{3} = \frac{16}{3}}$$



$$16) \quad \frac{M}{W} = \frac{4x-4}{3x-3+7} = \frac{3}{4}$$

$$\underline{16x} - 16 = \underline{9x} + 12$$

$$\Rightarrow x = 28$$

$$\boxed{x=4}$$

$$\text{Initial Milk} = 4x = \boxed{16} \quad \checkmark$$

$$20) \quad \text{Milk} = 100 \text{ ml}$$

$$\Rightarrow 100 \times \overset{0.8}{\frac{4}{5}} \times \frac{4}{5} \times \frac{4}{5}$$

$$= 64 \times 0.8 = \boxed{51.2}$$