

31)

$$50\% \text{ ————— } 300$$

$$100\% \text{ ————— } 600$$

$$CP = 600$$

$$Pr = 300$$

$$SP = 900$$

$$Disc = 20\% = \frac{1}{5}$$

$$\frac{MP}{SP} = \frac{5}{4} \text{ ————— } \boxed{1125}$$

$$SP = 900$$

32)

Anun

-Swath

Didya

Rahul

$$120$$

$$\frac{25\%}{+30}$$

$$\boxed{150}$$

$$\frac{20\%}{+30}$$

$$\boxed{180}$$

$$\frac{10\%}{+10}$$

$$\frac{198}{11}$$

Swath

$$CP = 150$$

$$SP = 180$$

$$\boxed{Pr = \frac{30}{150} \times 100 = 20\%}$$

$$32) \text{ Disc} = \frac{1}{3}$$

$$Loss = 20\% = \frac{1}{5}$$

$$\frac{MP}{SP} = \frac{3}{2} = \frac{6}{4}$$

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

$$CP = 5 \text{ ————— } \boxed{25}$$

36) $\text{MP} = 2000$



A
 $D_1 = 8\% = 160$

$D_2 = 8\% \text{ of } 1840 = 147.2$

B
 $D_1 = 16\% \text{ of } 2000$

$D = 320$

$D = 160 + 147.2 = 307.2$

Diff

12.8

✓ $\text{CP} = 30$

$\text{SP} = 39$

$P_2 = 9$

$P_0 = \frac{9}{30} \times 100 = 30\%$

38) $\text{Disc} = 11.11\% = \frac{1}{9}$ } $P_0 = 14.28\% = \frac{1}{7}$

$\frac{\text{MP}}{\text{SP}} = \frac{9}{8}$

} $\frac{\text{CP}}{\text{SP}} = \frac{7}{8}$

$\text{CP} = 7$

$\text{MP} = 9$

$\frac{2}{7} \times 100 = 28\frac{4}{7}\%$

43)

Ram

$\frac{\text{CP} - 10}{\text{SP} - 9} = \frac{?}{14000}$

$\text{CP} = \frac{140000}{9}$

Janu

$\frac{\text{CP} - 10}{\text{SP} - 13} = \frac{?}{14000}$

$\text{CP} = \frac{140000}{13}$

$\frac{\text{CP}(R)}{\text{CP}(J)} = \frac{\left(\frac{140000}{9}\right)}{\frac{140000}{13}} = \frac{13}{9}$

$$4 \Rightarrow \begin{array}{l} 5\% \text{ --- } 2 \\ 100\% \text{ --- } \boxed{40 \text{ kg}} \end{array}$$

$$\text{original} = 40 - 2 = \boxed{38}$$

$$\text{Price/kg} = \frac{608}{38} = \frac{32}{2} = \boxed{16}$$

$$50) \begin{array}{l} \text{MP} = 100 \\ \text{Disc} = 20\% \\ \text{CP} = 80 \\ \text{SP} = 104 \end{array} \quad \left. \begin{array}{l} \\ \\ \end{array} \right\} 30\%$$

$$5 \Rightarrow x + y = 750$$

$$22\% \text{ of } x = 8\% \text{ of } y$$

$$\boxed{\frac{x}{y} = \frac{4}{11}} \quad \begin{array}{l} \text{--- } \boxed{200} \\ \text{--- } \boxed{550} \end{array}$$

$$\Rightarrow 8\% \text{ of } 550 = 44 - \text{Loss}$$

$$\text{SP} = 550 - 44 = \boxed{506}$$

$$\begin{array}{cc} 122 & 92 \\ & \diagdown \quad \diagup \\ & 100 \\ & \diagup \quad \diagdown \\ 8 & 22 \\ \hline 14 & 11 \end{array}$$

$$64) \frac{510}{12} = \boxed{42.5}$$

$$CP = 42.5 \times 20 = 850$$

$$Po = 20\% \text{ of } 850 = 170$$

$$SP = \frac{1020}{40} = \boxed{25.5}$$

$$\text{Remaining} = 510 - 30 = \frac{480}{12} = 40$$

69)

$8 \times 270 = 2160$
 $3 = \boxed{810}$
 $5 = \boxed{1350}$

68)

$$CP = \underline{35 \times 2} + \overset{+5}{\underline{40 \times 2}} = 190$$

$$SP = (46 \times 1) + (55 \times 4) = 266$$

$$Po = \frac{36}{190} \times 100 = 40\%$$

$$70) x + y = 100,000$$

$$120\% \text{ of } x = 80\% \text{ of } y$$

$$\boxed{\frac{x}{y} = \frac{2}{3}} \rightarrow \begin{matrix} \boxed{40,000} \\ \boxed{60,000} \end{matrix}$$