

Homework Profit, loss and Discount

1. 4% loss

2. $SP = 18000$

$P\% = 25\%$

$CP = ?$

$$C.P = \frac{100}{125} \times 18000$$

$$CP = 14400$$

$SP = 18000$

$2\% = 25\%$

$CP = ?$

$$CP = \frac{100}{75} \times 18000$$

$$\begin{array}{r} 24000 \\ + 14400 \\ \hline 38400 \end{array}$$

$$= 24000$$

$$\text{Total } SP = 18000 + 18000 = 36000$$

$$\text{Total } CP = 24000 + 14400 = 38400$$

$$\text{Loss} = 38400 - 36000 = 2400$$

$$\text{loss \%} = \frac{2400}{38400} \times 100$$

$$d = 6.25\%$$

3. let the price = x
 $100 + 30 = 130$

$$\Rightarrow 130 - \left(\frac{30}{100} \times 130 \right) = 130 - 39 = 91$$

$$\Rightarrow 100 - 91 = 9$$

$$\Rightarrow d \% = \frac{9}{100} \times 100 = 9\%$$

4. 90 Bags = ₹450 = ₹40500

$$= (45 \times 1.20) \times 30 = 16200$$

$$50 \text{ bags} = 16200 + 8460 = 24660$$

$$450 \times 0.09 \times 90 = 44145$$

$$\text{sell difference} = 44125 - 24660 = ₹19465$$

Rest 40 bags to sell at ₹ 487.125
and value would be 44125 at a
rate of 9% Profit.

$$5. \text{CP} = 20 = \frac{7500}{K} \times 100 = K = 37500$$

$$7500 = 0.9y - 37500$$

$$y = 50000$$