

Solutions by Dev Anoop

$$\textcircled{7} \text{ let CP of 1 pen} = \text{Rs } 1$$

$$\text{CP of 15 pens} = \text{Rs } 15$$

$$\text{CP of 60 pens} = \text{Rs } 60$$

$$\text{SP of 12 pens} = \text{CP of 15 pens} = \text{Rs } 15$$

$$\text{SP of 60 pens} = \frac{15 \times 60}{12}$$

$$= \text{Rs } 75$$

$$\text{gain \%} = \frac{75 - 60}{60} \times 100$$

$$= \frac{15}{60} \times 100$$

$$= 25\%$$

$$\textcircled{8} \text{ let CP of 1 spoon} = \text{Rs } 1$$

$$\text{CP of 15 spoons} = \text{Rs } 15$$

$$\text{CP of 240 spoons} = \text{Rs } 240$$

$$\text{SP of 16 spoons} = \text{CP of 15 spoons} = \text{Rs } 15$$

$$\text{SP of 240 spoons} = \frac{15 \times 240}{16}$$

$$= \text{Rs } 225$$

$$\text{loss \%} = \frac{240 - 225}{240} \times 100$$

$$= \frac{15}{240} \times 100$$

$$= 6\frac{1}{4}\%$$