

Profit, Loss, Discount, Value Added Tax (VAT) Ex 13.1 Q24 **Answer:** 

$$C. P \text{ of } 100 \text{ hens} = \text{Rs. } 8000$$

Cost of one hen = 
$$\frac{8000}{100}$$
 = Rs. 80

C. P of 20 hens = Rs. 
$$\left(80 \times 20\right)$$
 = Rs. 1600

$$\mathrm{Gain}\,\%=5\%$$

$$S.\,P=C.\,P\Big(\frac{100+g\,\mathrm{ain}\,\%}{100}\,\Big)$$

$$S.P = 1600 \times \frac{105}{100} =$$
Rs. 1680

C. P of 80 hens = Rs. 
$$\left(80 \times 80\right)$$
 = Rs. 6400

Gain on 80 hens = S. P of 80 hens - C. P of 80 hens Gain on 100 hens = Gain on 80 hens + Gain on 20 hens

Gain on 100 hens = Rs. 
$$\left(80 + S.P \text{ of } 80 \text{ hens } -6400\right)$$

$$\mbox{Gain} \, \% \mbox{ on } 100 \mbox{ hens} = \frac{\mbox{Gain on } 100 \mbox{ hens}}{\mbox{\it C.P of } 100 \mbox{ hens}} \mbox{ } \times 100 \mbox{}$$

$$20 = \frac{\text{(80+S.P of 80 hens } - 6400)}{\text{8000}} \times 100$$

1600 = 80 + S. P of 80 hens -6400S. P of 80 hens = Rs.  $\left(1600 + 6400 - 80\right)S$ . P of

80 hens = Rs. 7920 Gain on 80 hens = S.P of 80 hens - C.P of 80 hens = Rs

$$.\left(7920-6400\right) = \text{Rs.} \ 1520 \ \text{Gain} \% \ \ \text{on} \ 80 \ \ \text{hens} \ \ = \frac{\text{Gain} \ \ \text{on} \ 80 \ \ \text{hens}}{\textit{C.P. of} \ 80 \ \ \text{hens}} \times 100 = \frac{1520}{6400} \times 100 = \frac$$

. 75% Therefore, To shiba gai ned 23. 75% on 80 hens.

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