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

Answer :

$C.P$ of 100 hens $=$ Rs. 8000

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

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

Gain $\% = 5\%$

$S.P = C.P\left(\frac{100+g\,\text{ain}\,\%}{100}\right)$

$S.P = 1600 \times \frac{105}{100} =$ 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. $\left(80 + S.P \text{ of } 80 \text{ hens } - 6400\right)$

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

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

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

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

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

. 75% Therefore, *Toshiba* gai*ned* 23.75% *on* 80 *hens.*

********** END **********