Profit, Loss, Discount, Value Added Tax (VAT) Ex 13.2 Q20

Answer :

Given,

$Gain\ on\ one\ cycle = \text{Rs. } 360$

$\text{Gain} = 20\%$

$\text{Gain}\,\% = \frac{\text{Gain}}{\text{CP}} \times 100$

$20 = \frac{360}{\text{CP}} \times 100$

$\text{CP} = \text{Rs. } 1800$

$\text{SP} = \frac{100+\text{Gain}\,\%}{100} \times \text{CP}$

$\text{SP} = \frac{120}{100} \times 1800 = \text{Rs. } 2160$

$\text{SP} = \text{Rs. } 2160$

$\text{Discount} = 20\%$

$\text{MP} = \frac{100 \times \text{SP}}{100 - \text{Discount}\,\%}$

$\text{MP} = \frac{100 \times 2160}{80} = \text{Rs. } 2700$

Hence, *the MP of one cycle is* Rs. 2700.

Profit, Loss, Discount, Value Added Tax (VAT) Ex 13.2 Q21

Answer :

Given,

$CP\ \text{of the suit} = \text{Rs. } 1470$

$\text{Gain} = 10\%$

$\text{So, SP} = \text{Rs. } \left(\frac{100+\text{Gain}}{100} \times \text{CP}\right)$

$= \text{Rs. } \left(\frac{100+10}{100} \times 1470\right)$

$= \text{Rs. } 1617$

Now,

$\text{SP} = \text{Rs. } 1617$

$\text{Discount} = 12.5\%$

$\text{So, MP} = \text{Rs. } \left(\frac{100 \times \text{SP}}{100 - \text{Discount}\,\%}\right)$

$= \text{Rs. } \left(\frac{100 \times 1617}{100-12.5}\right) = \text{Rs. } 1848$

Therefore, the marked price of the suit is Rs. 1848.

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