Profit, Loss, Discount, Value Added Tax (VAT) Ex 13.2 Q7

Answer:

Given,

SP $of\ the\ article =$ Rs. 555

Discount $= 7.5\%$

Let the MP $of\ the\ article\ be$ Rs. x.

$Therefore,$ Discount $= \frac{Discount \times MP}{100} =$ Rs. $\frac{7.5x}{100} =$ Rs. $0.075x$

Since SP $=$ MP $-$ $Discount$,

$555 = x - 0.075x$

$555 = 0.925x$

$x = \frac{555}{0.925}$

$=$ Rs. 600

Thus, the MP $of\ the\ article\ is$ Rs. 600.

Profit, Loss, Discount, Value Added Tax (VAT) Ex 13.2 Q8

Answer:

Let the CP $of\ the\ article\ be$ Rs. x.

MP of the article $=$ Rs. 250

Discount $= 10\%$

Discount $= 10\%$ of 250

$= 0.10 \times 250$

$=$ Rs. 25

SP $=$ MP $-$ $Discount$

$= 250 - 25$

$=$ Rs. 225

Given,

Profit $= 25\%$

$$CP = \left[\frac{100}{(100 + \text{Gain }\%)} \times SP \right]$$

$$x = \left[\frac{100}{(100 + 25)} \times 225 \right]$$

$$= \left[\frac{100}{125} \times 225 \right]$$

$= Rs.\ 180$

Thus, the CP $of\ the\ article\ is$ Rs. 180.