Profit, Loss, Discount, Value Added Tax (VAT) Ex 13.2 Q9

**Answer:**

Given,

MP of an article = Rs. 500

Discount = 20%

$Therefore$, Discount = 20% of 500

$= 0.20 \times 500$

$= 100$

So, SP = MP − Discount

$= Rs. \left( 500 - 100 \right)$

$= Rs. 400$

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

$= \left[ \dfrac{100}{(100 + 25)} \times 400 \right]$

$= \dfrac{40000}{125}$

$= Rs. 320$

Thus, $the\ actual\ cost\ of\ the\ article$ is Rs. 320.

Profit, Loss, Discount, Value Added Tax (VAT) Ex 13.2 Q10

**Answer :**

Given,

CP of the article $=$ Rs. 170

Profit $= 20\%$

We know that,

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

$$= \left[ \frac{120}{100} \times 170 \right]$$

$$= \frac{20400}{100}$$

$$= Rs. \ 204$$

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

Discount $= 15\%$

Therefore, Discount $= 15\%$ of $x$

$$= 0.15x$$

So, SP $=$ MP $-$ Discount

MP $=$ SP $+$ Discount

$x = 204 + 0.15x$

$x - 0.15x = 204$

$0.85x = 204$

$x =$ Rs. 240

Thus, the marked price of the article is Rs. 240.

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