Profit, Loss, Discount, Value Added Tax (VAT) Ex 13.2 Q11

Answer :

Let C. P be Rs x and M. P be Rs y.

Gain% = 50

We know that,

$$\text{S. P} = \left[\frac{(100+\text{Gain \%})}{100} \times \text{C. P}\right]$$

$$= \left[\frac{150}{100} \times x\right]$$

$$= \frac{3}{2}x$$

Discount % = 25

Discount = 25% of y

$$= \text{Rs } 0.25y$$

So, S. P = M. P − Discount

$$= y - 0.25y$$

$$= 0.75y$$

So, S. P $= 0.75y$

Also, S. P $= \frac{3}{2}x$

Comparing both values for S.P., we get:

$$\frac{3}{2}x = 0.75y$$

$$\frac{x}{y} = \frac{0.75 \times 2}{3}$$

$$= \frac{1.5}{3}$$

$$= \frac{1}{2}$$

$$\text{Thus, C. P : M. P} = 1 : 2$$

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