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,

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

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

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

Discount % $= 25$

Discount $= 25\%$ of y

$= $ 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:

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

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

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

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

Thus, C.P : M.P $= 1 : 2$

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