Profit, Loss, Discount, Value Added Tax (VAT) Ex 13.1 Q9

Answer :

Let the cost price of one pen *be* Rs. C, *and the* selling price *be* Rs. S

Therefore, $10\mathrm{S} = 14\mathrm{C}$

$\mathrm{C} = \frac{10}{14}\,\mathrm{S}$

However, *the* cost price is less than *the* selling price.

$\mathrm{S.P.} = \left(\frac{100+\text{profit }\%}{100}\right)\mathrm{C.P}$

$\mathrm{S} = \left(\frac{100+\text{profit }\%}{100}\right)\mathrm{C}$

$\frac{\mathrm{S}}{\mathrm{C}} = \left(\frac{100+\text{profit }\%}{100}\right)$

$\frac{14}{10} = \left(\frac{100+\text{profit }\%}{100}\right)$

$\frac{1400}{10} = 100 + \text{profit }\%$

$140 - 100 = \text{profit }\%$

$P\,\text{rofit }\% = 40$

$= 40\%$

Therefore, the required profit percent is 40%.

Profit, Loss, Discount, Value Added Tax (VAT) Ex 13.1 Q10

Answer :

Let the cost price of one chair *be* Rs. C, and selling price be Rs. S

Therefore, $18\mathrm{C} = 16\mathrm{S}$

$\mathrm{C} = \frac{16}{18}\,\mathrm{S}$

As cost price is less than *the* selling price,

$\mathrm{S.P.} = \left(\frac{100+\text{profit }\%}{100}\right)\mathrm{C.P}$

$\mathrm{S} = \left(\frac{100+\text{profit }\%}{100}\right)\mathrm{C}$

$\frac{\mathrm{S}}{\mathrm{C}} = \left(\frac{100+\text{profit }\%}{100}\right)$

$\frac{18}{16} = \left(\frac{100+\text{profit }\%}{100}\right)$

$\frac{1800}{16} = 100 + \text{profit }\%$

$\frac{1800}{16} - 100 = \text{profit }\%$

$P\,\text{rofit }\% = \frac{1800-1600}{16}$

$= \frac{200}{16}$

$= 12.5$

Therefore, the required profit percent is 12.5%.

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