

13/Dec/21

Maths

① Cost price of T.V be x
C.P of 12 T.V = $12x$
S.P of 12 bottles = C.P of 15 bottles
= Profit = S.P - C.P = $15x - 12x = 3x$
Profit % $\frac{P}{C.P} \times 100 = \frac{3x}{12x} \times 100 = 25\%$

② Given S.P = 495
GAIN = 10%
We know that $C.P = \frac{(100 \times S.P)}{(100 + \text{Gain}\%)}$
 $= \frac{(100 \times 495)}{(100 + 10)}$
 $= \frac{49500}{110}$
 $= 450$

Cost price of article is 450 R-S

④ Cost price of TV including VAT = RS 13440
Let the rate of VAT be $x\%$
Cost of the TV = $x\%$ of 12000 + 12000
 $13440 - 12000 = \frac{12000 \times x}{100}$

$$= 13440 - 12000 = 120x$$

$$120x = 1440$$

$$x = \frac{1440}{120} = x = 12$$

The rate of VAT on the colour TV is 12%

5) Price of the article = 195
Sales TAX = 2%

Therefore price of the article for the customer = $195 + (2/100) \times 195 = 198.9$

Round = 199

6) Discount = 28% of 500
 $= 28/100 \times 500$
 $= 140$

$$140 - 15 = 125$$

$$R = 500 - 125$$
$$= 475$$

$$S:P = 20\% \text{ of } 475$$
$$= 20/100 \times 475 = 95$$

7) SP = 585 R-S
MP = 650 R-S

$$\text{So, Discount} = \text{MP} - \text{SP} = 650 - 585 = 65 \text{ Rs}$$

$$\text{Discount \%} = \frac{\text{Discount}}{\text{MP}} \times 100$$
$$= \frac{65}{650} \times 100$$
$$= 1/10 \times 100$$
$$= 10\%$$

$$\bullet SP = RS 1200$$

$$MP = RS 1600$$

$$\text{So discount } MP - SP = 1600 - 1200 = 400$$

$$\text{Dis Count \%} = \frac{\text{discount}}{MP} \times 100$$

$$RS = 400 / RS 1600 \times 100$$

= %

$$\textcircled{A} = RS = RS 200 + 300 + 500$$

$$= RS 15500 + RS 500$$

$$= RS = 16000$$

For gain 15%, she should sell with
 $= 16000 + 16000 \times \frac{15}{100} = 18400$

$$\textcircled{b} \text{ M-P of the Car} = RS = 2,10,000$$

$$\text{Dis Count allow} = 5\%$$

$$\text{Therefore, discount} = 5\% \text{ of } RS 2,10,000$$

$$\text{Shikha gets a discount} = 10,500$$

$$= MP - \text{Discount}$$

$$RS = 2,10,000 - 10,500$$

$$= RS = 1,99,500$$

$$\text{VAT} = 10\% \text{ of } 1,99,500$$

$$= \text{VAT} = 19,950$$

$$\frac{10}{100} \times 1,99,500$$

$$= 19950$$

$$\text{Amount paid by Shikha} = 1,99,500 + 19,950 = 2,19,450$$