Assignment - 8

Profit & Loss

1. **A book is sold at 12% profit, if the selling price is ₹ 336. What would have been the original price?**

Solution:

Let the cost price $= ₹\ x$

gain $= 12\%$

$$\therefore \quad \text{S. P.} = \frac{x}{1} + \frac{12}{100}x = 336$$

$$\frac{112\ x}{100} = 336$$

$$x = \frac{336 \times 100}{112}$$

$\therefore \quad x = ₹\ 300$

$\therefore$ The book cost price = ₹ 300

2. **A dealer allows a discount of 20% on the marked price and if the marked price is ₹ 1320. Find the selling price?**

Solution:

Discount $=$ 20% of Marked Price

Marked Price $=$ ₹ 1320

Selling Price $= 1320 - \frac{20}{100} \times 1320$

$= 1320 - 264$

$\therefore$ Selling Price $=$ ₹ 1056

3. The marked prize of a dress is ₹ 1200 a discount of 20% is given and the shopkeeper still gains 10%. Find the cost price of the dress.

Solution:

Marked Price of a dress $= ₹\,1200$

Discount $= 20\%$

$$= \frac{20}{\cancel{100}} \times 12\cancel{00}$$

$$= ₹\,240$$

$\therefore$ Selling Price $=$ Marked Price – Discount

$$= 1200 - 240 = ₹\,960$$

$$\text{Selling Price} = \left(\frac{100 + g\,\%}{100}\right) \times \text{C. P}$$

$$960 = \left(\frac{100 + 10}{100}\right) \times \text{C. P}$$

$$\frac{960 \times 10\cancel{0}}{11\cancel{0}} = \text{C. P}$$

$$\therefore \quad \text{C. P.} = \frac{9600}{11}$$

$\therefore$ Cost price of the dress $= ₹\,872.72$