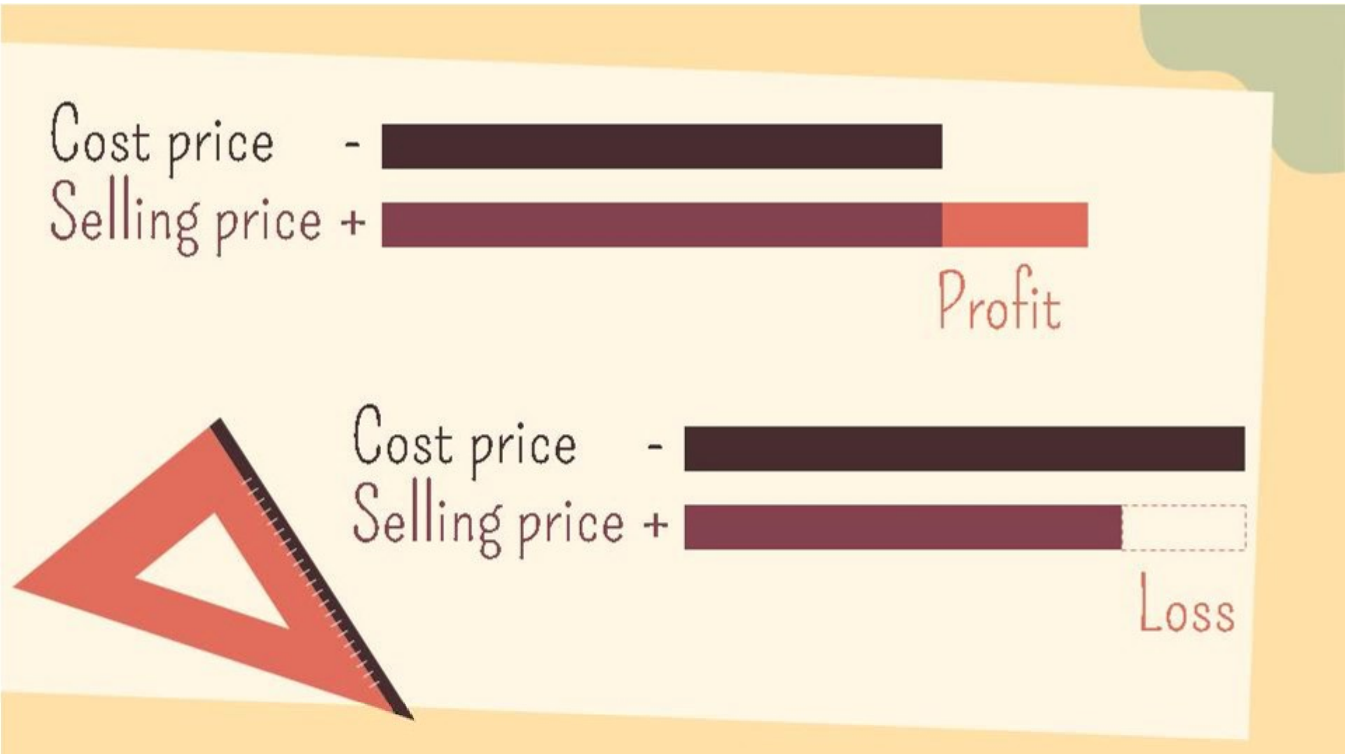
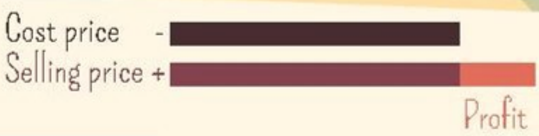

Profit 盈利
Loss 虧蝕
Selling price 售價
Cost price 成本
Profit per cent 盈利百分率
Loss per cent 虧蝕百分率
B
A
C


Cost price -
Selling price +
Profit
Cost price -
Selling price +
Loss

Profit = Selling price - Cost price



$$\text{Profit per cent} = \frac{\text{Profit}}{\text{Cost price}} \times 100\%$$

Loss = Cost price - Selling price

$$\text{Loss per cent} = \frac{\text{Loss}}{\text{Cost price}} \times 100\%$$

SOLVE THE PROBLEMS

By selling a smart lock of \$4250, a man loses \$170. Find his loss per cent.

Solution:

$$\text{The loss per cent} = \frac{170}{4250} \times 100\%$$

$$= \underline{4\%}$$

Sammy bought a dozen of pens at \$ 120. He sold it for \$ 15 each. What is his profit per cent?

Solution:

$$\text{The profit per cent} = \frac{15 - 120 \div 12}{120 \div 12} \times 100\%$$

$$= \frac{5}{10} \times 100\%$$

$$= \underline{50\%}$$

SOLVE THE PROBLEMS

Michael bought 20 erasers and sold them at \$4 each. If it had cost \$50 for the erasers, what was his profit or loss percent?

Solution:

The cost for each eraser = \$50 ÷ 20 = \$2.5

The profit = \$4 – \$2.5 = \$1.5

The profit per cent = $\frac{1.5}{2.5} \times 100\%$

$= \underline{60\%}$

Jackson bought a teaching system for \$6425 and spent \$75 on its transportation. He held a learning course with the system and receive the tution fee of \$6450 in the first month. Find his profit or loss percent.

Solution:

The total cost = \$6425 + \$75 = \$6500

The loss = \$6500 - \$6450 = \$50

The loss per cent = $\frac{50}{6500} \times 100\%$

$= \underline{\frac{10}{13}\ \%}$

Profit 25%

Cost price -

Profit = Cost price x Profit per cent

Selling price = Cost price x (1 + profit per cent)

Loss 20%

Cost price -

Loss = Cost price x Loss per cent

Selling price = Cost price x (1 - profit per cent)

Solve the problems

Adam bought a game console for \$200. He sold it for a profit of 10%. How much has he earned?

Solution:

The amount he has earned = \$200 x 10%

= \$20

William buys an air-con for \$ 3680 and sells it at a gain of $7\frac{1}{2}$%. For how much does he sell it?

Solution:

The selling price = \$3680 x $(1 + 7\frac{1}{2}\%)$

= \$3680 x $107\frac{1}{2}$ %

= \$3956

Solve the problems

Ella buys a wallet for \$ 720 and sells it at a loss of $6\frac{2}{3}$%. For how much does she sell it?

Solution:

The selling price = \$720 x $(1 - 6\frac{2}{3}\%)$

= \$720 x $93\frac{1}{3}$ %

= \$672

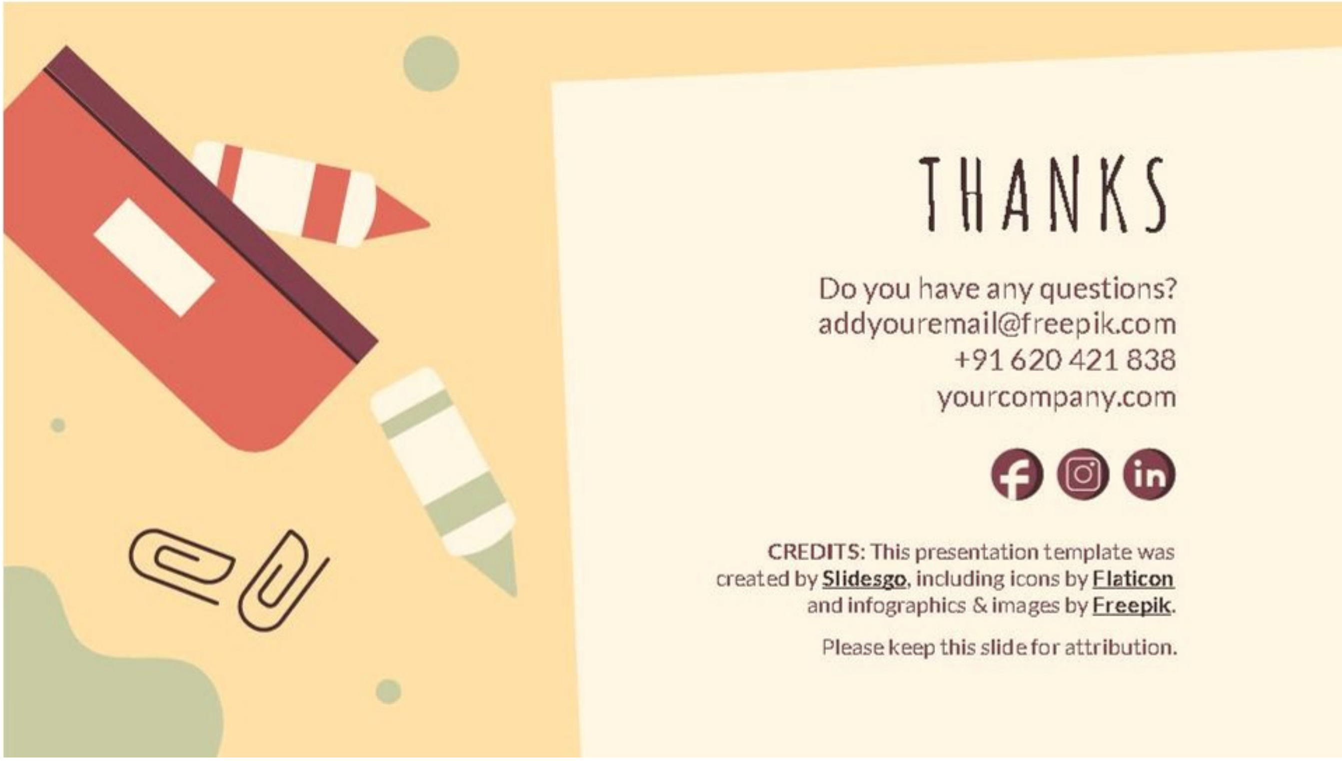
Sara bought a study table for \$ 900. She sold it at a profit of 20%. What is the selling price?

Solution:

The selling price = \$900 x (1 + 20%)

= \$900 x 120%

= \$1080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