PROFIT AND LOSS



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CONCEPT

- Cost Price: It is the price at which any article or unit or item is bought. It is known as CP.
- Selling Price: It is the price at which any article or unit or item is sold. It is known as SP.
- Profit: If Selling Price is greater than Cost Price then seller makes profit.
- Profit = SP CP
- Loss: If Cost Price is greater than Selling Price then seller incurs loss.
- Loss = CP SP

CONCEPT

- Profit = SP CP
- $P\% = (SP-CP/CP) \times 100$
- $CP \times P\% = SP \times 100 CP \times 100$
- SP = [CP(100 + P%)]/100

- LOSS = CP SP
- $L\% = (CP SP/CP) \times 100$
- CP X L% = $(CP SP) \times 100$
- SP = [CP (100 L%)]/100

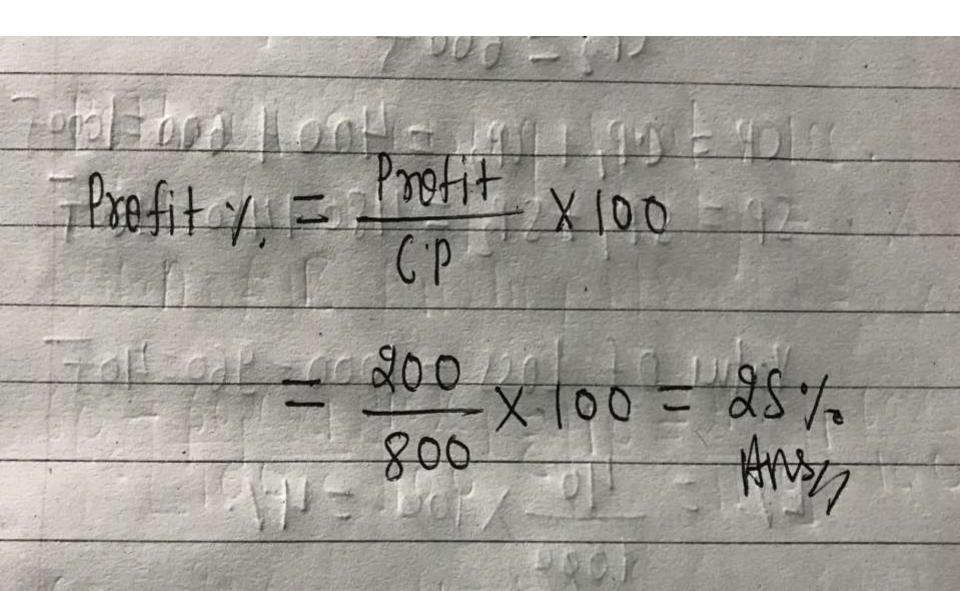
CONCEPT

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• SP = CP X 1.2 (20 \%^{\uparrow})
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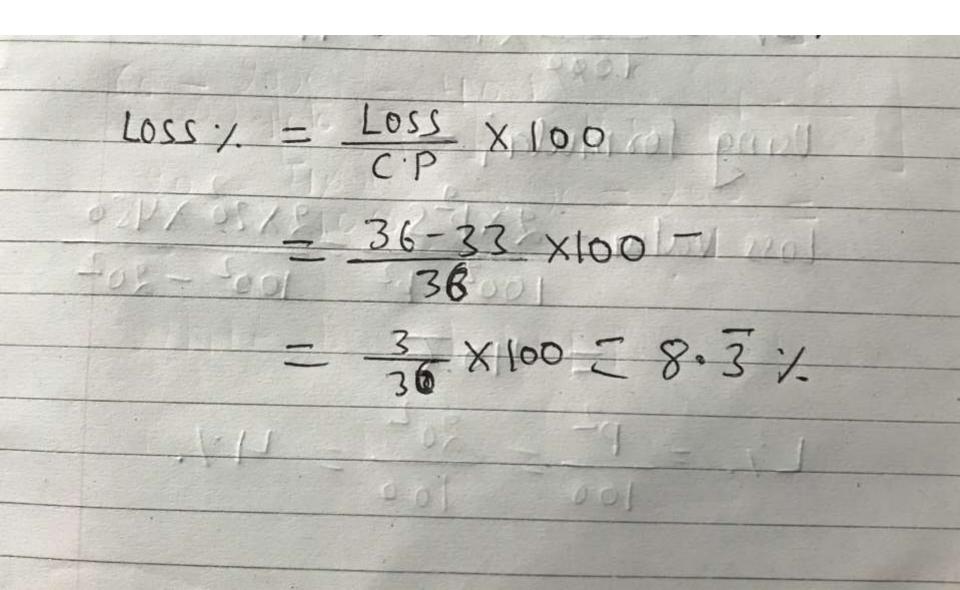
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• SP = CP X .8 (20 \% \checkmark)
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Eggs are bought @ 7 for 1 Rs. If the shopkeeper want to make a profit of 40%. How many eggs sell for 1 Rs. ?

A dishonest shopkeeper use a false rate of 800 grams instant of Kg weight. If he promises to sell the goods at the cost price then his profit percentage?



On selling 36 mangoes, a vender recover a cost price of 33 mangoes find loss percentage?



RULE-1

If two articles are sold at a <u>common selling</u> <u>price of Rs. S (each).</u> One is sold at a profit of P% another at a loss of P% then effectively there is always a loss during entire transaction.

Loss value =
$$(2 P^2 S)/(100^2 - P^2)$$

Loss
$$\% = P^2/100$$

RULE-2

If two articles are bought at a <u>common</u> <u>cost price</u>. One is sold at a profit of P% another at a loss of P% then effectively there is <u>no profit no loss</u>.

T-Shirt are sold at a common selling price of 480 Rs. (each). One is sold at a profit of 20% and another at a loss of 20%. Find the value of profit or loss?

S.P. =
$$S.P_2 = 480 = 480 = 480$$

One is sold cit a profit of 207.

S.P. = $C.P. \times 1.9 = 480$

C.P. = $C.P. \times 1.9 = 480$

S.C.P. = $C.P. \times 0.8 = 480$

C.P. = $C.P. \times 0.8 = 480$

C.P.

GATE-2013

A reduction of 5% in price of sugar enables a housewife to buy 3 kg more for Rs. 280. Find the reduce price.

- (a) 4.92/kg
- (b) 5.5/kg
- (c) 3.33/kg
- (d) 4.67/kg

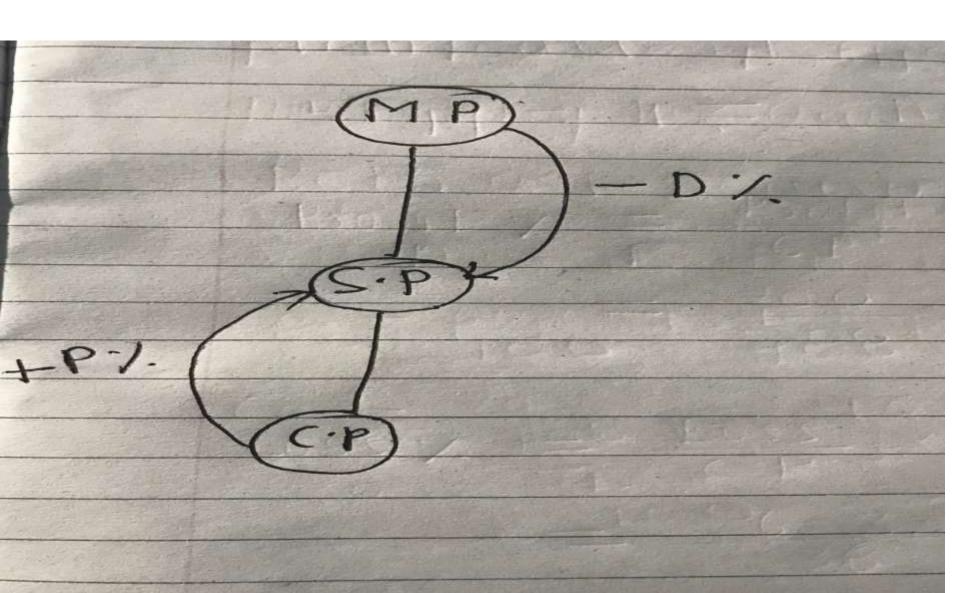
Let initial sugar priu
$$x \neq /kg$$
.

 $\frac{280}{0.95\%} = \frac{280}{3} = 3$
 0.95%
 $x = 4.92 \neq /kg$

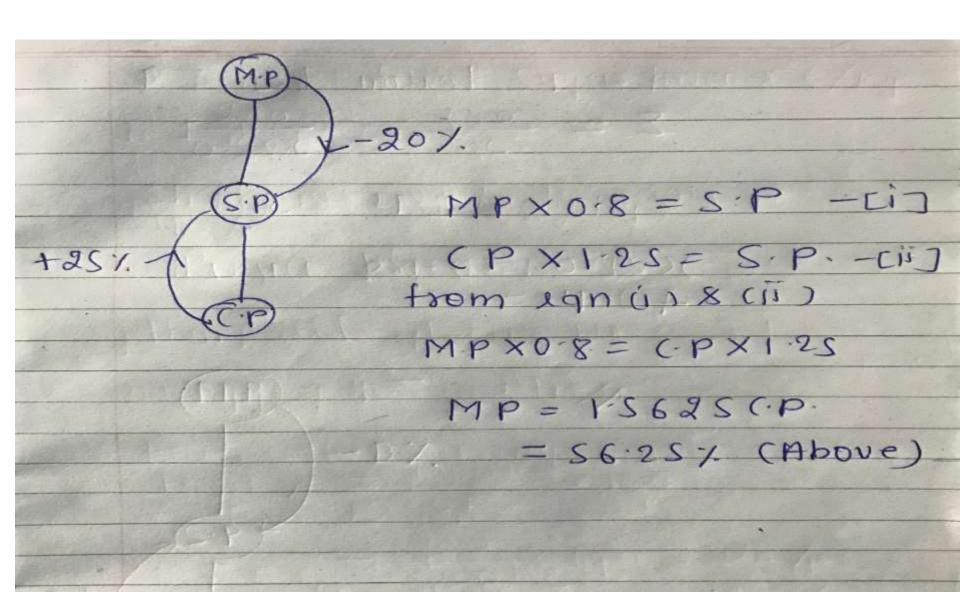
Riduu priu = 0.95%

 $= 4.67$

MARKET PRICE



After allow a discount of 20% a shopkeeper still manage to make a profit of 25%. By what percentage is the market price above the cost price?



Thank you gettyimages'