Profit & Loss: To determine price of a commodity.

whether it is profitable Ind.

Terminologies: Cost Price (CP), Selling Price (SP), Fixed cost,
Variable Cost, Lose

Profit: Buy a pen @ 2 Rs

sellit @ 3ks.

Soln: (P = 2

SP = 3 Profit / Loss = SP - CP

-3-2

= (

"ans. is the, I wa profit of Rs. 1.

C.P. It is ant pard for any product.	
Fixed (0st	Variable Cost
It is constant	It is variable.
eg: NS: 160 emp	egiNS: I amah
= 25 Lakhs	externí resoura-
- · · Uparly outgoing = 25 x12 Lakh	I an a
	variable 6th to NS.
Dislount = Marked Price _ SP	
Bread: Shopke open get bread at	Rs. 25 (CP)
mps of Lines	J = 14,30
_:. Arf = R	5.30 -R3.25 = Rs.5
2) He decides to give IRS	discount on bread to
attract more footfalls to his shop.	
-: Disc = Mkd Price - SP	
= 30 - 29	
= Rs.1	

Loss Percentage-

5.
$$SP = \frac{100 + P^6/0}{100} \times CP$$
6. $SP = \frac{100 - L^6/0}{100} \times CP$

 $=\frac{20}{100}$ $\times 100 = 20\%$

7. CP = { 100 / (100+P1/) } xsp

8. CP = { 100/ (100-L1/)] X SP

q. Discourt = MarkedPrice-SP

10. SP = Marked Price - Discount

3. A shapkoeper buys a fan far Rs. 1000

Lisells it at a loss of 15%.

What will his sp?

Soln'. (P=1000

Loberton.)

L/. = (L/CP) X100

15 = L X186

L= 15 X10

)_= IS0

<u>L - 170</u>

L= CP-SP

150 = 1000 - SP

SP = R3 · 850/_

4. If a pen cost Rs. So after 10% discount, then what is the actual price/marked price of the pen? Soln: SP= MP-D who SP= Selling price mp = marked price D=Discount Percent discount, D'/ = D X 100

Sub. @ in 1)

Sb = 100Wb - (DaloxMb)

1008P= 100M - 10 mp

$$\frac{100 \times 50}{90} = \frac{500}{9}$$

$$\therefore MP = 1855.55$$

CP = x

Sp=24

Lets assume (P=x f

$$\frac{p}{3p} = \frac{y-x}{2y-x}$$

$$2y - x = 3y - 3x$$
 $2x = y$

$$= 2x - \chi = \chi$$

$$= 2x - x$$

$$\frac{P}{R} = \frac{P}{R} \times 100$$

201.?

HIW: In a certain store, the profit is 320% of the cost.

If the cost increases by 25% but the SP remains

constant, approximately what closure of Spis profit ?

Simple Interest. SI= PXNXR

To calculate overall game due to SI, we use:

who A= (Total and + Interest)

in 3 yrs & to R1 854 in 4 yrs. The sumis?

215

-:. In 1ylm, s1= 85+ -815= Rs.39

Soln:

3443

SI for 3415= 39 X3 = 117.

:. Principle 815-117 = 698.

Soln: SI = PXNXR

$$P = \frac{S1 \times 100}{NR} = \frac{4-616.25 \times 100}{5 \times 9}$$

= Rs. 8925

3 Rahul took a loan of Re. 1200 with a SI for as many years as Rol. If he paid Rs. 432 as interest at the end of loan period, what was RO17 Soln: Loan = 1200 Time = R yos RO1= R.1. SI= PNR 432= 1200 XRXR Compound Interest: A=P(I+x)nt t = time in yrs r= interest rate

$$= 3321 \qquad CI = 3321 - 3200 = 12175.$$
19t Jan to 19t June: $I = PNR = 1600 \times \frac{1}{2} \times \frac{5}{100}$

$$= \left[\frac{1600 \times (1 + \frac{5}{100 \times 2})^{2}}{100 \times 2} + \left(\frac{5}{100 \times 2} \right) \right]$$

$$= \frac{3321}{100 \times 2}$$

$$= \frac{3321}{100 \times 2}$$

$$= \frac{3321}{100 \times 2}$$

2nd a: Jun to Dec.
$$S1 = PNR$$

$$= 1600 \times \frac{1}{2} \times \frac{5}{100}$$

$$= 40$$

$$\therefore T_{6}tal \ lat = 40 + 41 + 46 = 12118$$