रम आदमी अपनी आय का 75% श्वर्ध करता है। माद उसकी आय में २०% की और शबर्च में 10% की वृद्धि है। जार ते। उसकी वाचत में कितन प्रतिरात की वृद्धि होगी ? Solution: I (BASTC) II CAlligation) INCOME - Exp = Saving 100 - 75= 25 75% : 25% = 3:1 (+201.7 (10.1.7) 120 - 82.5 = 37.5 $X.1. = \frac{19.5}{100} \times 100 = 50\%$ # यम व्यक्ति अपनी आम का २००० किराए पर श्रेष का 30% खाने पर और उसके द्वांच का 50% शिक्षां पर श्वन्त भरता है। अन्त में उसकी वान्यत ६३००/- है। तो उसकी आय क्या भी Solution: 6300 × 100 × 100 × 100 = 22500 ANS. # औड विक्ता कल बिकी पर 12.10 कमीशन देवा है। त्या 15000 र से जपर की विक्री पर 10% वर्गस देता है। यदि विकेता की कल आय न650/ र है तो कल मितने का की बिक्री डिडि न Solution; - ICBASIC) I CTRICKY) माना जल । बिर्जी = x के 15000 + $\therefore \times \frac{12}{100} + (x - 15000) \frac{1}{100} = 7650$ 12000 X 1.1/2 = 150 $\Rightarrow \frac{12x}{100} + \frac{x}{100} - 150 = 7650 + 150 = 7800$ = 13.1. ×600 7800 3 X = 60,000 ANS. 100.1. 2600 60,000

A student multiplied a Number by 3 instead of 5. what is the PER centage evuos in the calculation?

Solution: Let the Number = 15 (Lcm of 3 \$5) wrong Result = $15 \times 3 = 9$, Actual = 25 Result = 90 ERROR = $\frac{25-9}{25} \times 100 = 640$ 1. ANS.

Two Number are less than a third number by 30% and 37% respectively. The Percent by which second Number is less by first is? Solution:— Let third No=100

Reg. Regult # X100 = 10% ANS.

IF the Numerator of a traction is 1 by 201.

and denominator is I by 10% the resultant fraction be comes 36. Find the original fraction?

Solution & Let original fraction = x

 $\frac{x\left[1.20\right]}{Y\left[.90\right]} = \frac{36}{45} \Rightarrow \frac{x}{Y} = \frac{36}{45} \times \frac{9}{12} = \frac{3}{5} \frac{ANS}{12}$

IF the INcome Tax is increased by 19%, then Net income will be decreased by 8%. Find the Rate of income tax? Solution: [CONCEPT] Net Income = Income - Tax → Net Income + Tax = INcomE in these type of ourstions Income is same Note: If Tax is 1 by 7x, Net Income will be decreased by Ex. or vice - versa but % may vary. e.g. 50 + 30 = 807 89meIncome 1's same 19% of Tax = 6% of Net Income $\Rightarrow \frac{19}{6} = \frac{\text{Net Income}}{\text{Tax}} \Rightarrow \text{Infome} = 19+6$ Tax 10 = Tax x 100 = 6 x 100 = 241.

income 25 ANS. IF in come Tax is increased by 19.1, Net income get decreased by 1%. Find the Tax Rate ? Solution: 19% of Tax = 1% of Ned INCOME → Tax = 1 → Income = 1+19 Net Income 19 Tax % = 1 x 100 = 5 % ANS.

A candidate got 25.1. marks and fail by 30 marks while another condidate who scores 50% marks gets 20 marks more than minimum Required marks to pass the Examination. Find the maximum and passing marks for the Exam? Solution: - equate passing marks I 25%+30 = 50%-20 => 25.1, =50 : mm (100.1,) = 2x100=200 1 % = 2 Passing MARKS = 25.1.+30 में उत्तीर्व किते हैं। न० १० हिन्दी में अंद पठ्या दोनों विषमों में उत्तीर्व (पास) होते हैं। ते दोनों में फेल होने वाले ब्वामी का प्रतिशत नया होगा ? II (VENN Dragram) Solution: - I (FORMULA) N(AUB) = N(A) + N(B) - NAAB) = 70+60 - 40 = 90failed in = 100-90= 10% fail = 100-90=10%. # किसी परीक्षा में 80.10 व्याम अमेजी में और 82.10 गामित में उप्पान भी है। जवामे नरा पाना में उत्पान हार है। थावि पड धात्र इन दीनी विषमी में अनुतीर्व हुर ही ती जल धार्म की संख्या भाव करी ? Solution: feul= 100 - 90 = 10%. E →80 %] +165 % -75 90 % -10% -- + 45 100%. - 450 ANS.

भ रामकाण (जिसकी माना वो नहीं आरगा)

A total of ₹ 180 1/8 to be divided among 100 students such that each girl student receives ₹ 2 and each boy student receives ₹ 1.5. Find the Number of girl students?

solution: I

set all are boys

money divided will be

= 100 × 1.5

= 150

money Rem => 180-150=30

which was due to diff of 50

#girls = 30

0.5 = 60 ANS.

(Boys मार्न तो शह आस्मा)

माना सारी लड़ियां भी 100

Money = 100 X 1 = 200 - 180

मिल रहे भी ।

मिल रहे भी ।

मिल रहे भी ।

मिल रहे भी ।

प्रिंग के वर्ण = 40 - 180

(व्यार्ग माने तो boy's आर्गा)

=) girls = 100 -40 = 60 # In a 200 , there are only progeons and rabbits if there are total of 200 heads and 560 legs then find the Number of pigeons and Rabbits? Solution: - Let all are process (200) det all are Rabbits (200) :. 191 = doox 2 = 400 OR 3. 1898 = 200xy = 800 extra = 560- 400 = 160 gap = 800 - 560 = 240 but extra 160 is due to 240 vola coz pigeon & more legs of Rabbit has two less 1498 # Rabbit = 160 - 80 AND # pigon = 240 = 120 (Pigeon HIM) of Rabbit 31441) (Rabbit HIM) of Pigeon MIN)

#Pigeon = 200-fo = 120 ANS. #Rabbit = 200-120 = 80

Each correct ANSWER fetches 4 marks and each wrong answer fetches a penalty of 1 MARK. IF a student attempts 48 semestions and scores 132 marks. Hen fond the Number of correct and wrong answers? solution: Let he attempted all (48) correct To tel MARKS = 48 x4 = 192 but his actual score is 132. Difference of 60 is due to diff. of 5(4-(-1)) b/w correct and wrong = $\frac{60}{5} = 12$ [correct that of wrong 317711] # correct = 48-12 = 36 ANS # Population of a Town is 15000. If the Number of the males 1 by 8%. and that of females by los. then the population would increase to 16300 after 1 yr. Find the Number of females? Solution: let all are females let all are male :. Population after lyr Population after lyr = 15000 + 15000 X8 = 15000 + 15000 x10 = 16200 = 16 500 gap = 16300 - 16200 99b= 16500-16300 = 100 1ess = 200 Ex+8a # male x = 200 x 100 # females = 100 x 100 10-1--8-1- = 5000 = 10,000 (male HIHI of female 3174) (female HITH of male

female = 15000 - 10000

A man lent 2000 partly at 5% and balance at 4%. If he receives 7 92 as amual
at 4.6. If he receives 7 92 as amual
interest. And the amount lent at 5%?
Solution: Let whole amont is invested at 4%
SI after 140 = 2000 x 4 = 20 2
gap = 92-80 = 12 ₹ [coz Rate diff = 5-14.]
amost leut at 5% = 12 × 100 = 1200 Aus,
[पन भाना ते ड्रा. वाला आस्पा]
A man covers a total of 240 km in 6 Rours
partly at 30 km/hr and nest at BOKM/hr.
what distance was covered at 30 km/Br.
Solution: - Note -> Ratio of speed gives Ratio of Time
let he covered all distance at 60km/Br
: in 6 hours D= 60x6 = 360 km
gap = 360-240 = 120 km
Time for 30 km/hr Journey = 120 = 48x
[60 of HIMI of 30 of Time 2000]
Time for 30 km/hr Journey = 120 = 482 [60 -51 HIHI of 30 -51 Time 31141) D= 4x30 = 120 Km ANS.

PROFIT & LOSS

Profit, Loss & Discount (लाम, टार्नि और बहा)

Terminology:

cost Price (c.p.) 574 tor4
The Price at which autictle is bought or money that goes out of focket.

Selling Puice (s.p.) िकम्म मूल्म

The puice at which auticle is sold or the amount of money that comes into pocket.

Note: The Selling Price (s.P.) of the seller. is the cost puice of the buyer.

PROFIT (लाम) if SP > CP P = SP - CP = वि॰ मू० - ऋ॰ मू॰ Loss(हामि) if <math>CP > SP L = CP - SP = ऋ॰ मू० - वि॰ मूल्म

IF PROFIT on Selling an auticle for 7 425 is same as loss on selling it for ₹ 355. Find the cost puice of the Article P III (TRICKY) Solution: - I (BASIC) Find $SP_{1}-SP_{1}=445-355$ let Copo = X +485-x = X-355k \Rightarrow $4x = 780 \Rightarrow x = 390 \text{ A}.$ SP, +SPL = 425+355 € CP= 425-35=390 OR CP= 355+35=390 = 390 ANS. # किसी वस्तु की 1560 में बेचने पर जी लाम होता है वह उसी वस्तु की 760 में बैचाने पर हुई हानि से 3 गुणा है। तो अन वस्तु का कु० मू० क्या होगा ? Solution: I (BASIC) 1560 - 760 = 800 let $C \cdot f = X$ 1560 - x = 3(x - 760)200 600 \Rightarrow 4x = 3840 \Rightarrow x = 960 CP= 1560 - 600 = 960 ANS. OR CP = 760 + 400 = 960 # IF the Profit on selling an article for ₹ 480 is 25% more than loss on the selling it for 7 300. Find the cost price of auticle? Solution: SP2-SP, = 480-300 125: 100 Follow me On 5 Unacademy Sunil Kumar Kharub → cp = 480 - 100 = 380 Educator since May 2018 Maths Teacher for COMPETITIVE Exams Experience Of 10 Years Teaching OR CP = 300 + 80 = 380 ANS. More than 3 Lakh Students Following on Social media For Maths Tricks

ZZZ 1 Z Edlower Edlowing Powers View Profile

Profit and Loss is always calculated/Reckoned on cost puice unless otherwise stated. लाम और हानि प्रतिरात हमेरा। कुम मूलम (८.१.) पर नात किर जाते हैं। परने अगर Examiner atar दें कि आपकी विक्मू पर जिनालना है तो आप विक्मू पर ही निकालें।

PROFIT % =
$$\frac{PROFIT}{COST Price} \times 100 = \frac{P}{CP} \times 100$$

$$LOSS \% = \frac{LOSS}{COSTPRICE} \times 100 = \frac{L}{CP} \times 100$$

$$Sf = Cf * (00 - L.1.)$$

METHOD1 (100% वाला तरीका) आपको कुन्मु (CCP) की हमेशा 100% लेना है। e.g let P% = 20 0/0 CP = 100 0/0. L90 = 20% CP = 100% SP = 80% # CP= 600 , P% = 20% ,5P=7 100% -> 600 SP = 1200/0 -> 600 X120 = 720 ANS. # SP= 5120 Lolo = 20%, CP=? L % = 20 % CP = 100% > sp = fool, -> 5120 1 % - 5120 CP= 100% -> 5120 x100 6400 ANS. # CP=? P10=25% SP=6250 P1/0 = 25 % CP =100.10 > SP = US% -> 6250 TO PURCHASE CP 100% -> 6250 x/00

45 = 5000

EXAMS WHATE ARE

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Solution:
$$\frac{c\rho}{S\rho} = \frac{8}{9} \Rightarrow \text{Profit} = 1 \Rightarrow \rho \% = \frac{1}{8} \times 100$$

$$= 18.5\%$$

$$\frac{5}{4} \circ 1 \Rightarrow P010 = \frac{1}{4} \times 100$$

OR $5 \circ 4 = 25 \circ 100$

Solution:
$$20\% = \frac{1 \rightarrow P}{5 \rightarrow SP} \Rightarrow CP = 4$$

Solution:
$$L^{0/0} = 10^{0/0} = \xrightarrow{1 \to L} \Rightarrow CP = 10 + 1 = 11$$

Actual L⁹/₀ =
$$\frac{1}{11}$$
 × 100 = 9.09 % ANS

By selling a mobile for & loys a man losssy. At what Purce should he sell the mobile to goin 5010 P Solution: I (Basic) II CTH'CKY) CP= 100% always 5.1. LOSS = 1->L 20-3CP SP1 = 95 % [5% LOSS] 501. gain = $\frac{1-p}{4p-cp}$ Sh = 105 % [516 gein] 95.1. --- 1045 $\Rightarrow 105\% \rightarrow 1045 \times 105 = 1155$ X55 1045 # रक आहमी केरक देंट की 1920 में वन्पर्न पर 20% की हानि हुई। भवि वह उसे 2520 र में खेन्यता ती कितन % की लाम मा हानि होती ? I CTRICKY) Solution: I (BASIC) 1920 -> 80% [20.1. L] SP, = SP2 1 -> 800% 100 ± P/L 100 ± P/L 192 = 252 25%0 -> 80.1. X1280 80 100 ± P/L > 100 + P/L = 105 = 105% 105 % me ans 5% Profit → ±P/L= 5 => P 1/0 = 5 1/0

An Article is sold at 8% loss. Had the spopkeeper sold it for ₹ 650 more he would have gain 5%. Find the cost purce? Solution: - I (Basic) I (TRICKY) Let CP = ₹ X 100.10 -> CP SPS SP, SPI SP, X[.98] +650 = X[1.05] 92.1.) → X[·13] = 650 13% -> 650 → X = 5000 ANS. :. 100% -> 5000 ANS # यक द्नानवार ने एक मोवाईल 500 हानि पर वेचा। अगर् वो पहले से इसकी र 3375 जमादा में केपता म् उसमी अक 10% का जाम होता। वह उस माकाईल की भिवने र में वीची कि अब उसकी २०% की लाम ही? Solution: - I (BASIC) I CTRICKY) FIIII CP= ₹X 100 70 -> CP SPo SPI SPZ X[.95]+3375=X[1.10] (110-1. (95% → ×[·15] = 3375 > X = 22500→ CP SP3 [12016] -> 3375x 120 SP3= 2250(1.20) = 47 000A) = 27000 ANS.

A shopkeeper sells an auticle at 120% Profit.

Had he bought it at a fuice 10% Less #Ban
earlier and 8dd for 7 250 more he would have
gain 30%. Find the cost purce of Article?

Solution:
$$\mp (BASIC)$$
 $\mp (TRICKY)$
Let $CP = X \neq$ let $CP = 100$ 90
 SP_1 $1e_{11}P$ $1e_{12}P$ $1e_{13}P$ $1e_{14}P$ $1e_{14}P$

एक दुक्तनवार एक वस्तु की २०% लाम पर विचल।
है। अगर वह उस वस्तु की २०% पहले से कम पर खरीदे
और ह 75 कम पर वेचे तो उसे अब २5% का लाम
होता है। तो उस वस्तु का उम मूल्म बवा औ?

Solution: I (BASIC)

375 7 ANS

A shopkeepER sells his goods at 25% Profit. Had he purchased it for 7 900 less and sold for 7 900 less he would have gain 5% more & Find the ouiginal cost purce ? Solution: I (BASIC) TICTRICKY) 125%-900= (100%-900)(1.30) 1250% - 9000 = 1300% - 11700 $=\frac{30\%}{5\%} \times 900$ → 50% = 2 700 = 5400 ANS-:. 100% = CP = 5400 ANS. # एक दुकानदार अपनी वस्तु की २०% लाम पर वाचला है। भारि वह रूम सूलम और विक्रम सूलम की नी नी 100 र नम नर दे तो असना लाम पण कढ आवा है। तो वस्तु का उर मू व व लाओ २ Solution: I (BASIC) II TRICKY 20% P = 1-P SP-6 CP1: SP = 5:6 24 010 = 6 -> P SP -> 31 Ch: Sh= 25:31 54mit -> 100 $\frac{5x-100}{6x-100}=\frac{25}{31}$ 30 unit CP -> 600 ANS ⇒5× = 600 ANS.

A shopkeeper sells his goods at a profit of 20%. If he reduces both or and SP by ₹10 and Z 5 respectively then the profit %. Thy 10%. Find the cost Puice of auticle? 20% P = 1-P -> SP-6 (1201,-5)=(1001,-10) (130) let CP = 5x, SP= 6x OR 1200% - 50 = 1300% -130 Now 30% P = 3 - P -> SP-13 → 100% = 80 ANS. $\frac{5x-10}{6x-5} = \frac{10}{13}$ OR 65x-130=60x-50 => 5x = 80 = CP ANS # रम देमानवार राम वस्तु की 25% में लाम पर विचवा है। यदि वह अपने इ० मू० अर्थर वि० मू० में ममराः 20 र अर पर पर वहार ता असमा लाम 150. व्यट आला है। तो वस्तु का क्रिम स्वम भात करी ?

are shirt ξ_1 at are ξ_1 ξ_2 ξ_3 ξ_4 ξ_4 ξ_4 ξ_5 ξ_6 ξ_7 ξ_7

To Purchase 150% = 180 30 100% = CP = 180 x 100

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150% = 180 x 100

= 180 x 100

= 180 x 100

Exams WHATS APP ON

ARTICLE BASED QUESTIONS

Note: - In this type of Question आपकी Articles (वस्तुरें) की वारावार रखना होगा। eg if you have 20 auticles CP then you must have 20 auticle sp

Articles were bought at 6 for \$ 5 and sold for 5 for \$ 6. Gain/ loss percent is? I (Trucky) Solution: - I (Basic) make the Article equal at Lam of 6,5=30 Buy 5x6 5x5 = 25 CP Sold 6×5 $6\times 6 = 36SP$ CP=25 gain % = 11 x 100 = 44 % ANS. SP = 36 $\rho_{0/0} = \frac{11}{8.5} \times 100 = 441.$ # राम पुमानवार केवर वस्तुओं की 15 र में 12 वस्तुओं की वर से श्वरीव ता है और समी वस्तुओं की 14स में 10 वस्तुओं के हिसाक से वाच देता है। ती कितने प्रतिकात लाम मा हानि हुई ? Solution: $\Rightarrow 150 \rightarrow CP \Rightarrow 100 = \frac{18}{150} \times 100$ Sold = 120/0 ANS.

井 IF COST PRICE OF 18 auticles is equal to selling puice of 15 auticles. The gain % is? Solution :- I let cp of 18 = sp of 15 = 90 crof 18 = spof 15 > cr of | auticle = 5 $\Rightarrow \frac{CP}{SP} = \frac{15}{19} = \frac{5}{6}$ ⇒ sp of lauticle=6 → gain % = 1x/00 gain % = == = 20% = 00% मा अगर व वस्प्रमा का कम में कम विस्प्रमा के वि० मू० के वारावार हो तो लाम/ठामि ०/० वारारे ? Solution: I Crof q = Sp of 12 भाना CP of 9 = SPofle = 36 Cf of 1 auticle = 4 $\Rightarrow \frac{CP}{SP} = \frac{12}{9} = \frac{4}{3}$ Spof 1 auticle = 3 → 108x0/0 = 1×100 loss % = 1x100 = 25%. = 25% # III RO METHOD = #GOOD LEFT XIDD # Goods sold cp of 18 = SP of 15 cp of 9= spof 12 %LOSS = 3 X100 00 Profit = 3 x 100 = 25% ANS. = 20% ANS.

stt Type of Questions it 3114 of focus ontil 美母 Profit/Loss SP 41 CP 局部 知年 given & 1 3HTK PROFIT/LOSS SP \$ 74 # given & of 1 auticle and SP = 17 HIN ON 31/2 31012 Profit / loss CP & Tru & given & of 1 auticle of CP = 17 ATTO AT 1 eig Profit = Spof 11 auticles = let spof. lasticle loss = cp of 11 auticles => let cp of 1=17 # By selling 33 m of cloth a shop keeper gains cf of 11m find gain %? Solution :- I let cp of Im = 17 goin = SP - CP → CP of 33m = 33 ₹ 3 SP of 33m - cp of 33m gain = cp of 11m = 117 = cp of 11m > Spot 33m = CP of 44m gain $\phi_0 = \frac{11}{33} \times 100$ $\Rightarrow \frac{c p}{s p} = \frac{33}{yy}$ = 33.33% An \Rightarrow goin $\theta = \frac{11}{33} \times 100 = 33\frac{1}{3}\%$ # By Selling 33m of cloth a shop keeper gains SP of 11m. find gain o/o 7 Solution: let spof 1m=1 ₹ SP of 33m-cpof33m = SPOF 11m → SP of 33 m = 33 ~ => SP of dam = CP of 33m gern = SP of 11m = 117 $\Rightarrow \frac{CP}{SP} = \frac{22}{33} \Rightarrow \frac{\text{gain}}{12} \times 100$ Cf of 11m = 33-11 = 22 gain % = 11 x100 = 50% =50%

By selling 33m of cloth a shopkeeper loss cp of Ilm. find loss % ? Solution: I let crof m= 1 = LOSS = CP-SP CP of 33m = 33 = cpof 33m-spof33m loss = CPOf 11m= 117 = crofilm ⇒ CP of edm= SP of 33m $loss = \frac{11}{33} \times 100$ $\Rightarrow \frac{CP}{23} = \frac{33}{33}$ = 33 /3 % ANS. $loss \% = \frac{11}{33} \times 100 = 33\frac{1}{3}\%$ # By selling 33 m of cloth a shopkeeper losses SP of 11m. find 1088% ? Solution :- I let sp of Im= 17 cpof 33m-sp of 33m SP of 33m= 33 ₹ = Spof 11m => CP of 33m = SP of 44m 1055= 5P of 11m=11 7 → cp of 33m = 33+11 $\Rightarrow \frac{CP}{SP} = \frac{44}{33}$ 2050 % = 11/4x/00 = 25% 0% 1088 % = 11x/00=25% अठ संतर क्यान पर राम द्वानार की परांतरी के Solution: I माना रिश्तर मा कुण्मू = 1र SP of 36 - CP of 36 लाम = ४ संतर मा कु॰ पू॰ = ४ = crofy => SP of 36 = cp of 40 CATH 0/0 = 4 × 100 $\Rightarrow \frac{SP}{SP} = \frac{36}{40} = \frac{9}{10}$ = 11 / 9 % A48, 7 Polo = 1 × 100 = 11 4 %

36 सं एर वे चर्न पर राम दुमानदार की पसंतरी के विक्रम भूलम के वारावर लाम होता है। लाम % क्या होगा? Solution: - I (Basic) OR II (TriCKY) माना ।संतर का विवम्व= 1 र spof 36 - Cp of 36 = sp of 36 4 लाम = प संवर्ग का विष्मु०= प 36 सं तर्र का वि मूण= 36 => Spof 32 = cp of 36. or $\frac{CP}{SP} = \frac{32}{36} = \frac{8}{9}$ → 36 संत्य का कुळ्मू०=36-4 =31 i. 0174 % = 4 x100=4.5 MTH 1/0 = 1 X 100 = W.50/0 # 36 संतरे जेन्से पर राम पुमानवार की प संवर्त के कानू solution: I (Banc) II (Trucky)
HIA) 14 ort 51 CP= 17
CITA = 44 ort 51 CP = 47 crof36-SP of 36 = CP of 4 → CP of 32= SP of 36 3641 (NA) ST CP = 36 7 $\Rightarrow \frac{CP}{SP} = \frac{36}{38} = \frac{9}{8}$ ETTA 1/0 = 4 x100 = 11/9 % LOSS 40 = 1 x 100 = 11 1/9% # 36 संतर विष्य पर राम दुकानपार की प संतर्ग के विम्म स्टामां के वारावर हानि होती है। हानि गर ममा होगा ? Solution: I (BASIC) II (TRECKY) माना । संतर् का विम् = । द cpof36-Spof36 = spof 4 ETTA = 4 4 (0+) 451 SP=4 CP of 36 = SP of 40 36 ti cat # SP = 36 => 36 tical TICP=36+4 $\delta \Pi_{\sigma} = \frac{4}{40} \times 100$ 8/14 % = 4 × 100 = 10% = 10% ANS.

A man buys some apples out the rate of 1 Apple for 7 2 and equal no. of apples at the rate of 2 apple for ₹1. He sells all of them @ 4 apples for ₹3 find the profit/loss % ? Solution: - Article Price of - wilder 2 2 EX2 = 4 17 =1 CP of y = y + 1 = 75sp of 4 = ₹3 → loss 0/0 = = ×x100 = 40 0/0 ANS # 1 दुकानवार कुण वस्तुओं की पर में 3 वस्तुओं की वर से अवरीवला है और वह उत्तरी ही वस्तु 5 र में प वस्तु की वर से अवरीववा है। इन भार्मी वस्तुओं की 3 र में 2 वस्तु की वर से बीचा देवा है। उसे कित्र में % Profit मा loss हुआ ? Solution :- Article Price 4 x4 = 16 4×3 3×4 $5 \times 3 = 15$ रेप वस्तुओं का ८० = 31 2 ax 1331 = 51 SP = 3 7 24 axist. AT SP= 3x12 = 36 Profit % = 5x 100 = 500 %

A shopkeeper purchases orange \$ 30 for ₹ 100. How many should he sell in ₹ 100 to gain 20%? Solution: I CBasic) II (Tuicky) $E = P \times R$ E = 100 = 89me $\Rightarrow P = \frac{1}{2}$ CP of 30 oranges = 100 Sp of 30) = loo x1.20 = 120 ₹ Now 120 ₹ \$ - 30 orange ⇒ 100 ₹ \$ - 30 × 100 old Price 100 NEW # रुक दकानवार ने । र में रड टीफियां स्वरीवी। वह । र में कितनी लिकिया बेची कि उसे 25% का लाम है। ? Solution: I (BASIC) II (TRICKY) 25 टाषिम् का क्र॰मू॰=1 E= same=17 २5 थिया ना वि म्०=1.25 Price 100 =) 1.25 7 A at 25 New → 1 ₹ # dt 25 = RD aty 125 5 x (| 1) x 5 Note: > 3-131x Sale | Purchase of Puice Same में Same रख में जी और वाव में Unitary
ना उत्ता होगा | अगर नहीं Same है ती starting

By Selling 15 oranges for 17 a man loss 20%. How many for 1₹ should he sell to gain 20%? Solution: I (Basic) II (Tricky) II (Tricky) SP, of 15 oranges = 17 Ex= Mice X aty CP of 15 oranges = 1 = 5 E= Same = 1₹ Price & 1 SP. of 15 oranges = 5x1.20 New puice so % 1.5 ₹ A d=1 = 1.5 ₹ at 15 4. 94 = 12 = 10 # By selling 45 oranges for \$ 40 a man loss 20%. How many should he sell for ₹ 24 to earn 20%? Solution: I (Basic) II (Tuicky) SP, of 45 oranges = 40 Sale Price + purchase/sale CP of 45 11 = 40 = 50 [but of used 40 and Ame d'at (same (29 \$) and Sh of 45 oranges = SOX 1020 = 60 F : 60 र में वर्च पड संले Puice 80 of 1 = # of-d us aty 120 80 3/4 24 = # d=d = 45 x24 40 ₹ # - 30 24 = A' - 30 x24

MARKED PRICE | LISTPRICE | TAGPRICE | LABELLED (3 PRICE) M.R.P | Frint Puice PRICE PRICE PRICE

$$D\% = \frac{D}{mp} \times 100$$

Selling Puice (S.P.) = $m.P. \times (100-D.1.)$

Note: - discount is always given by Spopkeeperand if no discount > mp = SP

MARKUP% MARK UP = MP-CP Note: - MARK UP % is always calculated on cost Ruice. MARKUP NO = MARKUP X100 eg CP = 100, MP = 150 > MARKUP = 50% # Relation Ship b/w CP, SP &mp 3 markeup CP -> Profit/Loss-> SP and D = 25% # let Polo = 20010 00 CP x (1.20) = SP (1) also mp * (.75) = SP __ (v) from (1) and (2), we get

CP (1.20) = MP (. 75)

