Profit 1. = Profit x 100

Ex Asha buys a certain no. of orange at 12 per Reg and the same no. of 18 per Rs 9. If she sells them ad 18 per Rs 15, does she gain or lose and by what 7. ?

Lest Asha buys & orange at 12 per 9.

(-) $\times \times 9 + 2 \times 9 = \times \times 3 + 2 \times 1 = 2(3+2) = 5 \times 12$

S= 22× 15= 2×15= 5x

badig 1/2 = 2x/2-2x/4 × 100

- 100 1 = 33/3 1.

Wasim storted a business with R 25,000 and after 4 months. Waquar joined him with Rs 60,000. Waim received Re 54,000 including 10% of the profits are commission for managing the business. What amount did Waquar receive?

25000×12 = 5 ×12 = 5.

0.9PX5 + 0.1P= 58,000

2 b = 28000 = 130,000.

Then Maquer received = 1,30,000-55,000=72,000

Ex A started a business with Rs 40,000. After 2 months B joined him with Rs 60,000. Cjained them after some more time with Rs 1,20,000. At the end of the year out of a total profit of Rs 3,75,000 c get Rs 1,50,000 as his share. How

A: B: $C = \frac{40 \times 12}{60 \times 10} = \frac{24}{30} = \frac{4}{30}$

Then, $\frac{150}{375} = \frac{6}{15} = \frac{2}{5} = \frac{2}{912}$

= 18+2x=5x

72=61.

Ans -> 6-2= 4 months.

Ex The working partner of a buinew gets as his commission 101. of the profits left after his commission is paid. If the working partners commission is Rs 39000, then, find the total profit.

(P-30,000) X 0.1= 30,000 =) P= 3,30,000.

Stocks & Share: -

Fore Yalue/ Par Value

Market value -> Rate at which share is bought or sold in the market

Market Yalue & Face Value Premium
Market Yalue & Face Value Discount

Dividend is always calculated on Fore Value. 5% stock -> Rate of reducen is 5%. Ex What is annual income from Rs 21,500 invested in 3% stock ad 7.5% premium? 21,500 x3 = 600. Ex Which of the following is a bester investment - 4% stock $\frac{4}{84}$ x100 = 100 $\frac{8}{128}$ x100 = 200 - 100 100 > 100 Hence 8% is bedies. Ex A man owned Rs 25,000 worth of 6% stock. When it was quoting Re 228 he sold it and invested the proceeds in 7.5%. Stock quoting at Rs 135, so that his annual income doubled. How much money he was left with or how much more money was he required to bring in? No. of stocks = 25,000 = 250. Annual income > 250X6 =1500. Sold values 250x 228 = 57,000 No. of stocks required for double annual income = 3000 J. R. = 400. They 5/4999 400x 135= 5,4,000 He will be left with = 57000-54000= Rg 3000.

Ex A person inverts Rs 19,400 in 5% stock at 97. He then sells it when it is quoting Rs 104. He then reinverts this money in 4% stock at 100, which he sells when the stock is quoting at 105. Find the overall profit of transpression.

19400 - 200 stocks.

97

1400 Poolyt

20800

20,800 - 10H silocks

10HX 208×105= 21,840

10HX 208×105= 21,840

: Overall profit = 1400+1040 = 2440.

Ex A man invested hs 17,400 in 6% stock at 13% discound What is his yield percent approximately?

1.4 2 1.68.9 = colx 2 4.1

Ex A student appears for 4 papers english, Maths, Physics,
Chemistry, maximum marks for which are in radio
1:1:2:2. His marks are in radio 4:8:13:15. If he got
80% of total of max. marks, in how many papers did he
get more than 80%?

424 8x+ 13x+15x = 0.8 T+T+2T+2T

\$\frac{40x}{6T} = 0.8=\frac{4}{5}\$

 $\frac{7}{7} = \frac{4}{5} \times \frac{6}{40} = \frac{6}{50} = \frac{3}{25} = \frac{197}{197}$

Ans > 2.

-	
-2	
E4	In any month, Horish debosits my and ny of the closing
-	balance of previous month. If his balance at the end of
-	March (after the withdrawal) is the same as his balance as
•	the beginning of Jan (before defosit), which of following is
	True?
•	(a) g < m < 1 (b) m=n (c) m>n (d) m < 1/2.
•	$A \left[1 + \frac{100}{m-n} \times a\right] = A$
-	=> 1+ m-0 = 1
•	100
•	\Rightarrow $m=n$.
3	
S. S.	Investment of Rs X for max. reduces
	(i) Investment in mutual fund of X Ital. If a vise occurs
	in stock market, he would get 87. return. If a fall occur
	in it, he would get -5% redurn.
	(i) Investment in Y. If rise occurs he would get -47. return.
	If a fall occurs, he would get 3% return.
-	ciii) Investment in bonk which assured 0-157. return.
	- principal in sweets of our control of the same of th
-	Leds assume X.1. in is and Coo-x) 1. In Y.
-	A TANK MAN DAMENT
**	XX 8 + (100-x) -4 - XX -5 + (100-x)x3
•	
•	> 8x-400+4x= -5x+300-3x
•	=) 20x=700 =) x= 35%
-	
-	Reduced a 11 months Tile of 3KV. XX 1 65V. X -4
0	Redurn > 1 marked rise > 351. X = + 651. X = 7
	= 2.8-2.6
•	= 0.2%
-	-: Greatest assured redurns 0.21
	- Strategy + 35% in do + 65% in dis

Ex In any month, Horish deposits my and ny of the closing balance of previous month. If his balance at the end of March (after the withdrawal) is the same as his balance as the beginning of Jan (before deposit), which of following is True ? (0) D < m < 1 (p) m=0 (c) m > 0 (d) m < 1/2 A 1+ m-n x] = A => 1+ m-0 = 1 => m=n. Ex Investment of Rs X for max. reduce (i) Investment in mutual fund of X Ital. If a vise occurs in stock market, he would get 8% return. If a fall occur in it, he would get -5% redurg. (11) Investment in Y. If rise occurs he would get -47. redura. If a fall occurs, he would get 3% return ciii) Investment in book which allura 0-15% return. Lets assume x.1. in is and (00-x) 1, in Y. XX 8 + (100-x) -7 = XX -5 + (100-x)x3 J 8x-40044x= -5x+ 300 -3x e) 201=700 =) x = 35%. Redurn > 1 marked rise > 35% X & + 65% X = 1 = 2.8-2.6

= 0.2% = ;

.. Greatest assured return = 0.21/

- strategy + 35% m do + 65% in (i)

//_

A shopkeeper normally makes a profit of 20%. In a certain transaction, he weighed 900 gm instead of 1 kg without his knowledge due to an error in weighing scale. If he charge less than 20% tell than what he normally charges, what is his actual profit or loss 1/2?. Profit 1 = 6 x100 = 201 = 6 37. A trader cheats both his supplier and his customer by wing faulty weights. When he buys from the supplier, he takes 18% more than the indicated weight. When he sells to his customer, he gives 10% less than the indicated weight. If he sells at his 'cost-price' (i.e. charges the cost price of the indicated weight), what is his profit? ? Leds assume - CRS/Kg. .. Cost prings SI.1. cost poire of 0.9 kg = C x 0.9 = 001x 1 x 100 =

Led the supplier sell his goods at Rosooky. While buying the trader takes 1100gra from supplier for Rs 100 and while selling he gives only 900 gm and charges ke 100 1100 -> 100 900 -> 100 × 900 = 900 Profid 1. = 200 - 22 21 Ex A trader cheats both his suppliers and traders his continuer by using false weights. While buying from his suppliers, he takes 10% more than the indicated weight. When he sells to his customer he gives the customer a weight such that if 10% of that is added to the weight the weight claimed by the trades is obtained. If he charges cost price of the weight that he claims, find his S -> 100 1100 -> 100 100- 10000 121 ×100 2100 X100 = 21%.

/ /

EX

There are 2 numbers such that if both of them are individually increased by 5 and then by the same 1. as they were increased in 1st instance, each would result in 36. Final the difference b/w numbers.

M (UAR) X [+ 7/x100] = 36

0+5+5

=> U+R+ (242) 200 = 36

=> n2+469n+2500=369

(n+5) (1+5) = 36

> n+ 5+57 25 -36

7 n2+25 +-26=0.

-> n2-26n+25=0 > n=25 001.

Ans + 25-1=24.

A motorist wer 12% of his fuel to cover 18% of his total journey for non-city driving conditions. He knows that he has to cover another 24% of his total journey in non-city driving conditions.

What should be the percentage decrease in fuel efficiency for city alriving over non-city alriving so that he just complete his entrine journey without a refill?

367. -> 547. = Efficient = 1.5.= 3/2.

The factory equipment cost a certain factory Rs 5,00,000. If the equipment depreciates 15% value in 1st year, 13.5% in next year, 12% in 3rd year an and so on . What will be its Value as the end of 10 years (all is applying to the original 12+ dx (1.2) = 4.2 200,000 - (200000 × (100+ 100+ 100+ 100+ 100) = 5,00,000 - 500000 × × 165 39 = ROODOD X4 = 48488 32,0000 - 8.4200 & Fresh grapes contains 90% water by weight whereas dry grapes contain 20% water by weight. Rom buys 64 kgs of Freih grapes for Rs 160. At what price should Ram sell the day grapes to get a profit of 204. ? Freeh grapes -> 64Kg x 0.1= 6.4Kg -> Re 160. Per Kg -) 160 = 160 X10 = 25 Profit 20% S.P. 7 25x = 30 1001. -> 30 80% -) 24.

Ex Ramu manufactures ceramic cubs. On any day Ramu manufactures as many cubs as the price of cubs. Everyday Ramu sells all of his cubs at a profit of Rs 10/cubs to at the each of the

day he make a profit of 5%, they how much profit did he make by the end of everyday? Cost price = CXC S. P. = ((C+10). Then: - c(c+10) - c2 x100=5. \$ C+10-C = > => 10 = > 0 C = 200. · Profit = CX10 = 2000 Ex A person buys some tomatoes at 5 for a rubee and an equal no. at 25 mp each. He sells them lat a rate of 9 for Ro 2 but incurs a loss of Rs 5 in the transaction. How many tomatory alid the person purchase ? 20 C= 2x20+2x25 = 45x. S= 2xx00= 400x They 45x-400x- 500 J 5x = 500 7 = 900. Ans + 2x= 1800.

X, Y, Z invest in a partnership. The amounts that X, Y, Z invest are in the radio of x: y: Z and their profits are in the ratio of z: y: 7. The radio of theire periods of invest is The capitals of 4 partners A, B, C& D are in the radio of 7:8:6:5. A's and I's capitals are there in the business for entire year. If each postness kelpt his money invested in The business for a period which is more than 6 months, and B& D together get 11/267 of total profit, then for how many years months is D's carpital Invested ? Capital A/B/c/D = 7/8/c/5. 6X12 84+ 72 + 800 -156 84472+8x454 1264 8×424 => 8x+5y+156=267 3 8x454= 111 => 1 = 111-85

A person inverts some money in a 4% stock at a 10%.

discount He gained Re 300 on selling the stock when it was

quoting at 10% premium. This money was invested in a 3%.

stock at Rs 75 and sold at a price of Rs 80 per stock. How

much profit/loss did he make over his initial investment?

No. of stocks = 300 - 2015

Initial inventment = = 30 × 90 = 2700 1350

No. of stocks -> 1650 = 22.

SP = 22×80= 1600, 1760 Ans + Rs 410 Profit.

Ex A, B, C & D are 4 friends. A purchase a bicycle for & 100.

He sells it to B at a certain gain of B in turn sells it for

Re 1500 to C who in turn sells it to D. The gain of A, B and

C are in AP. Had is sold the bicycle to D directly for the

same rate for which C sells the cycle, then he would have

made a profit of 62% y.

cis What profit did B make on selling the cycle to C. ?

 $AD = X \left(14\frac{5}{12}\right) = XX/3 = 13X$ $X\left(1+\frac{5}{152}X/3\right) = D$

 $\frac{1000}{X - 1000} + \frac{13X}{1200} = 5X + \frac{X}{1200 - X}$

=> X - 1 + 13X - 1 = 21500 x - 2.

 $=\frac{x}{1000} + \frac{13x}{12000} = \frac{3000}{x}$

 $\frac{7}{7} = \frac{1320}{1320} \times \frac{3000}{1320}$ $= \frac{1320}{1320} \times \frac{3000}{100} \times \frac{1320}{100}$ $= \frac{1320}{1320} \times \frac{3000}{100} \times \frac{100}{100} \times \frac{1320}{100}$

7 1020 X 25X - 3000

=) X2= 3000×15×1000 = 15×15×107.

=) X = 1200.

(i) 1500-1200= 300

(ii) What profit did C Make?

1200×13 - 1500

= 150×13-1500

= 150x3= 450. A

Ex Is the SP of an article more than CP, given that article is sold at a discount of 20%?

(i) M.P. of article was 30% more than CP.

(ii) Had the article been sold at discount of 40%, there would have been loss of RS 50.

From in MP=1.3C SP= 1.3CX 0.8 = 10 1.04C. From (i) PODO C- MPXO.6= 50 > MP - C-50 - 50 - 250 Then S.P= (350-250) X 4 = 40-200 = 40-200. Cas't say. Ex In a college election, only Vinod and Varma contested. The total no. of valid votes is 300. Who won in the elections? cis Among the voters whose votes are valid, 79% of PG voters and 43% of UEn voters voted in favour of Verma. (ii) Radio of PG to UG is 2:1. From in X X 0.79 + (300-X) 0.43. -> 129 - 00 800 XX36 == 129 - 9x < 150 .: Vigod won. From (in) No concluing.