CETATIE ALL BRANCHES

GENERAL APTITUDE

Quantitative Aptitude





Lecture No: 03

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Understanding Terms used in Topic



Concept of Profit Loss



Percentage concept in Discounts



Questionnaire on the Topic



O. The population of a village is 5500. If the number of males increases by 11% and the number of females increases by 20%, then the population becomes 6330.

The population of the female in the village is



2000





3000



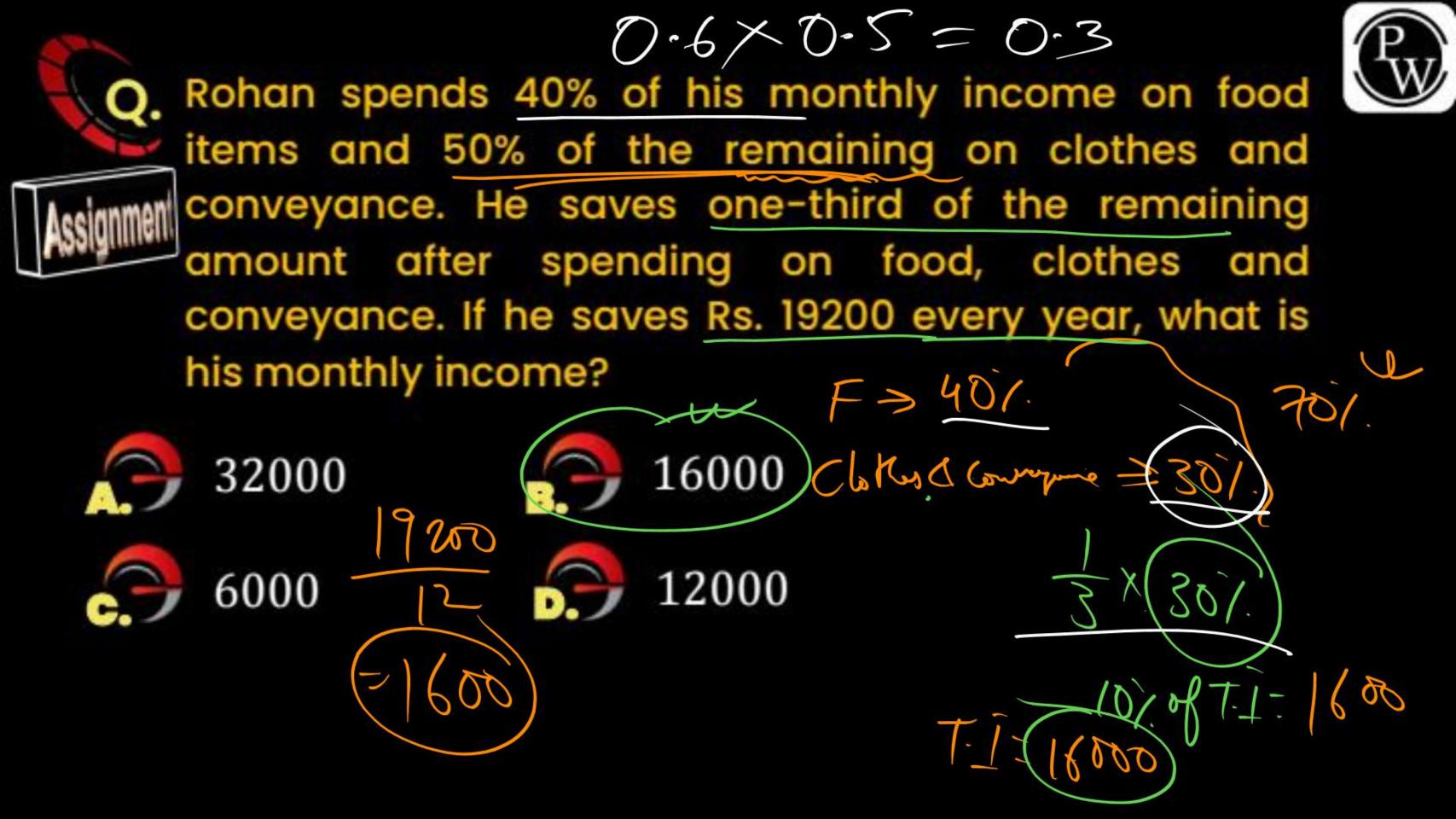
3500

$$\frac{(M+F=5500)\times 1.11}{1.11M+1.2F=6330} = \frac{2500}{0.09}$$

$$= \frac{2500}{0.09}$$

$$= \frac{2500}{0.09}$$

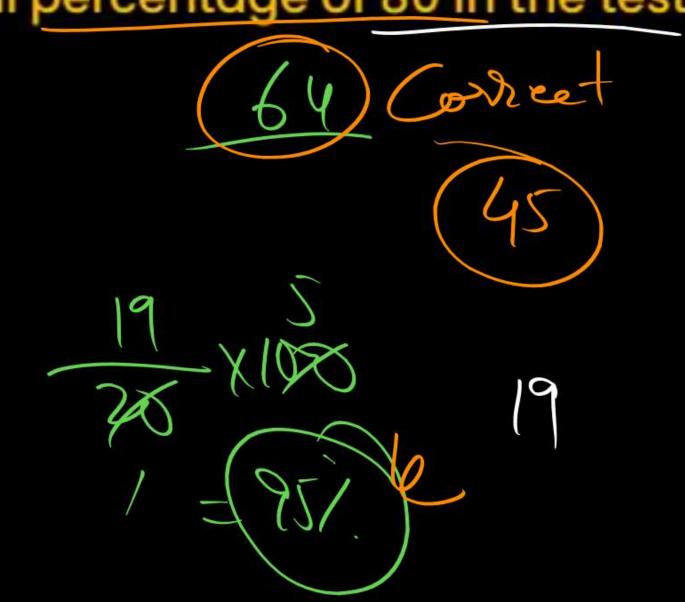
$$F = \frac{275}{0.09}$$

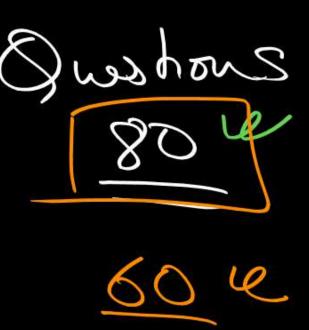




In a test of 80 questions, Santosh answered 75% of first 60 questions correctly. What % of remaining questions he has to answer correctly so that he can secure an overall percentage of 80 in the test?

86 × 80







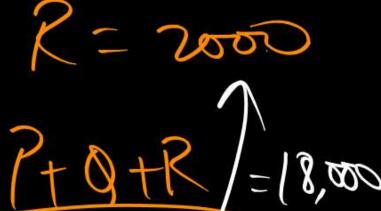
Q. 5% of income of P is equal to 15% of income of Q and 10% of income of Q equal 20% of income of R. If R's income is 2000, then What is total income of P, Q and R?

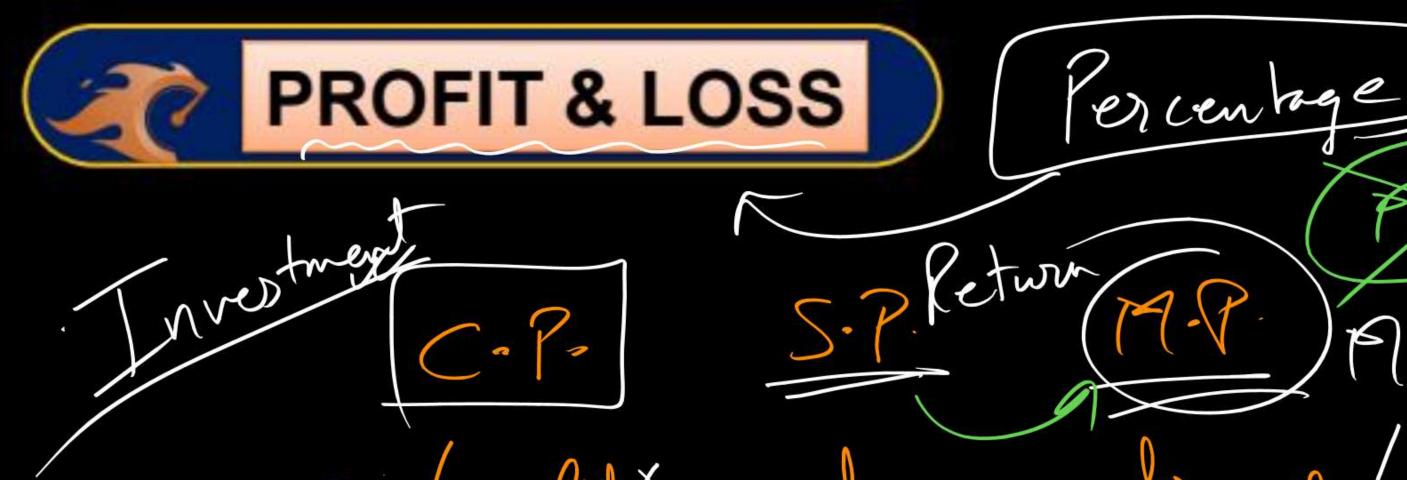












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List

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 $C.P \subset S.P \rightarrow Probit$ $C.P > S.P \rightarrow 1088$ $C.P = S.P \rightarrow Nlo P.NloL$



S.P. > C.P



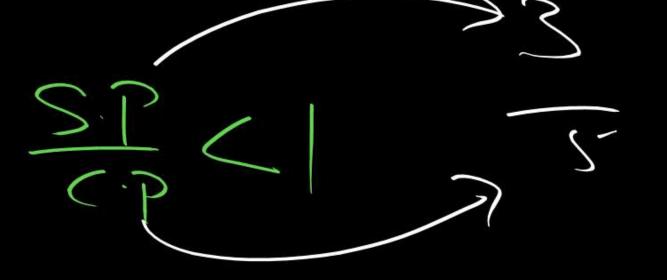




= Profit

S.P. < C.P.

= Loss



S.P. = C.P.

= No Profit No Loss







Profit or loss percentage is to be applied always to the Cost Price only.

Discount percentage is to be applied always to the Marked Price only.



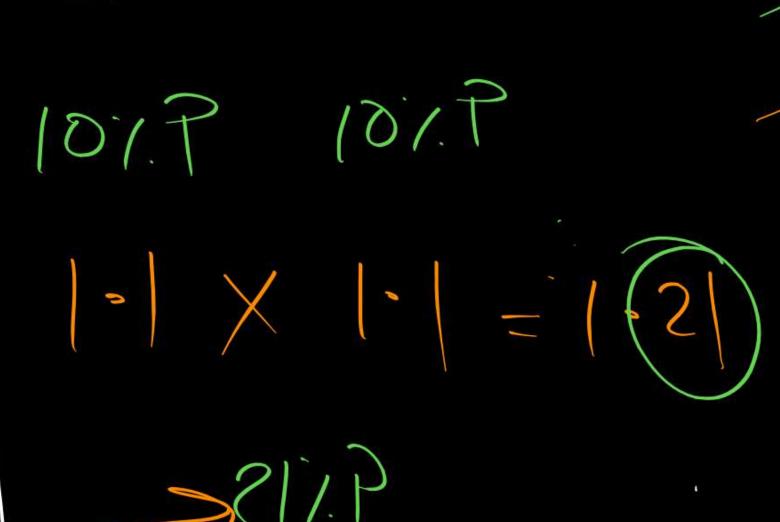


If selling price and cost price are in the ratio 5:4, then find the profit% or loss%.



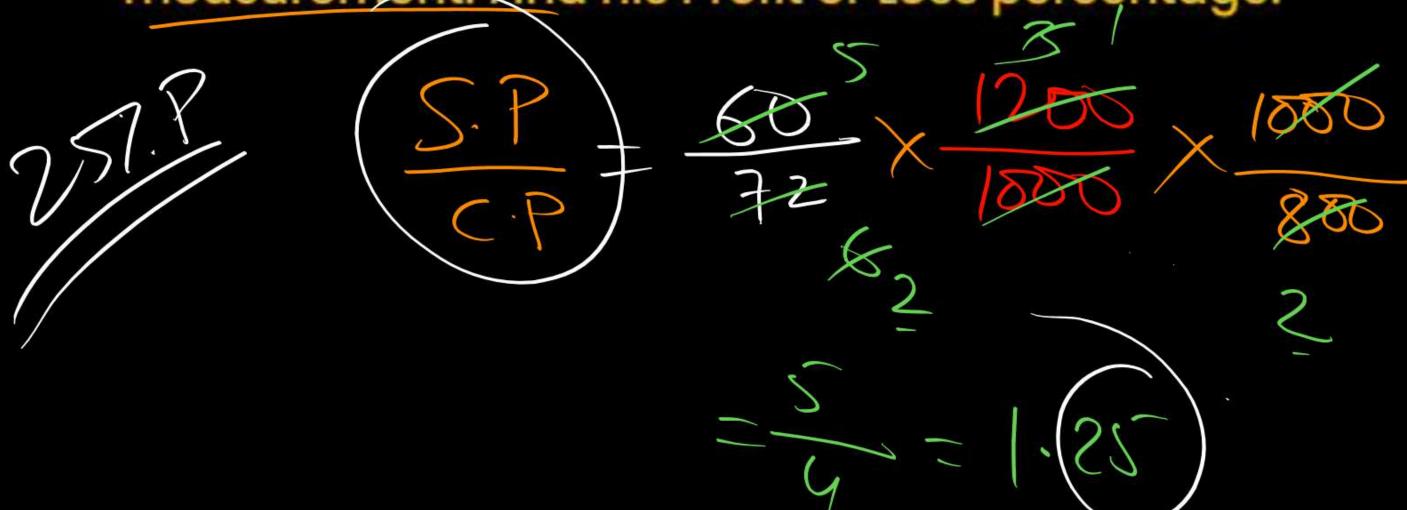
A Fruit seller purchases 11 orange for Rs. 10 and sells 10 orange for Rs. 11. If he follows the same process, then, find his profit or loss%?

$$C.P = \frac{10}{11}$$
 $S.P = \frac{11}{10}$
 $S.P = \frac{11}{10}$
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 $S.P = \frac{11}{10}$





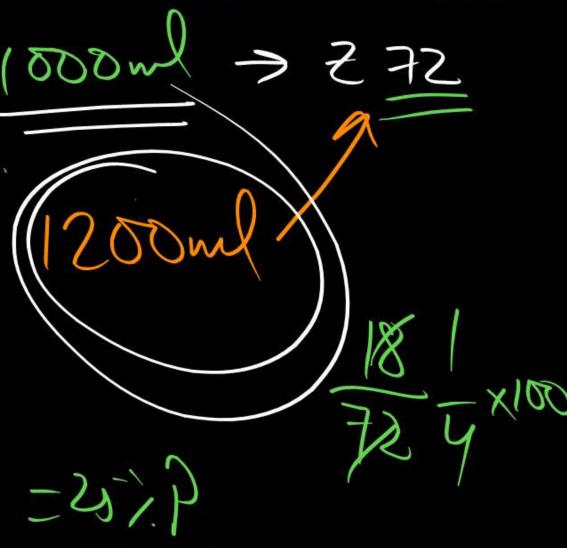
A milk vendor purchases milk at Rs. 72/ litre, and sells at Rs. 60/ litre For every 1 litre milk he adds 200ml. of water. While selling milk he cheats 200ml. in 1 liter measurement. Find his Profit or Loss percentage.



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Denoud Deliver 1000 Deliver 1500 Deliver







A cloth merchant purchases cloth at ₹80/meter and sells at ₹100/meter. As a festive offer, he gives 50% extra free on every demand. Find his proft% or loss%.



8.33% Profit



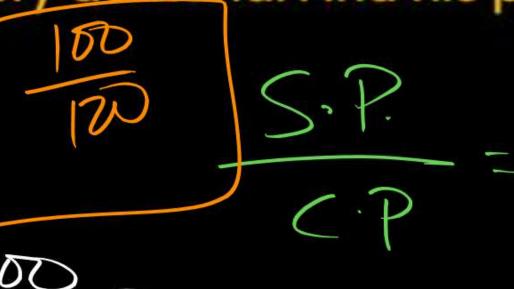
25% Profit



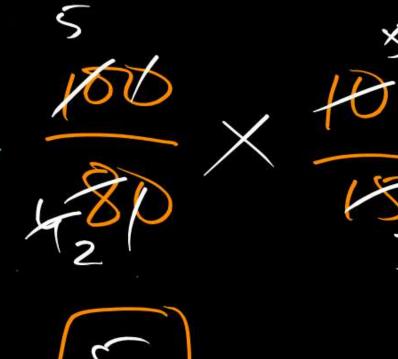
83.33% Profit

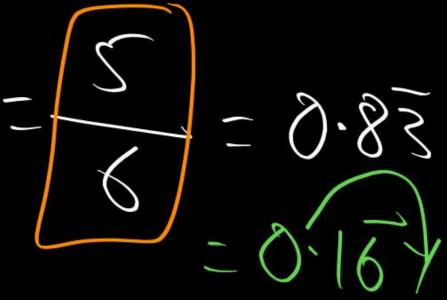


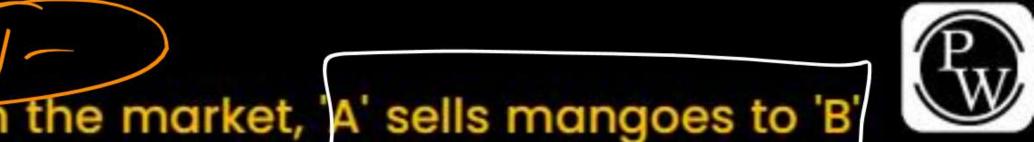
16.66% Loss











Due to downfall in the market, 'A' sells mangoes to 'B' saying "FOR EVERY 12 MANGOES, COUNT AS 8". Due to overnight demand, 'A' took his mangoes back from 'B' saying "FOR EVERY 8 MANGOES, COUNT AS 12". Find the profit or loss percent of 'A'.

1-80000000 0-44444444 5-5555555 28 X 12/3

1





Note:

A trader may sometimes have multiple profits or losses simultaneously.

This is equivalent to having multiple changes and so all individual changes are to be multiplied to get the overall effect.



Q. Sunidhi bought 15 apples for Rs.10 and sold them at the rate of 12 apples for Rs.12. What is the percentage of profit made by her?

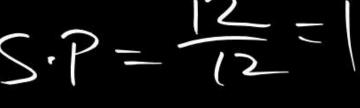




100%



1:- 1



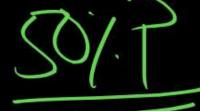


150%





125%







Q. A shopkeeper advertises for selling cloth at 4% loss. However by using a false meter scale he actually gains

25%. What is actual length of scale?



76.8 cm



77.8 cm



74.8 cm



75.8 cm

$$\frac{\lambda}{26} = 1.52$$

Q. A man sells an article at a profit of 20%. If he had bought it at 10% less and sold it for Rs. 18 more, he would have gained 40%. Find the cost price of the article.

$$|.2c?+18=|.26c?| = |.2 = |.2 = |.2c?-C|$$

$$0.06c?= |8|$$

$$0?= |8|$$

$$0?= |8|$$

$$0.9c.?= |.4-0|$$

$$0.9c.?= |.4-0|$$



Discounts:





Tomustous's Session





A trader marks his goods 12.5% above the cost price. His spring balance shows 950 grams for every kilogram. If he gives a discount of 12.5%, then what would be his gain or



3.61% profit

loss percent?



14.28% profit



14.28% loss



10.67% profit



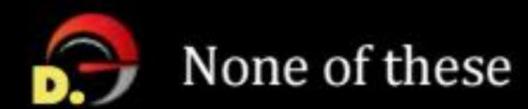
An article was sold at a profit of 20%. If both cost price and selling price are Rs.100 less each, then magnitude of the percentage of profit would have been 4 percentage points more than that in the first case. Then the cost price is













5kg of ghee was bought by Venu for Rs.300. One kg from spoilt. He sells the remaining in such a way that on the whole he incurs a loss of 10%. At what price per kg does he sell the ghee?







₹45.70





₹46.60



