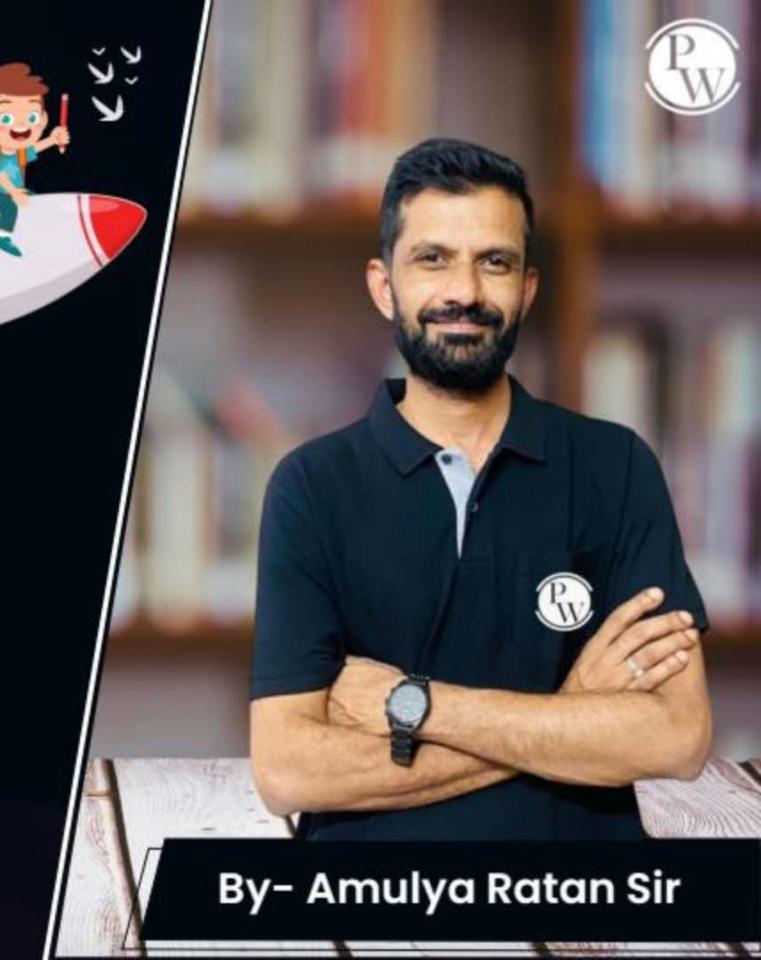
GATE ALL BRANCHES



General Aptitude

QUANTITATIVE APTITUDE



Lecture No.- 06

Recap of Previous Lecture











Topic

Profit & Loss



Topics to be Covered











Topic-1

More on Profit Loss (Discount)

Topic-2

Mixtures & Alligation

Discounts:

Pw

Marked prie Parentages

SP





#Q. By giving a discount of 25%, a shopkeeper gains 25%. If he gives a discount

of 40%, find his gain or loss%.

C-P





#Q. A trader gains 20% by giving a discount of 20%, if he gives a discount of

25% then find his P% or L%.





#Q. An article was sold at a profit of 20%. If both cost price and selling price are ₹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



$$\frac{2.7}{5.7} = 1.2$$

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Assignment
$$1.2C.7 - 100 = 1.24CP.$$

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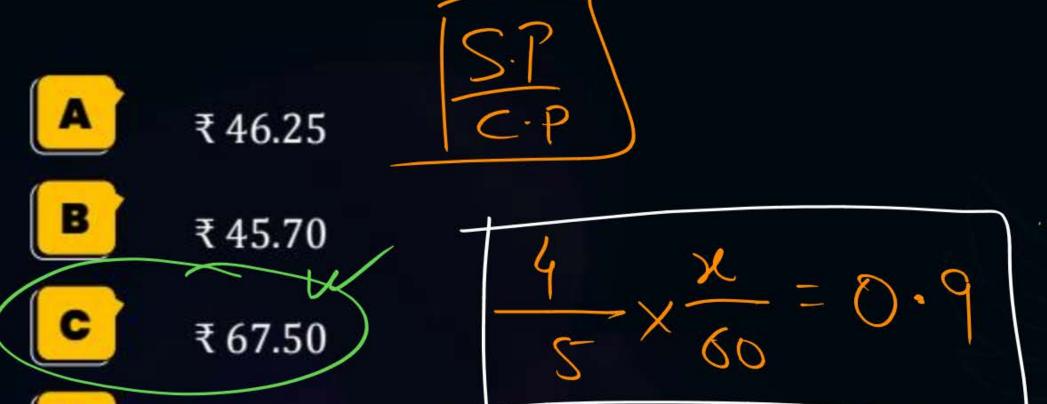
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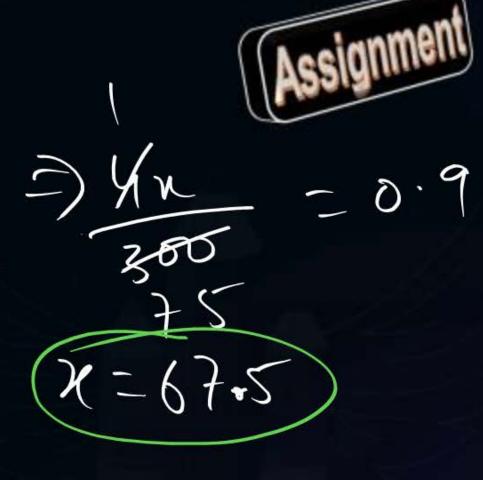




#Q. 5kg of ghee was bought by Vinod for ₹300. One kg from spoilt. He sells the remaining in such a way that on the whole he incurs a loss of 10%. At what price per kg does he sell the ghee?



₹ 46.60



Puzzle:



#Q. A function hall was filled with 100 guests including men, women and kids.

A - 40 100 biscuits has to be distributed among these guests, such that each man

gets 4 biscuits, each woman as 3 and each kid gets 1/2 biscuits. How many

c - 0.2 men, women and kids are there in function hall?



M-500 39 W-500 39 W-500 39 W-500 39

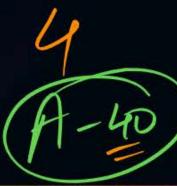
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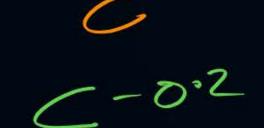
W-6

K-84

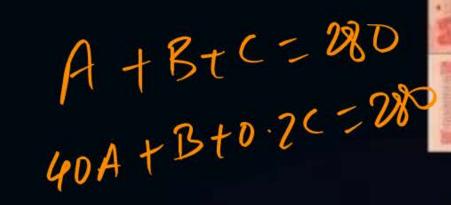
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Puzzle:







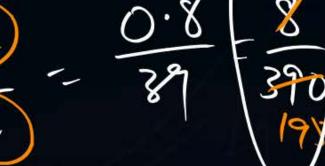








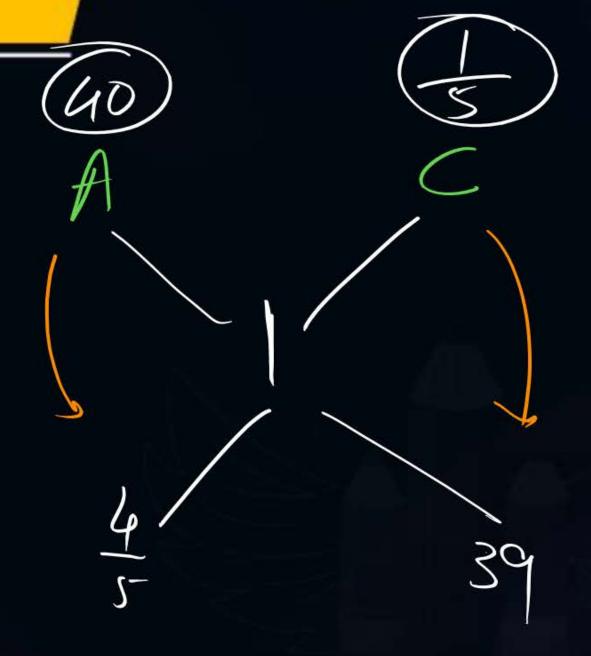
AL Number of Product

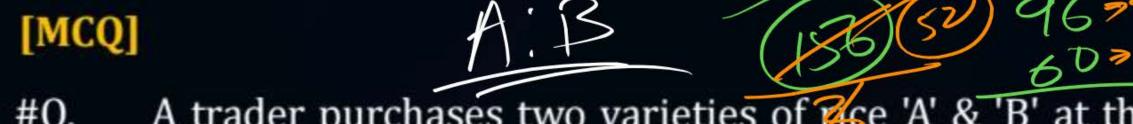


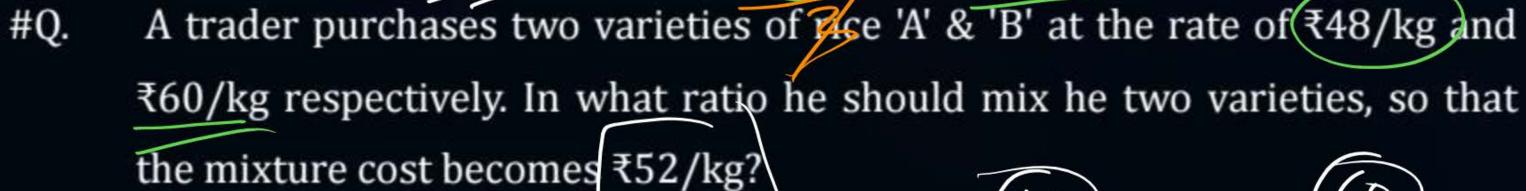
A+B+C=40A+B+0.26



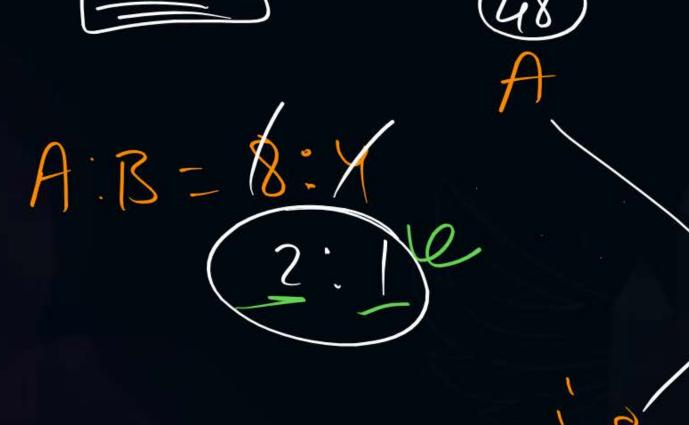
Mixtures & Alligations











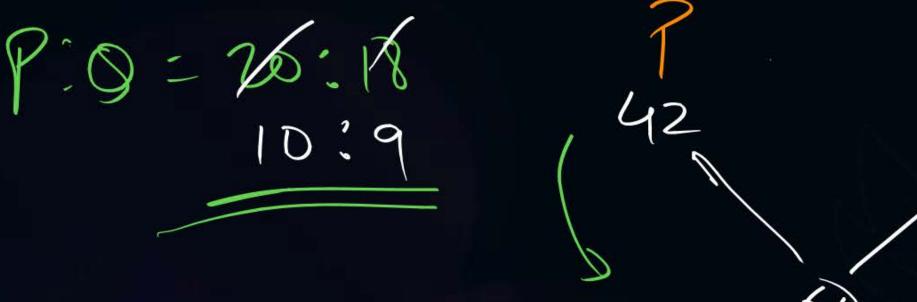


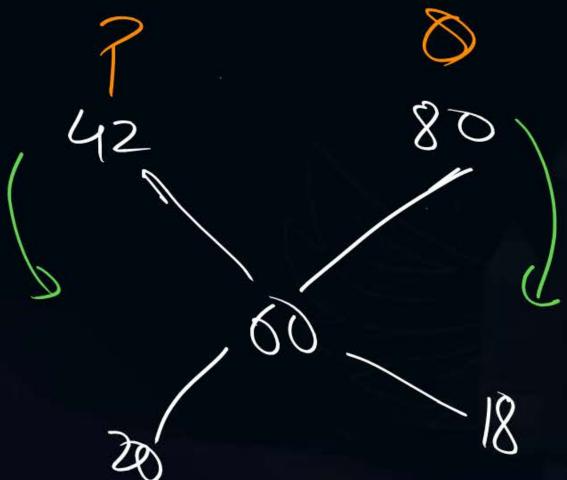




#Q. A trader purchases two varieties of Sugar 'P' & 'Q' at the rate of ₹42/kg and ₹80/kg respectively. In what ratio he should mix he two varieties, so that he

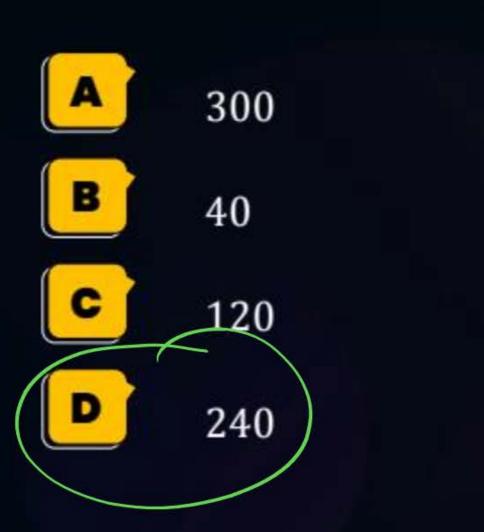
can sell the mixture at ₹78/kg by getting 30% profit?

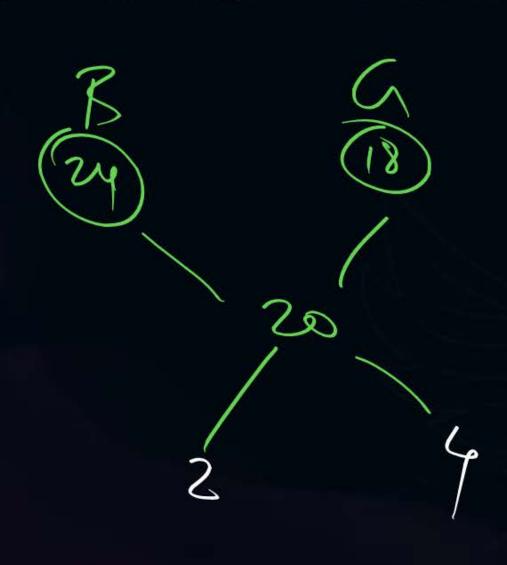


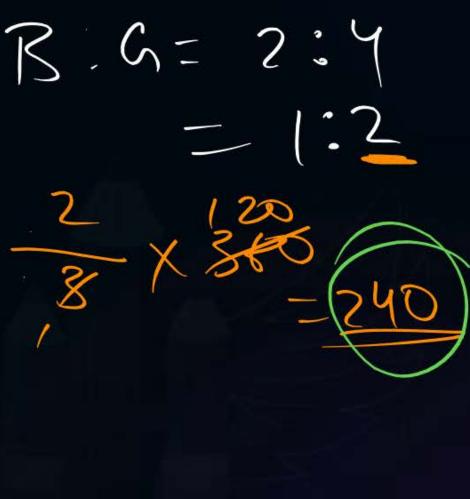


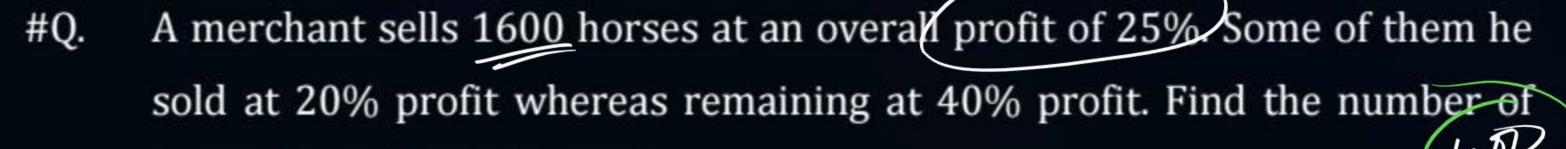


#Q. In a class with 360 students, the average age of all the boys is 24 years whereas average age of all the girls is 18 years. If average age of whole class is 20 years, then find the number of girls in that class.









horses he sold at 40% profit. 2017: 40/7 201. 400 1200 1240 300

- Pw
- #Q. In a mixture of 40 litres, the ratio of milk and water is 4:1 How much water much be added to this mixture so that the ratio of milk and water becomes
 - 2(3)
 - A 20 litres
 - B 30 litres
 - C 32 litres
 - 40 litres

- 7.1k
- 32 lit

- water 8 lit
- 32 = 2
- 8+x 3
- 96 = 16 AZR

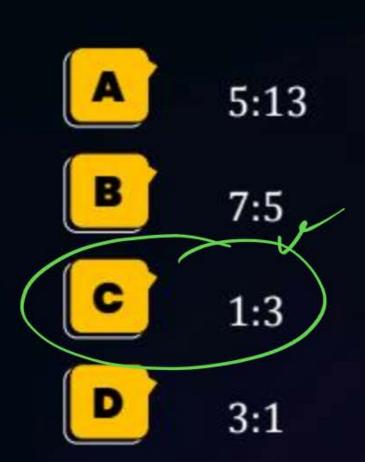


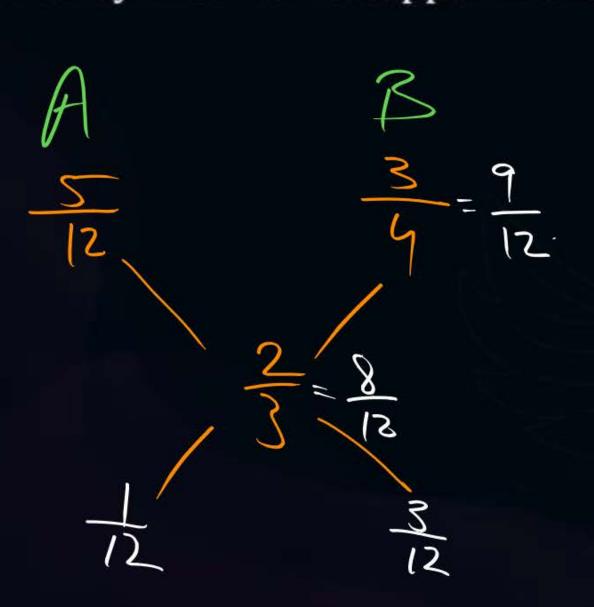
2/ 5 Miniwaly





#Q. An alloy A consist of iron & copper in the ratio 5: 7, whereas alloy B consist iron & copper in the ratio 3: 1. In what ratio these two alloys are to be mixed to form a new alloy with iron & copper in the ratio 2 1?

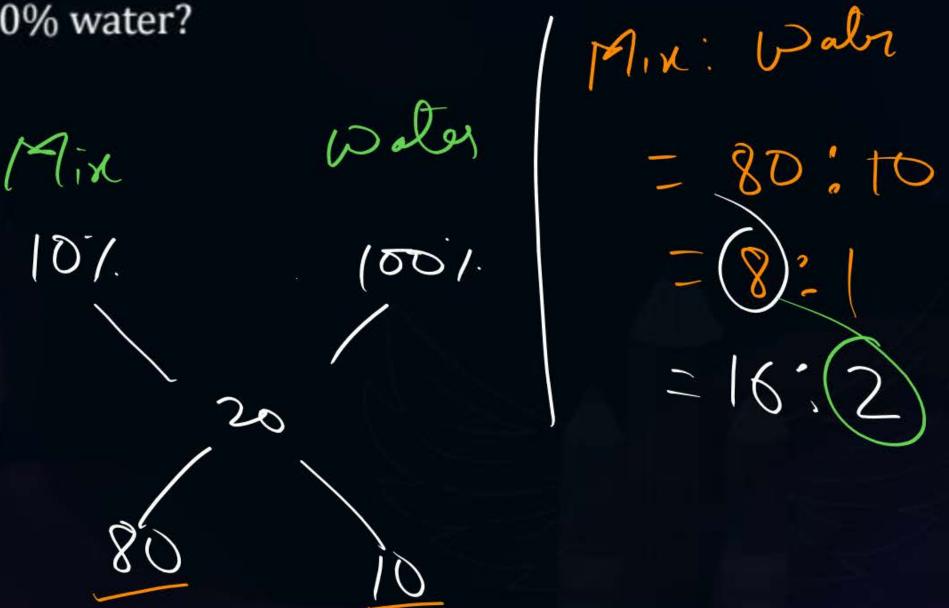






#Q. How many litres of water must be added to 16 litres milk containing 10% water to dilute it with 20% water?







#Q. A mixture contains milk and water in the ratio 5:1. On adding 5 liters of water, the ratio of milk to water becomes 5:2. the quantity of milk in the mixture earlier was:

A 16 litres

B 25 litres

32.5 litres

22.75 litres



#Q. In what ratio must a grocer mix two varieties of pulses costing ₹15 and ₹20 per kg respectively so as to get a mixture worth ₹16.50 per kg?

Assignment.

- **A** 3:8
- **B** 5:3
- **C** 7:3
- **D** 4:5



#Q. In what ratio must Ankit mix two varieties of sugar worth ₹20 per kg and ₹32 per kg so that by selling the mixture at ₹36 per kg he may gain 20%?

Assignment

- **A** 1:5
- 3:5
- 2:3
- 3:2



2 mins Summary



Topic

Mixtures & Alligations

Discourt



THANK - YOU