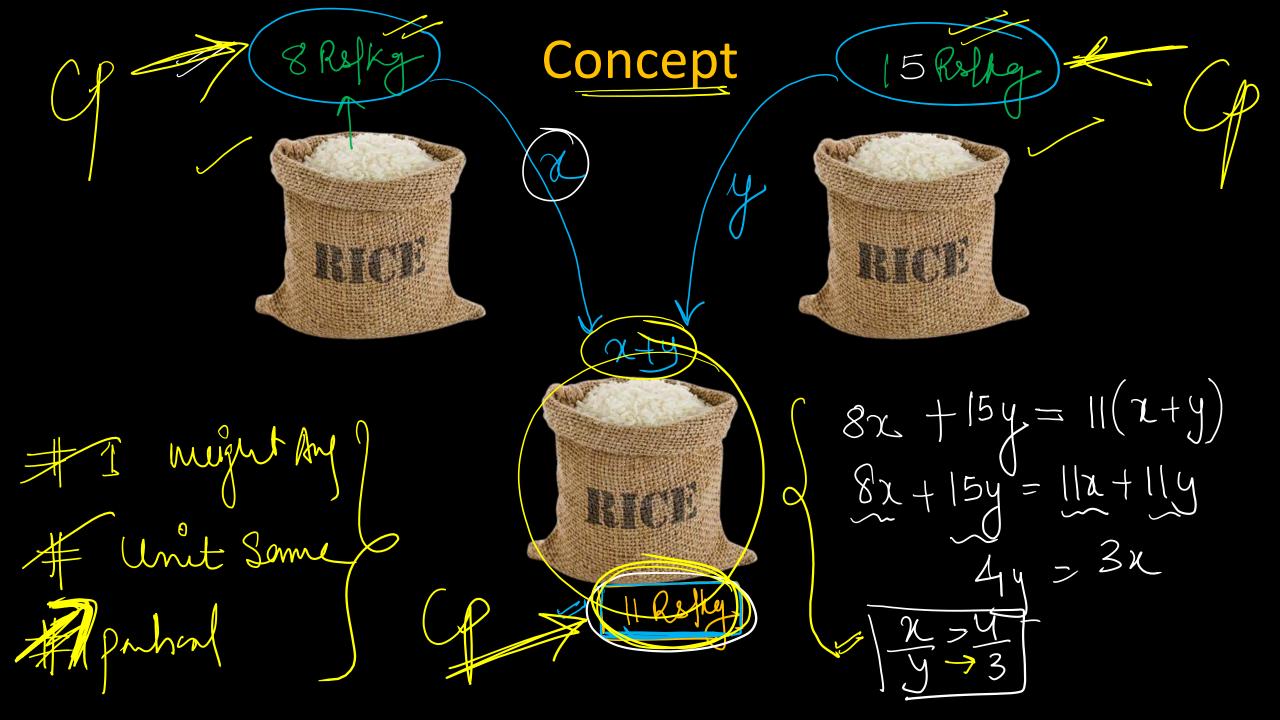
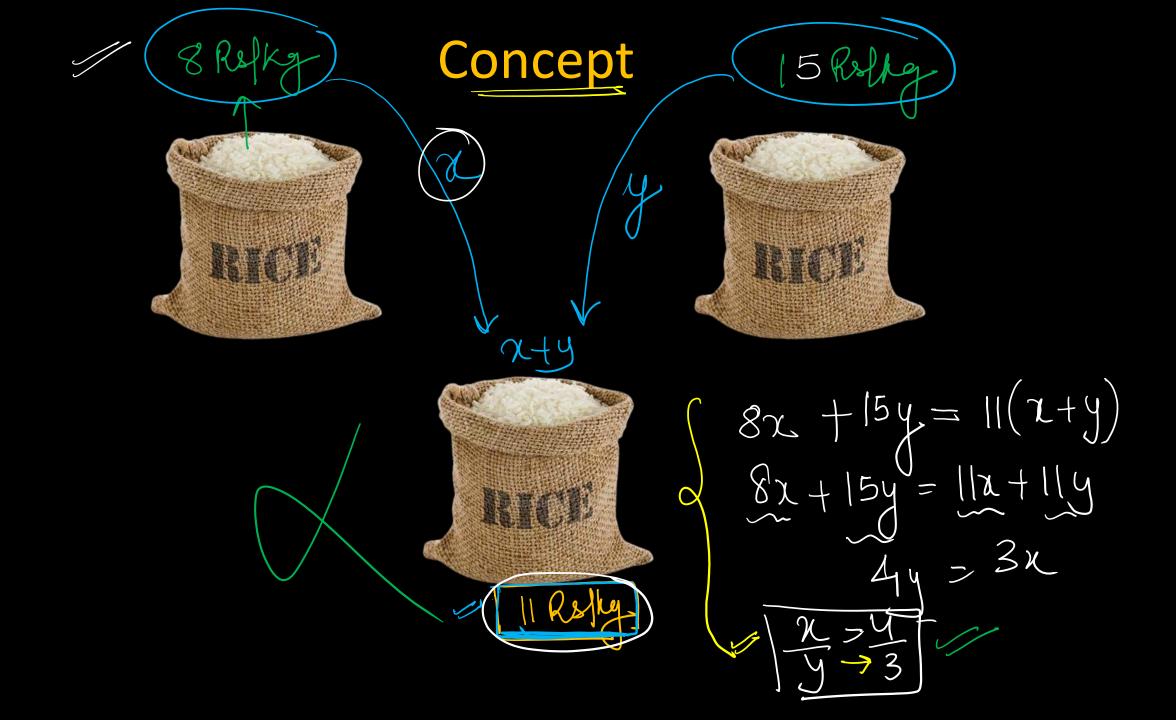


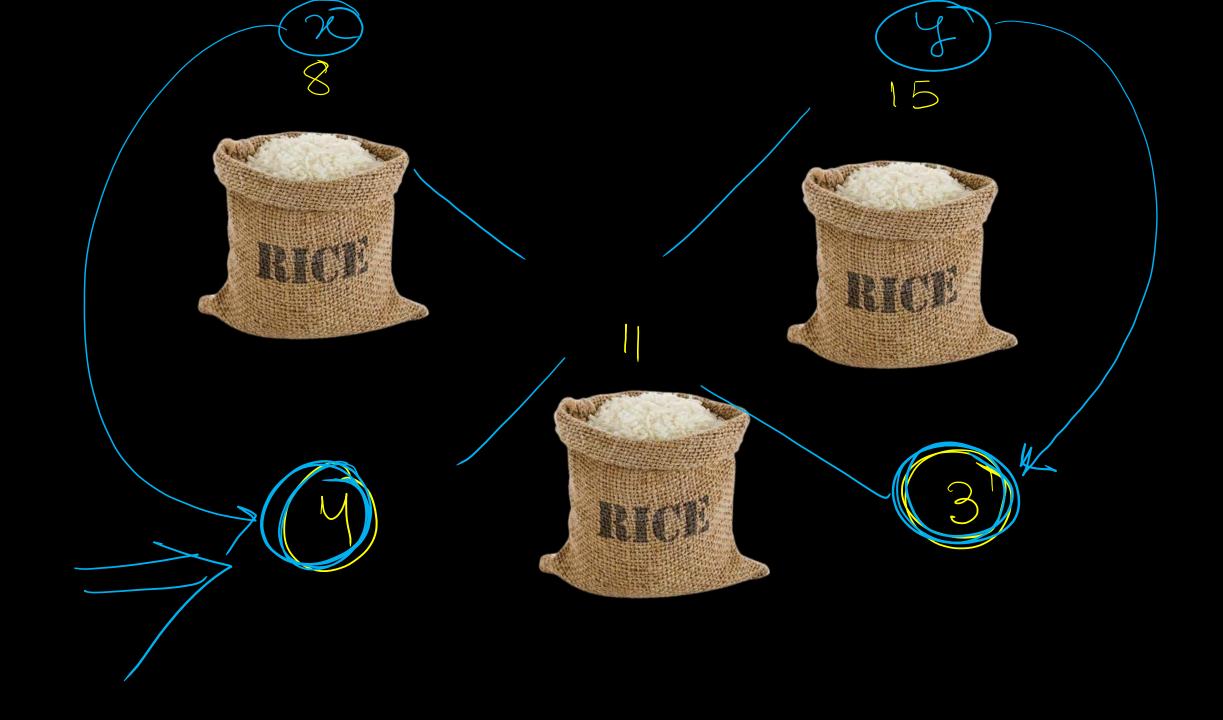
TCS / Other Placement & Competitive Exams







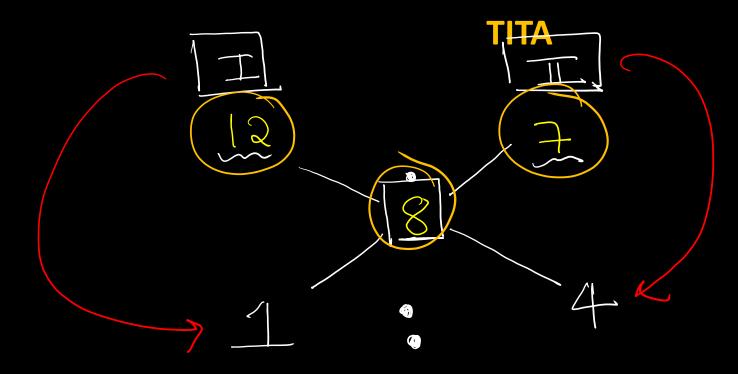




TYPE \_ 1



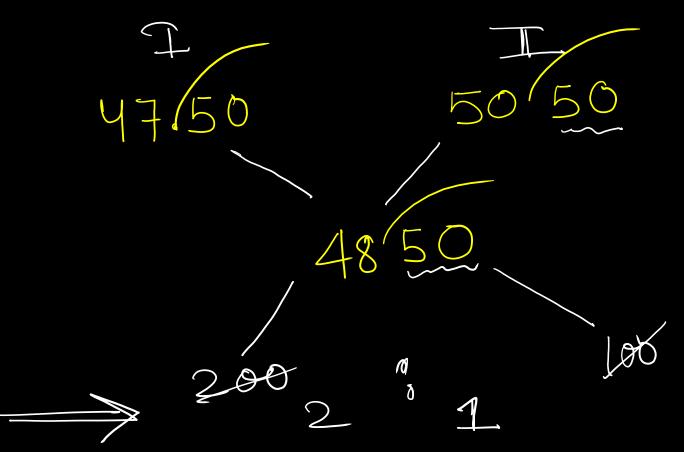
In what proportion must a grocer mix rice at Rs.12 a kg and Rs.7 a kg so as to make a mixture worth Rs. 8 a kg?



#### **Question2:**

In what proportion must tea at Rs 47.50 a kg be mixed with tea at Rs 50.50 per kg to produce a mixture worth Rs 48.50 per kg?

(A) 2:1 (B) 1:2 (C) 4:1 (D) 3:2



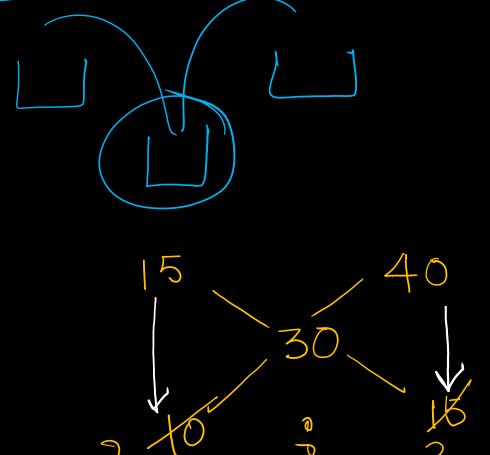
Q.3 The ratio in which two sugar solutions of the concentration 15% and 40% are to be mixed to get a solution of concentration 30% is:

(A) 2:3

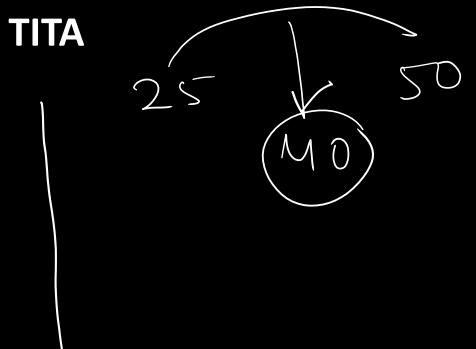
(B) 3:2

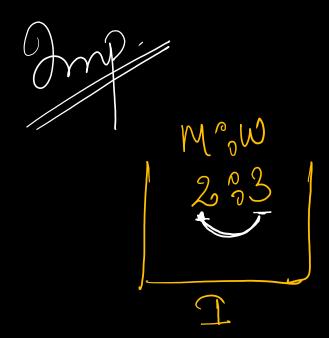
(C) 8:9

(D) 9:8



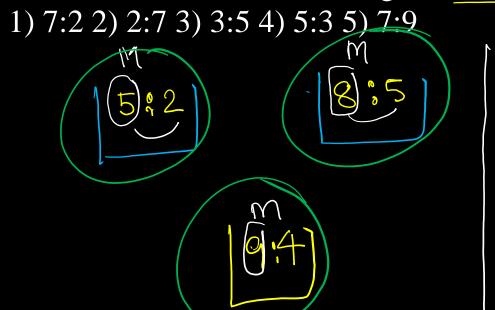
Q.4 In what ratio must 25% of alcohol be mixed with 50% of alcohol to get a mixture of 40% strength alcohol?





M",W 5°56

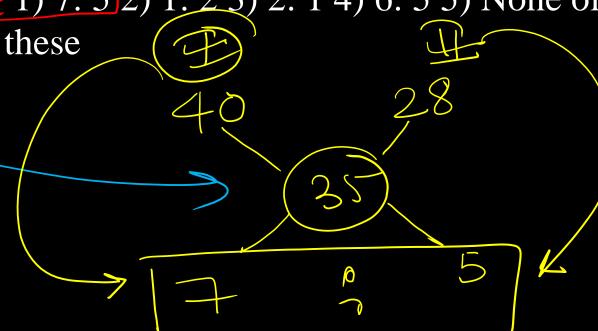
Two vessels A and B contain mixtures of milk and water. The ratio of milk and water in these two vessels is 5:2 and 8:5 respectively. In what ratio must these mixtures be mixed to form a new mixture containing milk and water in 9:4 ratios?



## **Question2:**

Two vessels A and B contain milk and water mixed in the ratio 4: 3 and 2: 3 In what ratio must these mixtures be mixed to form a new mixture containing half milk and half water? TCS Ninja

1) 7: 5 2) 1: 2 3) 2: 1 4) 6: 5 5) None of

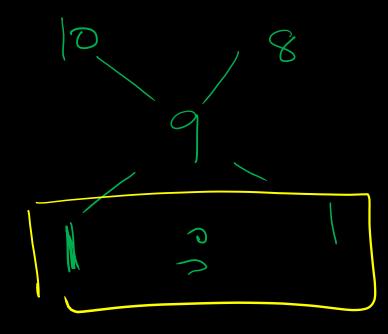


### **Question 3:**

In what ratio should two different types of mixtures containing, milk and water in the ratio of 5:1 and 2:1 respectively mixed to obtain a final mixture containing milk and water in the ratio of 3:1?

1) 7:5 2) 1:2 3) 2:1 4) 1:1 5) None of these







#### Question4:

Two vessels A and B contain spirit and water mixed in the ratio 5:2 and 7:6 respectively. Find the ratio in which these mixture be mixed to obtain a new mixture in vessel c containing spirit and water in the ratio 8:5?

A. 1:7

B.2:9

C.7:9

D.3:8

$$30 = \frac{3+4}{100}$$

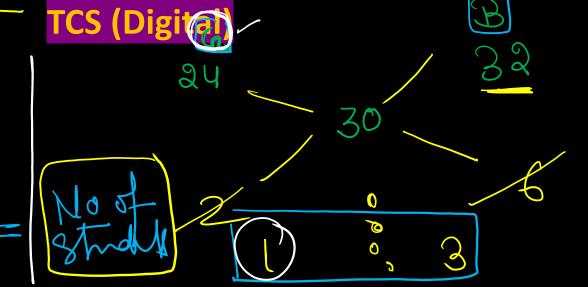
$$24 = \frac{c}{\chi}$$

$$32 = \frac{B}{(m-n)}$$

**Pre-assessment:** 



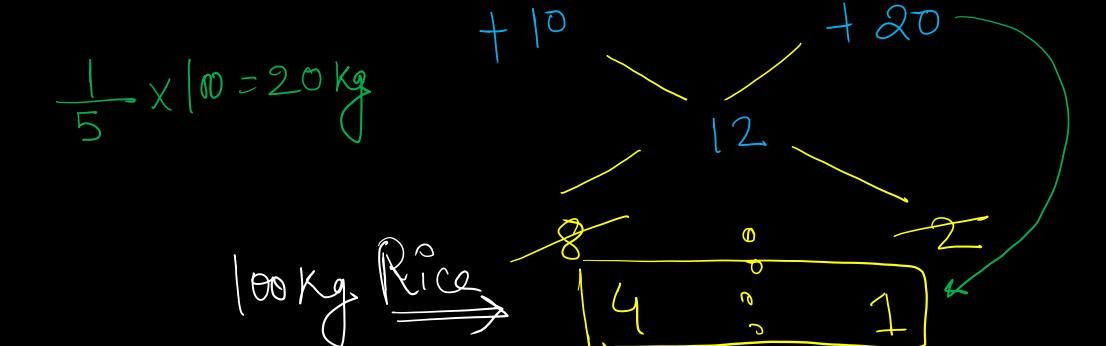
Q.1 In a class of 100 students, the average weight is 30~kg. If the average weight of the girls is 24~kg and that of the boys is 32~kg, then what is the number of girls in the class?





#### **Question 5:**

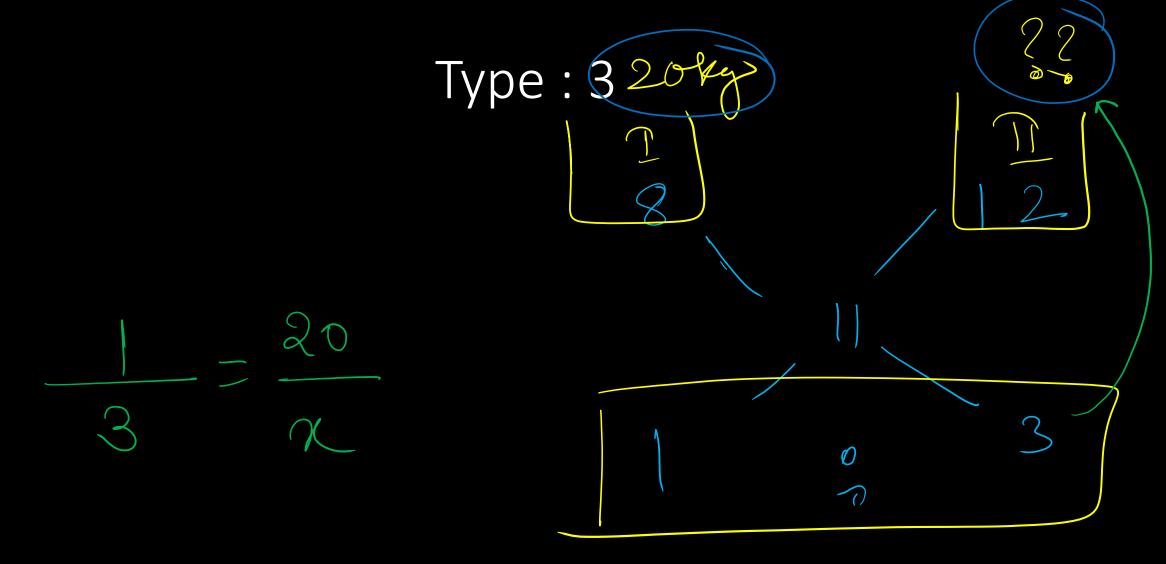
100kg rice partially sold at 10% profit. The remaining at 20% profit, if the total profit was 12% on this sale, how much rice did he sell at 20% profit??



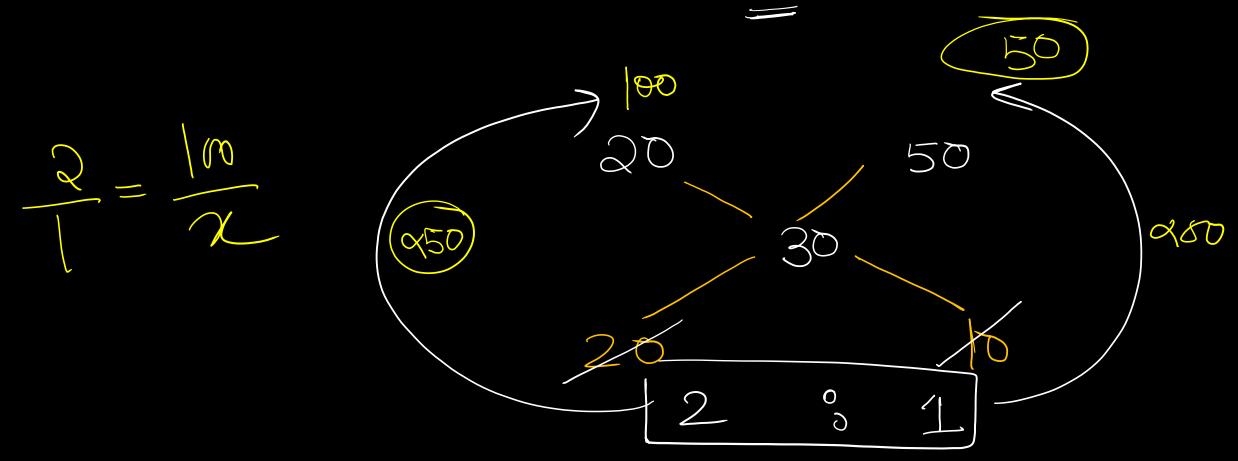
#### **Question6:**

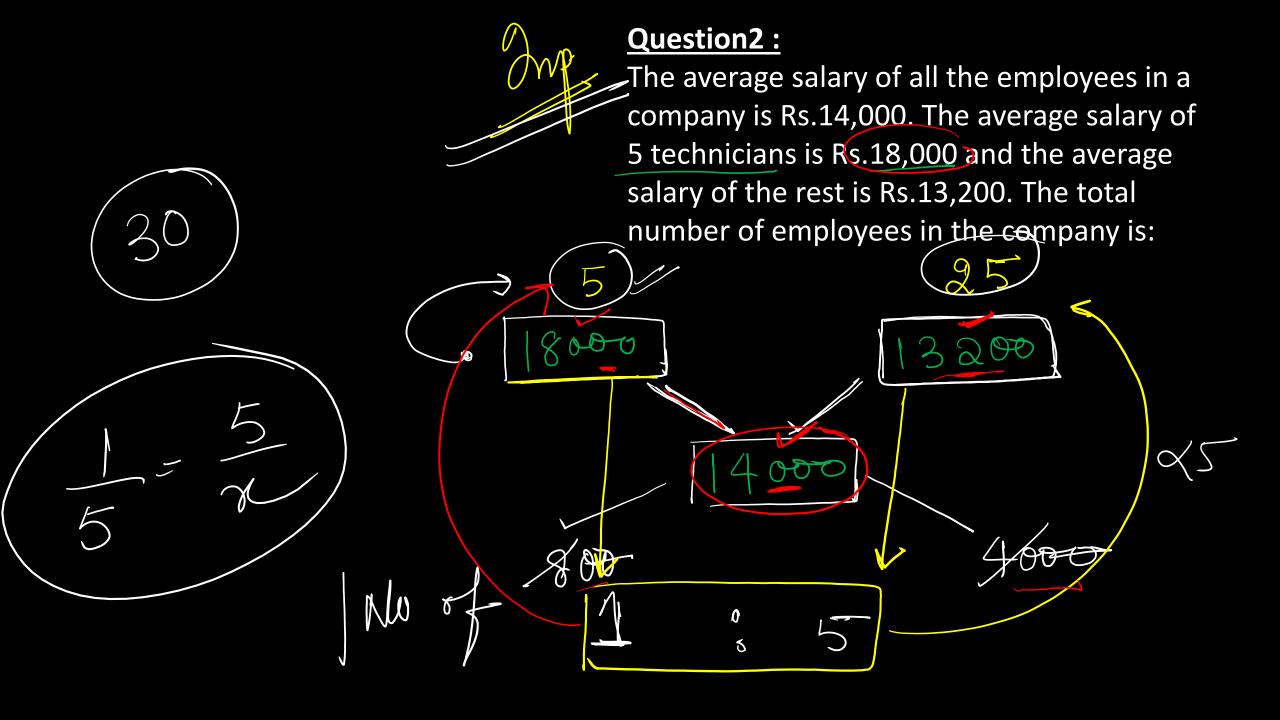
The average pass percentage of girls in class X examination in a school is 85% and that of boys is 83%. The average pass percentage of all boys and girls in class X of that school is 83.7% Find the percentage of the number of girls in

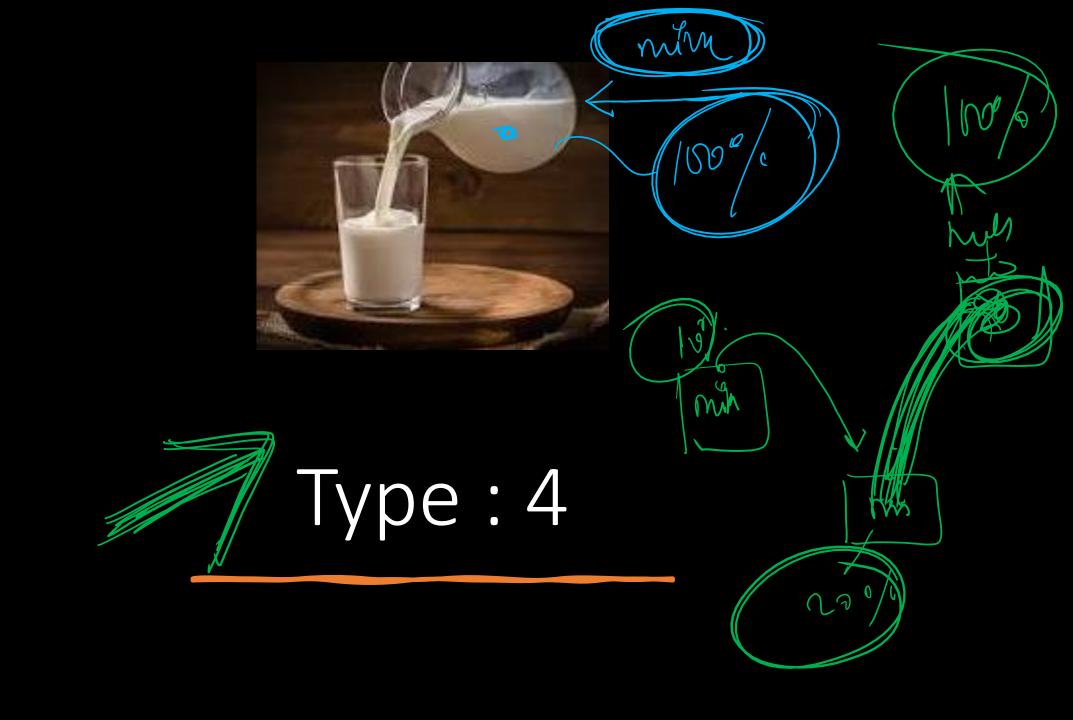
class X of that school. TITA 83.7

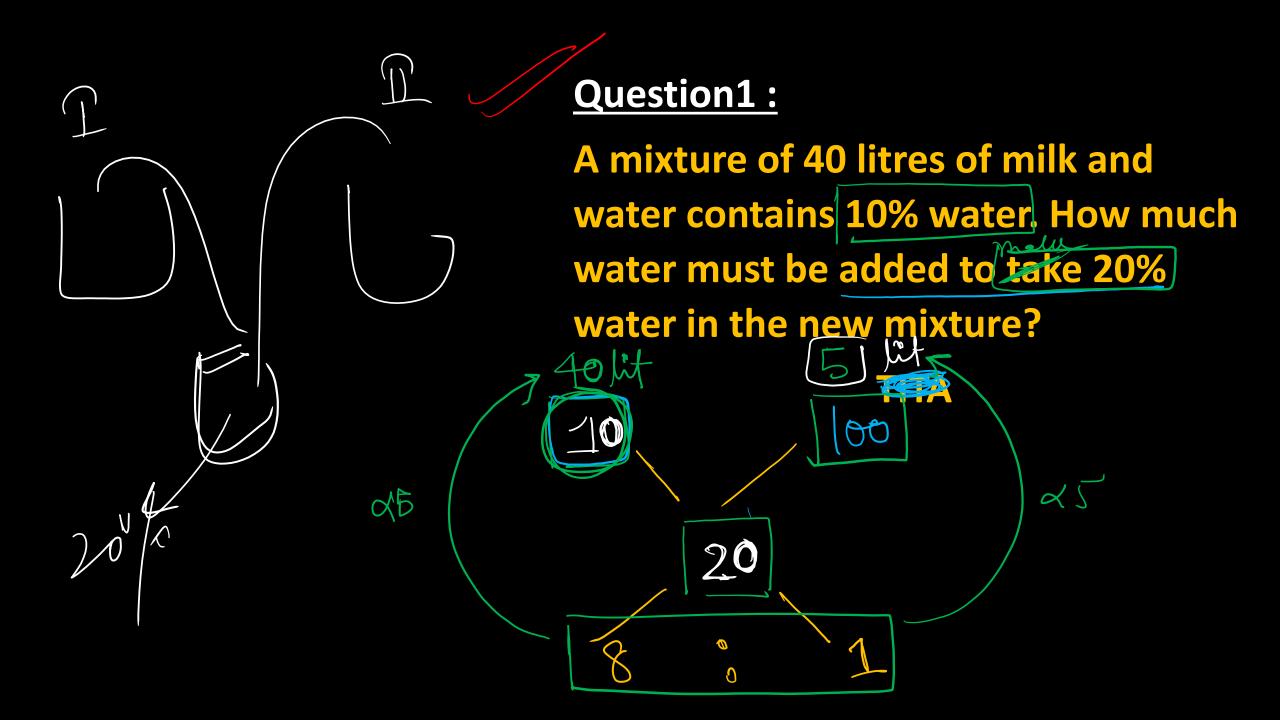


A 100 ml solution of H2SO4 having concentration of 20% is mixed with a 50% concentrated x ml mixture such that the net mixture is 30% concentrated. Determine x.

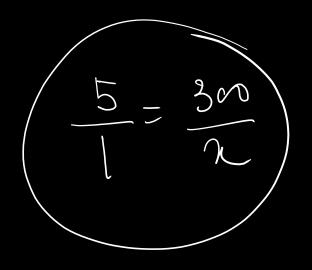






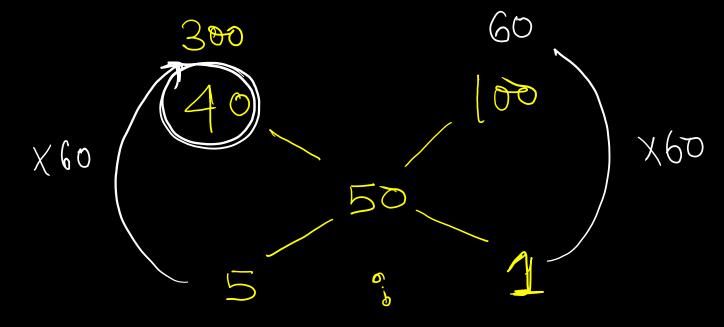


CDS, ARMS?



# Question2:

300 grams of sugar solution has 40% of sugar in it. How much sugar should be added to make it 50% in the solution?



## Question 3:

150 gram of sugar solution has 20% sugar in it. How much sugar should be added to make it 25% in the solution?

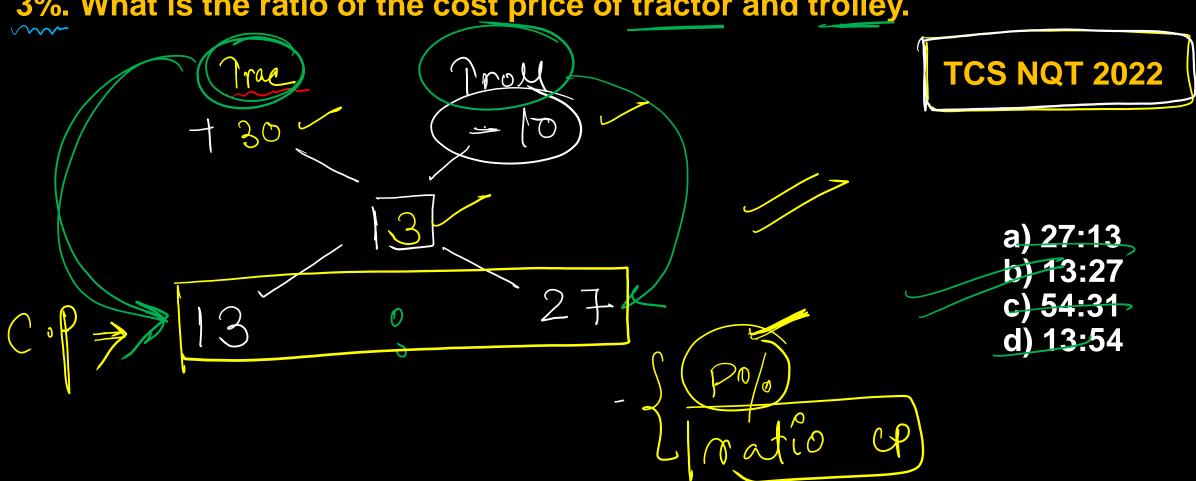
In 50gm alloy of gold and silver. The gold is 80% by weight. How much gold should be mixed to this alloy so that the weight of gold would become 95%?



A mixture of 40 litres of milk and water contains 10% of water. How much water is to be added to the mixture so that the water may be 20% in the new mixture.

Type: Profit Loss – 6

A farmer purchased a Trolley and a Tractor for 8,00,000. He sold the Tractor at a profit of 30% and the Trolley at a loss of 10%, in this deal he got a profit of 3%. What is the ratio of the cost price of tractor and trolley.





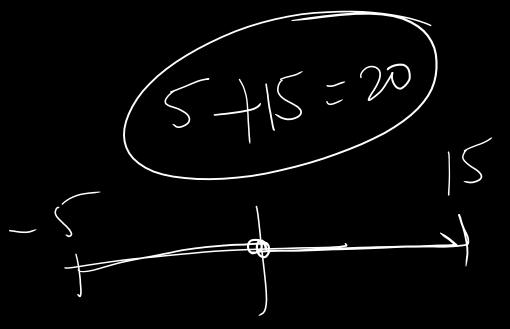
A merchant has 840 kg of rice, part of which he sells at 9% profit and the rest at 16% profit. He gains 12% profit on the whole. What is the quantity sold at 16% profit?

1) 480 kg 2) 240 kg 3) 360 kg 4) 600 kg 5) None of these

#### **Question3:**

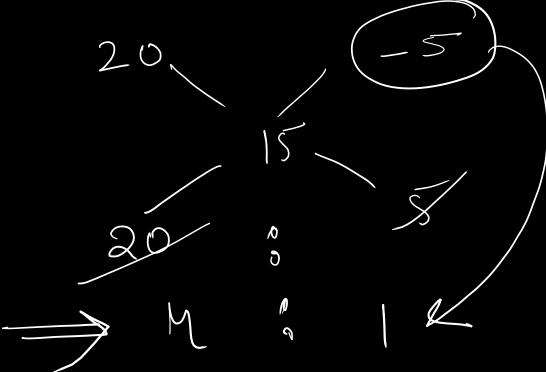
A trader has 4000 kg of tea, part of which he sells at 8% profit and the rest at 18% profit. He gains 14% on the whole. What quantity of tea was sold at 8% profit?

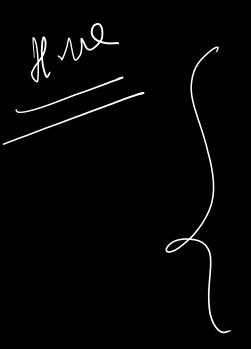
1) 480 kg 2) 200 kg 3) 2400 kg 4) 1600 kg 5) None of these



#### **Question 4:**

A trader bought 640 kg of rice. He sold a part of rice at 20% profit and the rest at 5% loss. He earned a profit of 15% in the entire transaction. What is the quantity (in kg) of rice that he sold at 5% loss?





### **Question 5:**

The total cost price of two articles is Rs. 2,000. One of them is sold at a profit of 12% and the other at a loss of 12% The overall gain in the transaction is 1.2% The cost price of the article for which there was a profit was?

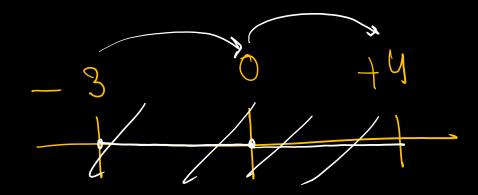


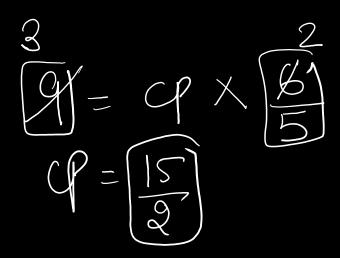
#### **Question 6:**

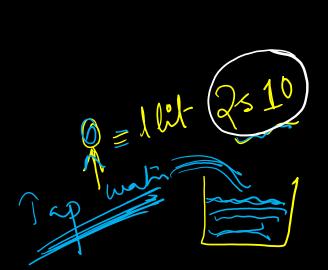
A milkman buys two cows for Rs. 3000. He sells first cow at a profit of 22% and the second cow at a loss of 8%. What is the <u>CP of second cow if in the whole transaction there is no profit no loss?</u>

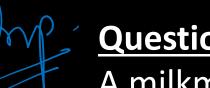
$$\frac{28}{30} \times 3000 = 2200$$
 $+22$ 
 $-8$ 
 $3000 \text{ GP} \Rightarrow 8$ 
 $\frac{2}{3}$ 

# TYPE -7

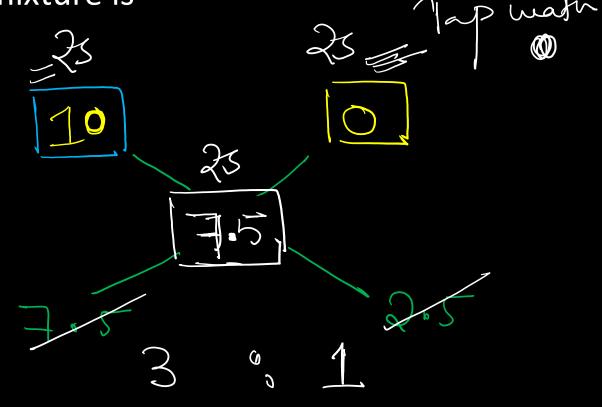








A milkman makes 20% profit by selling milk mixed with water at Rs 9 per litre If the cost price of 1 litre pure milk Is Rs 10, then the ratio of milk and water in the mixture is

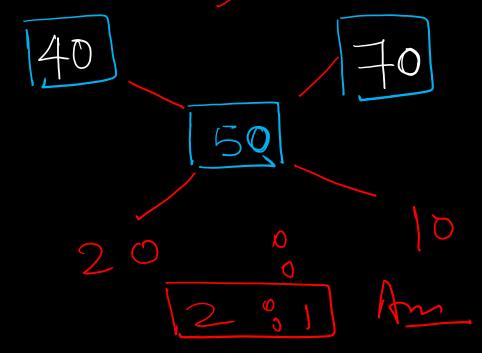


Type –8

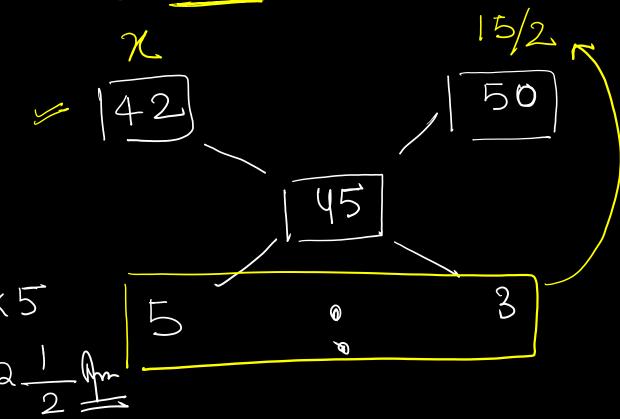


A person bought 2 varieties of tea, 1st at Rs.40/kg and 2nd at Rs.70/kg. He mixed both varieties and sold the mixture at Rs.55/kg making a profit of 10%. In what ratio did he mixed the two varieties of tea?

(A) 1:2 (B) 2:3 (C) 3:2 (D) 2:1



## Question2:



#### **Question 3:**

How much of salt at 42 paise/kg must be mixed with 25 kg of salt at 24 paise/kg, so that a profit of 25% is obtained by selling the mixture at 40 paise/kg?

1) 25 kg 2) 20 kg 3) 30 kg 4) 24 kg 5) None of these

#### **Question 4:**

How many kilograms of sugar costing Rs. 9 per kg must be mixed with 27kg of sugar costing Rs.7 per kg so that there may be gain of 10% by selling the mixture at Rs.9.24 per kg?

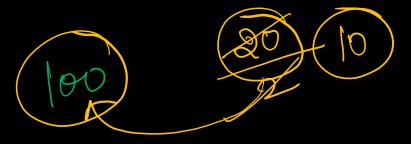
A.60KG B.63KG C.50 D.77KG

#### **Question 5:**

A trader bought 640 kg of rice. He sold a part of the rice at 20% profit and the rest at 5% loss. He earned a profit of 15% in the entire transaction. What is the ratio of the quantity of rice that he sold at a loss of 5% to that of the quantity that he sold at a profit of 20%?

- (a)1:3
- (b) 4:1
- (c)1:4
- (d)3:1

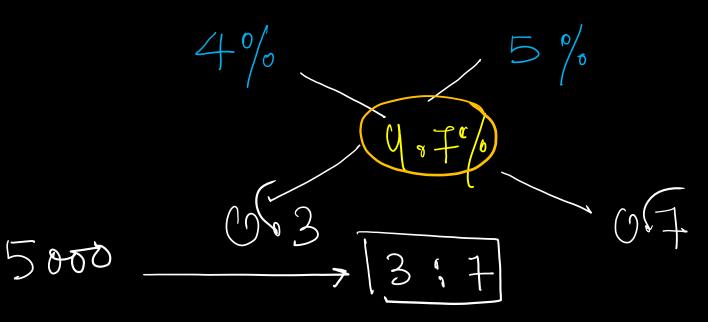
Type – 9



A sum of 5000 s divided into two parts such that the first part is invested at 4% p.a. and the second at 5% p.a. simple interest. The total interest earned from both the investments after one year is 235. Find the amount invested in first part.

- A. 1200
- B. 1500
- C. 1000
- D. 1800

$$\frac{335}{5600}$$
 x  $\frac{3}{10}$  x  $\frac{3}{10}$ 

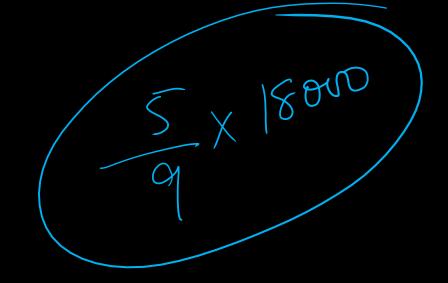


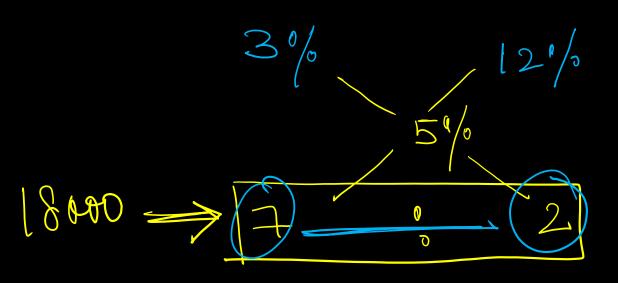
900 x 100 2 700 18000 L 3



Mr. Ravi lent Rs 18000 partly at 3% and 12% p.a. simple interest. The total interest received after 3 years is Rs. 2700. The difference between the sum lent at 3% and 12% is:

- A. Rs. 10000
- B. BRs. 4000
- C. Rs. 14000
- D. DRs. 2000





#### **Question 3:**

Mr. Mani invested an amount of Rs. 12000 at the simple interest rate of 10% per annum and another amount at the simple interest rate of 20% per annum. The total interest earned at the end of one year on the total amount invested became 14% per annum. Find the total amount invested.

- A. Rs. 20000
- B. Rs. 28000
- C. Rs. 20800
- D. Rs. 18000

# TYPE-10

10 kg of superior quality of rice is mixed with 5 kg of inferior quality of rice. The prices of superior quality and inferior quality rice are Rs 85 and Rs 46, respectively. Find the average price per kg of the mixture

85×2+46×1 85 3

