



Q1. A fruit seller had some watermelons. He sells 45% of the watermelons and still has 495 watermelons left. How many watermelons he originally had? [Percentage, Level 2, Capegemini, Wipro] 2) 800 3) 400 4) 600 1) 900 Ans: 1 Let the original number of watermelons as x. Solve 0.55x = 495. Q2. If the numerator of a fraction is increased by 140% and the denominator of the fraction is decreased by 20%, the resultant fraction is 12/7. Find the original fraction. 1) 4/9 2) 4/7 3) 7/6 4) 8/9 [Percentage, Level 2, Capegemini, Wipro] Ans: 2 **Key Concepts** Assume the original fraction as x/y. Change the numerator and denominator according to the given conditions and equate it with the given value to solve this. Q3. If 45% of a certain number is equal to (6/5)th of another number, what is the ratio between the numbers? [Percentage, Level 2, Capegemini, Wipro] 1) 9:11 2)8:3 3) 1:7 4)7:4 Ans: 2 45% of a = 6b/5, then find a : b. Q4. The marked price of a chair is Rs. 1,650. This chair is sold at two successive discounts of 10% and 20%. What is the selling price of the chair? [Profit and Loss, Level 2, Capegemini, Wipro] 1) Rs. 1,188 2) Rs. 1,288 3) Rs. 1,166 4) Rs. 1,265 Ans: 1 Discout% =  $10 + 20 - 10 \times 20/100 = 28\%$ Selling price = Marked price - discount Q5. Paras sold his goods for Rs. 960 at 33.33% profit. Find the price at which he must sell his goods so that he earns 20% profit. [Profit and Loss, Level 1, Capegemini] 1) Rs. 792 2) Rs. 720 3) Rs. 854 4) Rs. 864 Ans: 4 **Key Concepts** Use the formula: Selling price = Cost price + Profit Q6.Manoj sold an article at a marked price of Rs. 13,000. Had he offered a discount of 10% on the marked price he would have earned a profit of 30%. What is the cost price? [Profit and Loss, Level 2, Capegemini, Wipro] 1) Rs. 10,000 2) Rs. 9,900 3) Rs. 9,000 4) Rs. 11,000 Ans: 3 Given: Marked price = Rs. 13,000 Discount = 10% Selling price = 90% of Marked price = Rs 11700

Profit = 30%



Selling price = 130% of the cost price

Q7. Mihir's capital is 5/4 times more than Tulsi's capital. Tulsi invested her capital at 50 % per annum for 3 years (compounded annually). At what rate % p.a. simple interest should Mihir invest his capital so that after 3 years, they both have the same amount of capital? [SI and CI, Level 3, TCS]

a) 20/3 %

b) 10 %

c) 50/3 %

d) 1.728 %

e) None of these

Sol: Option C

**Explanation:** Let, the capital of Tulsi =  $4. \therefore$  Capital of Mihir = 9.

$$4\left(1 + \frac{50}{100}\right)^3 = \left[9 + \left(\frac{9 \times R \times 3}{100}\right)\right]R = 50/3 \%$$

Q8. Sahil's capital is 1/6 times more than Chaya's capital. Chaya invested her capital at 20 % per annum for 2 years (compounded annually). At what rate % p.a. simple interest should Sahil invest his capital so that after 2 years, they both have the same amount of capital? [SI and CI, Level 3, TCS, Infosys]

a) 10%

b) 11 5/7%

c) 20%

d) 13 5/7%

e) None of these

Sol: Option B

Explanation: Let, the capital of Sahil = 6. .: Capital of Chaya = 7

$$6\left(1 + \frac{20}{100}\right)^3 = \left[7 + \left(\frac{7 \times R \times 2}{100}\right)\right] R = 11 \text{ 5/7}\%$$

Q9. 150 litres mixture of milk and water contains 30 percent milk. How much more milk must be added to make the water percentage in the mixture as 40 percent?

1) 120.5 litres

2) 157.5 litres

3) 132.5 litres

4) 112.5 litres [Mixture and

Alligation, Level 2, TCS, Wipro]

Ans: 4

The initial volume of the mixture = 150 litres, of which 30% is milk.

The volume of milk in the mixture is =  $150 \times (30/100) = 45$  litres

The volume of water in the mixture is = 150 - 45 = 105 litres

To make the percentage of water 40%, the volume of milk has to be 60%

So, Volume of water in the mixture having 40% of water = 105 litres

Total volume of such a mixture = (105/40)x 262.5 litres

So, we need to add 262.5 – 150 = 112.5 litres of Milk to make the percentage of water in the mixture 40%

Hence, the correct answer is 112.5 litres.

Q10. The cost of two varieties of tea is INR 300 and INR 375 respectively. If both the varieties of tea are mixed together in the ratio 3:2, then what should be the price of mixed variety of tea per kg?

[Mixture and Alligation, Level 2, TCS, Infosys]

1) INR 340

2) INR 330

3) INR 350

4) INR 360

Ans: 2 Solution

Given,

The cost of two varieties of tea is INR 300 and INR 375, respectively.

Both varieties of tea are mixed together in a ratio 3:2.

So, the cost of the (3 + 2) i.e., 5 kg of the mixed tea =  $(3 \times 300) + (2 \times 375) = 900 + 750 = INR 1650$ 



Answer-C



The cost of the mixed tea per kg = 1650/5 = INR 330

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is the share of Vihaar 1) Rs. 684.20 Ans: 3	148 is to be distributed and it is to be distributed and it is	2, Capegimini, Wi 3) Rs. 748.80	pro] 4) Rs. 8	374.50
the total parts multiplied by the total sum. This gives Vihaan's share of Rs. 1,248.				
Q12. The ratio of the Capegimini, Wipro] 1) 120 2) 80 Ans: 4 5/9 of 180 = largest a	·	2 : 5. What is the 4) 100	largest angle?	[Ratio, Level 1,
Q13. 10 consecutive numbers are given. If the average of the two numbers given in the middle is 13.5, then what is the sum of the first 6 numbers? [Average, Level 2, Capegimini, Wipro]				
1) 58 ans: 4	2) 55	3) 67	4) 69	
Solution Given that the average of two middle numbers in a list of 10 consecutive numbers is 13.5. Let the smaller one be x. Therefore, the next number is $(x+1)$ . The average of these two numbers is given by: $(2x+1)/2 = 13.5$ So, $x = 13$ Therefore, the two middle numbers are 13 and 14. Since these are the 5th and 6th numbers in the list of 10 consecutive numbers. The first number in the list will be $13 - 4 = 9$ The sum of the first 6 numbers in this list $= 9 + 10 + 11 + 12 + 13 + 14 = 69$ Hence, the correct answer is 69.				
	10 numbers is 42. If each [Average, Level 1, Cap			hat will be the new
1) 42 2) 47 Ans: 2 Key Concepts If each number is income	3) 92 reased by 5, then the ave	4) 57 erage will also inc	rease by 5.	
Q15. TWO + TWO = F A) 26 B) 23 C) 22 D) None of thes	OUR find the value of F+0	O+U+R. (Infosys)		





Hint – use hit and trail method and crypt concept