

ONLINE COACHING - DAY 35 (29/08/2020 - SATURDAY)

Total points 25/25 ?

Topic : Mixture and Allegation

0 of 0 points



Name of the Candidate *

M5

Place of the candidate *

Thrissur



WHATS APP NUMBER (JOINED IN SAI EDUCATION ONLINE COACHING PLATFORM GROUP) *

9645923639

Please watch the following videos and answer the following questions

25 of 25 points

<https://youtu.be/NVahA5gJBHY>
<https://youtu.be/zjKLIIM910>

✓ 1. The average age of students of a class 15.8 years. The average age of boys in the class 16.4 years and that of the girls is 15.4 years. The ratio of the no.of boys to the no.of girls in the class is? *

1/1

2:3



3:2

4:8

8:6

✓ 2. The average salary of all the workers in a workshop is Rs.8000/-. The average salary of 7 technician is Rs.12000/- and the average salary of the rest is Rs.6000/-. The total number of workers in the workshop is? *

1/1

25



✓ --

30

21

40



✓ 3. The total population of a village is 5000. The number of males and females increases by 10% and 15% respectively and consequently the population of the village becomes 5600. What was the number of males in the village? *

1/1

6000

7000

4000

3000



✓ 4. A man invests Rs.3500 into 2 parts at simple interest, one at 4% and other 6%. If his yearly income from investment is Rs.170. How much did he invest at 6%? *

1/1

1800

1500

1790

1795



✓ 5. In 40 Ltrs of mixture containing milk and water, the ratio of milk and water is 3:1. How much water should be added to the mixture so that the ratio of milk to water becomes 2:1? *

1/1

- 6
- 7
- 5
- 4



✓ 6. Two equal glasses are $\frac{1}{2}$ and $\frac{2}{3}$ of milk respectively. The two are completely filled up with water. The contents of the two glasses are then mixed in another vessel. Find the ratio of milk and water in the vessel. *

1/1

- 6:7
- 6:5
- 16:17
- 7:5



✓ 7. Pure ghee costs Rs.100 per kg. after adultering at with vegetable oil costing Rs. 50 per kg, a shop keeper sells the mixture at the rate of Rs. 96 per kg. There by making a profit of 20%. In what ratio does he mix the two? *

1/1

3:2



2:3

3:4

4:3

✓ 8. Milk and water in a mixture are in the ratio 7:5. When 15 Ltrs of water is added to it, the ratio of milk and water in the new mixture becomes 7:8. The total quantity of water in the new mixture is? *

1/1

30

20

40



45



✓ 9. There are two containers of equal capacity, the ratio of milk to water in $\frac{1}{1}$ the first container is 3:1. In the second container is 5:2. If they are mixed up, then the ratio of milk to water in the mixture will be? *

- 3:2
- 2:3
- 3:4
- 41:15



✓ 10. In a mixture of 60 Ltr the ratio of acid and water is 2:1. If the ratio of $\frac{1}{1}$ acid and water is to be 1:2, then the amount of water (in Ltr) to be added in mixture is? *

- 30
- 20
- 40
- 60



✓ 11. Two vessels contain milk and water in the ratio 3:2 and 7:3. Find the ratio in which the contents of the two vessels have to be mixed to get a new mixture in which the ratio of milk and water 2:1? * 1/1

3:2

2:3

3:4

1:2



✓ 12. A mixture contains wine and water in the ratio 3:2 and another mixture 1/1 contains them in the ratio 4:5. How many liters of the latter mixture must be mixed with 3 liter of former so that the resulting mixture may contain equal quantities of the wine and water? *

$1 \frac{2}{3}$

$5 \frac{2}{5}$

$4 \frac{1}{2}$

$3 \frac{3}{4}$



✓ 13. pure milk costs Rs. 16 per Ltr. After adding water the milkman sells the mixture 15 per Ltr and there by makes a profit of 25%. In what respective ratio does he mix the milk with water? *

3:2

3:1

2:3

3:4



✓ 14. In what ratio must two kinds of sugar at Rs. 1.15 and Rs. 1.24 per kg be mixed so that by selling at Rs. 1.50 per kg, 25% may be gained? *

4: 5

5: 4

1: 1

2: 3



✓ 15. How much water be mixed in 36 litre of milk worth Rs. 5.00 per litre, so that value of mixture is Rs. 3.60 per litre? *

10 Ltr

11 Ltr



11 Ltr

12 Ltr

13 Ltr



✓ 16. How many kg of Sugar at 50 per kg must a man mix with 25 kg of sugar at 34 per kg so that by selling the mixture at 44 per kg he gains 10% on the outlay? *

1/1

10

15

16

18



✓ 17. How much sugar at Rs. 9.5 a kg should be added to 17 kg of tea at Rs. 20 a kg so that the mixture be worth Rs. 13 a kg.? *

1/1

11 kg

17 kg

21 kg

34 kg



✓ 18. A hospital uses a mixture of salt and water at Rs. 7.62/litre. This mixture contains 5 % salt. Another mixture containing 75 % water costs Rs. 7.82/litre. How much does the patient pay if he buys 5 litres of mixture containing 18% salt? *

1/1

- Rs. 83.75
- Rs. 73.85
- Rs. 37.85
- Rs. 38.75



✓ 19. How many kg of custard powder costing Rs. 42 per kg must be mixed with 16 kg of custard powder costing Rs. 60 per kg so that 20 % may be gained by selling the mixture at Rs. 60 per kg? *

1/1

- 11
- 12
- 14
- 20



✓ 20. A vessel is full of mixture of spirit and water in which there is 20 per cent of spirit. 5 litres are drawn off and the vessel is filled up with water. If the spirit is now 12 %, find the total quantity in the vessel (in ltrs). * 1/1

72

12.5

60

42



✓ 21. How much chicory at Rs. 5 a kg should be added to 20 kg of coffee at Rs. 12 a kg so that the mixture be worth Rs. 7.50 a kg.? * 1/1

21

15

36

40



✓ 22. An alloy of copper and nickel contains 65 % copper. A second alloy contains copper and nickel in the ratio 17 : 3. In what ratio should the two alloys be mixed so that the new mixture contains 4 times as much copper as nickel? *

1/1

4 : 5

5 : 4

1 : 3

2 : 3



✓ 23. Five litres of wine is removed from a cask full of wine and is replaced with water. Five litres of this mixture is then removed and replaced with water. If the ratio of wine to water in the cask is now 16 : 9, how much wine did the cask hold ? *

1/1

25 litres

50 litres

100 litres

75 litres



✓ 24. In what ratio must a grocer mix two varieties of pulses costing Rs. 15 1/1 and Rs. 20 per kg respectively so as to get a mixture worth Rs. 16.50 kg? *

3:7

5:7

7:3

7:5



✓ 25. How many kilogram of sugar costing Rs. 9 per kg must be mixed with 1/1 27 kg of sugar costing Rs. 7 per kg so that there may be a gain of 10% by selling the mixture at Rs. 9.24 per kg? *

36

42

54

63



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