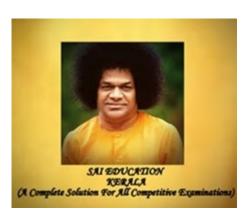
ONLINE COACHING - DAY 35 (29/08/2020 - SATURDAY)

Total points 25/25

Topic : Mixture and Allegation

0 of 0 points



Name of the Can	didate *	
M5	•	
Place of the cand	idata *	
Thrissur		

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

9645923639

Please watch the following videos and answer the following	25 of 25
questions	points

https://youtu.be/NVahA5gJBHY https://youtu.be/zjlKLIIM9I0

✓ 1. The average age of students of a class 15.8 years. The average age of 1/1 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? *

	\checkmark	
\bigcirc		
\bigcirc		
0		

2. The average salary of all the workers in a workshop is Rs.8000/-. The 1/1 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? *

\smile	
30	
21	\checkmark
O 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
O 6000	
7000	
4000	
3000	\checkmark

4. A man invests Rs.3500 into 2 parts at simple interest, one at 4% and 1/1 other 6%. If his yearly income from investment is Rs.170. How much did he invest at 6%? *

1800
1500
1790
1795

 5. In 40 Ltrs of mixture containing milk and water, the ratio of milk and 1/⁻ 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
6	
7	
● 5	
4	
 6. Two equal glasses are 1/2 and 2/3 of milk respectively. The two are 1/7 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
6:7	
6:5	

0 16:17

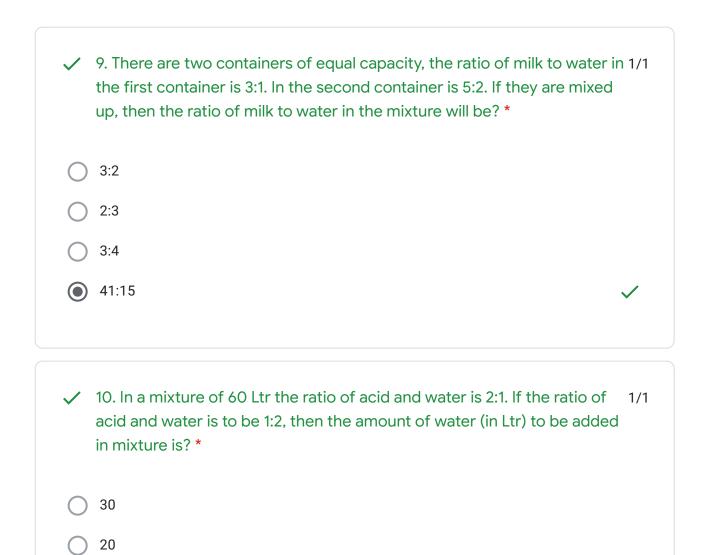
7:5

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I	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? *
۲	3:2
0	2:3
0	3:4
\bigcirc	4:3

8. Milk and water in a mixture are in the ratio 7:5. When 15 Ltrs of water is 1/1 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? *

30			
20			
● 40			\checkmark
45			



0

~	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
0	3:2	
0	2:3	
0	3:4	
۲	1:2	~
~	12. A mixture contains wine and water in the ratio 3:2 and another mixtur contains them in the ratio 4:5. How many liters of the latter mixture mus be mixed with 3 liter of former so that the resulting mixture may contain	t

equal quantities of the wine and water? *

() $1^{2}/_{3}$ () $5^{2}/_{5}$ () $4^{1}/_{2}$ () $3^{3}/_{4}$

✓ 13. pure milk costs Rs. 16 per Ltr. After adding water the milkman sells the 1/1 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 1/1 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, 1/1 so that value of mixture is Rs. 3.60 per litre? *

) 10 Ltr

U		
12 Ltr		\checkmark
🔵 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
С) 10	
۲) 15	\checkmark
С) 16	
С) 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.? *	5. 1/1

20 a kg so that the mixture be worth Rs. 13 a kg.? *	
11 kg	
🔵 17 kg	
🔵 21 kg	
34 kg	\checkmark

~	18. A hospital uses a mixture of salt and water at Rs. 7.62/litre. This 1 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
\bigcirc	Rs. 83.75	
0	Rs. 73.85	
\bigcirc	Rs. 37.85	
\bigcirc	Rs. 38.75	*

19. How many kg of custard powder costing Rs. 42 per kg must be mixed 1/1 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? *

0 11			
0 12			
0 14			
() 20			\checkmark

 20. A vessel is full of mixture of spirit and water in which there is 20 per 1/1 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). *
72
 12.5
60
42
 21. How much chicory at Rs. 5 a kg should be added to 20 kg of coffee at 1/1 Rs. 12 a kg so that the mixture be worth Rs. 7.50 a kg.? *
O 21
0 15

 \checkmark

40

③ 36

.

~	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
0	4 : 5	
\bigcirc	5:4	
	1:3	/
0	2:3	

23. Five litres of wine is removed from a cask full of wine and is replaced 1/1 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 ? *

25 litres	\checkmark
50 litres	
0 100 litres	
O 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
O 42
54
● 63

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