

Online coaching day 89 (06-07-2019)Saturday

Maths- mixture and allegation



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Please watch the online video



<https://youtu.be/NVahA5gJBHY>

<https://youtu.be/zjKLIIM9I0>

Untitled Section

1. A mixture of milk and water contains 80% milk. In 50 litre of such a mixture how many litres of water is required to increase the percentage of water to 50% *

1 point

10

20

30

15

2. In what proportion must rice at 310 Rs/ kg is mixed with rice at 360 Rs/ kg, so that the mixture become is of 325 Rs/kg *

1 point

3:2

3:7

7:3

2:3

3. A jar full of whisky contains 40% alcohol. A part of this whisky is replaced by another containing 19% of alcohol and now percentage of alcohol was formed to be 26%. How much quantity of whisky is replaced. *

1 point

1/3

2/3

1/4

3/4

4. The diluted wine contains 8 litre of wine and rest 32 litres of water. 1 point
How many litres of mixture shall be replaced by pure wine, so that new mixture become 30% pure wine? *

20

5

15

10

5. In the 75 litre of mixture of soda and water ratio of soda and 1 point
water is 4:1. The quantity of water required to make the ratio of soda
and water 3:1 is? *

5

3

7

10

6. A mixture of milk and water in a jar comprises 12 litre of milk. If 8 1 point
litre of pure milk and 3 litre of water were added to this jar. The % of
water in the new mixture would be 20%. What was the initial quantity
of water in the jar. *

1

2

3

4

7. 2 alloys of gold and copper are prepared by mixing in the ratio of 7:2 and 7:11. A third alloy is made after mixing the equal quantities of 2 alloys. The ratio of gold and copper in the third alloy is? *

1 point

- 5:7
- 3:7
- 7:3
- 7:5

8. 2 equal vessels are filled with the mixture of water and milk in the ratio 3:4 and 5:3. If the mixture are poured in to a 3rd vessel. The ratio of water and milk in the 3rd vessel will be *

1 point

- 59/53
- 20/37
- 45/37
- 53/59

9. A can contains a mixture of 2 liquids A and B in the ratio 7:5. When 9 litre of mixture are drawn off and the can is filled with B. The ratio of A and B becomes 7:9. How many litres of liquid A was contained by the can initially? *

1 point

- 21
- 25
- 7
- 14

10. How many kg of sugar costs 9Rs/kg must be mixed with 27 kg of sugar costing 7/ kg. So that there may be a gain of 10% by selling the mixture at 9.24/kg. *

1 point

63

36

49

54

11. A container contains 192 litres of milk. A seller draws out x% of milk and replaced it with same quantity of water. He repeated the same process for 3 times and this milk content in the mixture is only 81 litres. Then how much percent he withdraw everytime? *

1 point

30

25

20

35

12. In what ratio, should mix 40 Rs/ kg wheat with 60Rs/kg wheat. So that cost price of mixture becomes 55Rs/kg. *

1 point

1:3

2:3

3:1

3:2

13. Ratio of milk and water in mixture A and B are 5:3 & 11:5. Find ratio of milk and water if mixture A and B are mixed equally. *

1 point

21:11

23:11

11:21

11:23

14. In a container A and B, ratio of milk and water is 4:5 and 5:1 respectively. In what ratio, should we mix both so that ratio of milk and water becomes 5:4? *

1 point

2:3

2:5

5:2

3:2

15. A mixture of 600 gm contains 60% sugar and rest is water. How much water is to be added in it so that in new mixture, water and sugar are in equal? *

1 point

360 gm

240 gm

420 gm

120 gm

16. In 40 litre of mixture, milk and water in the ratio 3:1. How much water should be added to this mixture become 2:1 *

1 point

3

5

7

10

17. Pure ghee costs Rs 100/ kg after adultering at with vegetable oil costs Rs 50/ kg. A shopkeeper sells this mixture at the rate of Rs 96/ kg. There by making a profit of 20% . In what ratio does he mix the two. *

1 point

3:2

1:2

2:5

2:3

18. The average age of students in a class is 15.8 years. The average age of boys in the class is 16.4 years, and that if girls is 15.4 years. The ratio of boys to girls is *

1 point

2:3

3:2

1:3

3:1

19. The average salary of all the workers in a workshop is 8000Rs. The average salary of 7 technicians is 12000/. And the average salary of the rest is 6000. Then total number of workers in the workshop. *

1 point

21

23

32

41

20. 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 become 5600. What was the number of males in that village. *

1 point

2000

3000

4000

6000

21. Milk and water in a mixture in the ratio 7:5. When 15 litres of water added to this, the ratio become 7:8. The total quantity of water in the new mixture *

1 point

20

80

45

40

22. There are 2 containers of equal capacity. The ratio of milk to water in the 1st is 3:1, and in 2nd 5:2. If they are mixed up the ratio will be *

1 point

- 15:41
- 2:3
- 3:5
- 41:15

23. In a mixture of 60 litres, the ratio of acid to water is 2:1. If the ratio of acid and water to be 1:2, then the amount of water to be added to this is *

1 point

- 80
- 20
- 40
- 60

24. Two vessels contains 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 milk and water in the ratio 2:1. *

1 point

- 2:1
- 1:2
- 3:2
- 2:3

25. Pure milk costing Rs 16/ litre. After adding water the milkman sellsnit for 15/ litre, and there by making a profit of 25%. In what respective ratio does he mix the milk with water. *


1 point

1:3

3:1

4:5

7:3

Thank you 

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