

APTITUDE QUIZ

Mixture and Alligation Questions with Answers

Q.1. How many kilograms of Red chili powder costing Rs. 9 per kg must be mixed with 27 kg of Red chili powder costing Rs. 7 per kg so that there may be a gain of 10% by selling the mixture at Rs. 9.24 per kg?

- (A) 63
- (B) 36
- (C) 42
- (D) 32

Q.2. A can contains a mixture of two liquids A and B in the ratio 7 : 5. When 9 L mixture are drawn off and the can is filled with B, the ratio of A and B becomes 7 : 9. Litres of liquid A contained by the can initially was

- (A) 10
- (B) 20
- (C) 21
- (D) 25

Q.3. Sugar worth Rs. 126 per kg and Rs. 135 per kg are mixed with a third variety in the ratio 1 : 1 : 2. If the mixture is worth Rs. 153 per kg, the price of the third variety per kg will be:

- (A) Rs. 185.50
- (B) Rs. 195.50
- (C) Rs. 165.50
- (D) Rs. 175.50

Q.4. A container has 80 L of milk. From this container 8 L of milk was taken out and replaced by water. The process was further repeated twice. The volume of milk in the container after that is

- (A) 58.23 L
- (B) 85.23 L
- (C) 58.32 L
- (D) 85..32 L

Q.5. A can contains a mixture of two liquids Milk and Water is the ratio 7 : 5. When 9 litres of mixture are drawn off and the can is filled with Water, the ratio of Milk and Water becomes 7 : 9. How many litres of liquid Milk was contained by the can initially?

- (A) 12
- (B) 15
- (C) 21
- (D) 26

Q.6. 15 L of mixture contains alcohol and water in the raito 1 : 4. If 3 L of water is mixed in it, the percentage of alcohol in the new mixture will be

- (A) 15
- (B) $16\frac{2}{3}$
- (C) 17
- (D) $18\frac{1}{2}$

Q.7. How much water be added to a bucket which contains 40 L of milk at the cost price of Rs. 3.50 per litre, so that the cost of milk reduced to Rs 2 per litre ?

- (A) 25 L
- (B) 28 L

(C) 30 L

(D) 35 L

Q.8. 3 containers has milk and water in ratio 2 : 1, 3 : 1, 3 : 2 respectively and all three containers are emptied into a bigger container, then ratio of milk in bigger container.

(A) 121 : 59

(B) 59 : 121

(C) 120 : 60

(D) None of these

Q.9. A milk seller has a milk of Rs. 100 per litre. In what ratio should water be mixed in that milk, so that after selling the mixture at Rs 80 per litre, he may get a profit of 50%?

(A) 7 : 8

(B) 7 : 9

(C) 9 : 7

(D) 7 : 5

Q.10. A container has 60 L of milk, from this container, 4 L of milk is taken out and replaced with water. If this process is repeated 3 times, then quantity of milk in container left

(A) 568.7 L

(B) 754.6 L

(C) 48.78 L

(D) None of these

Q.11. A trader has 200 kg of sugar, a part of which he sells at 10% profit and rest at 5% loss. He gain 7% on the whole. What is the quantity sold at 5% loss?

- (A) 30 Kg
- (B) 60 kg
- (C) 40 kg
- (D) 45 kg

Q.12. A mixture contains milk and water in ratio 4:3. If 5 L of water is added to the mixture, the ratio becomes 4:5. The quantity of milk

- (A) 10 L
- (B) 11 L
- (C) 15 L
- (D) 16 L

Q.13. 4 L are drawn from a container full of milk and is, then filled with water. This operation is performed three more times. The ratio of the quantity of milk left in the container and that of water is 16: 65. How much milk did the container hold initially?

- (A) 24 L
- (B) 12 L
- (C) 15 L
- (D) 25 L

Q.14. A shopkeeper has 1000 kg of Tea, part of which he sells at 8% profit and the rest at 18% profit. He gains 14% on the whole. The quantity sold at 18% profit is:

- (A) 650
- (B) 600
- (C) 420
- (D) 750

Q.15. A man had Rs. 8400. He lent a part of it at 8% simple interest and the remaining at $6\frac{2}{3}\%$ simple interest. His total annual income was Rs.

588. Find the sum lent at different rates.

- (A) Rs. 2100, Rs. 6300
- (B) Rs. 2300, Rs. 6200
- (C) Rs. 2200, Rs. 7500
- (D) Rs. 2400, Rs. 7400

Q16 : 200 litres of mixture contains 15% water and the rest is milk.

The amount of milk that must be added so that the resulting mixture contains 87.5 % milk is:

- (A) 30 litres
- (B) 35 litres
- (C) 40 litres
- (D) 45 litres

Q17 : A tank contains a mixture of 80 litre of milk and water. 70% of the milk and 30% of the water are drawn, therefore 55% part of the tank become empty. Find the initial quantity of milk and water in the tank.

- (A) 50 litre , 30 litre
- (B) 30 litre, 50 litre
- (C) 20 litre, 60 litre
- (D) None of these

Q18 : Milk and water are mixed in vessel A in the ratio of 5:2 and in vessel B in the ratio of 8:5. In what ratio should quantities be taken from the two vessels so as to form a mixture in which milk and water will be in the ratio of 9:4 ?

- (A) 7:2

- (B) 5:2
- (C) 2:7
- (D) 2:5

Q19 : Lala has lent some money to Arun at 5% p.a. and Bhatia at 8 % p.a. At the end of the year, he has gained an overall interest at the rate 6%. In what ratio has he lent the money to Arun and Bhatia?

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

Q20 : A mixture contains wine and water in the ratio 3 : 2 and another mixture contains them in the ratio 4 : 5 . How many litres of the latter mixture must be mixed with 3 litres of the former mixture so that the resultant mixture may contain equal quantities of wine and water?

- (A) litres
- (B) litres
- (C) litres
- (D) litres

Q21 : A can contains a mixture of two liquids A and B in the ratio 7:5. When 9 litres of mixture are drained 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?

- (A) 10
- (B) 21
- (C) 20
- (D) 25

Q22 : Rahul purchased two different kinds of alcohol. In the first mixture the ratio of alcohol to water is 3:4 and in the second mixture it is 5:6. If he mixes the two given mixture and makes a third mixture of 18 litres in which the ratio of alcohol to water is 4:5, the quantity of first mixture (whose ratio is 3:4) is required to make the 18 litres of the third kind of mixture is:

- (A) 5
- (B) 9
- (C) 6
- (D) 7

Q23 : Three vessels whose capacities are in the ratio of 3: 2: 1 are completely filled with milk mixed with water. The ratio of milk and water in the mixture of vessels are 5: 2, 4: 1 and 4: 1 respectively. Taking 1/3 of first, 1/2 of second and 1/7 of third mixtures, a new mixture kept in new vessel is prepared. The percentage of water in the new mixture is

- (A) 30
- (B) 24
- (C) 32
- (D) 28

Q24 : In what ratio must a mixture of 30 % alcohol strength be mixed with that of 50 % alcohol strength so as to get a mixture of 45 % alcohol strength?

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

Q25 : In an alloy, the ratio of copper and zinc is 5 : 2. If 1.250 kg of zinc is mixed in 17 kg 500 g of alloy, then the ratio of copper and zinc will be

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

ANSWERS

- 1.A**
- 2.C**
- 3.D**
- 4.C**
- 5.C**
- 6.B**
- 7.C**
- 8.A**
- 9.A**
- 10.C**
- 11.C**
- 12.A**
- 13.B**
- 14.B**
- 15.A**
- 16.C**

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17.A

18.A

19.C

20.D

21.B

22.D

23.B

24.D

25.C

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