

Allegation and Mixture

1. How much water must be added to 60 litres of milk at 1.5 litres for Rs. 20 So as to have a mixture worth Rs. $10\frac{2}{3}$ a litre?

- a) 25 b) 35 c) 15 d) 18

2. In what ratio must rice at Rs 36 per kg be mixed with rice at Rs 48 per kg so that the mixture be worth Rs 40 per kg?

- a) 1:5 b) 2:1 c) 1:7 d) 2:3

3. How much water must be added to 60 liters of milk at 1 half liter for Rs 20, so as to have a mixture worth Rs $10\frac{2}{3}$ a liter?

- a) 10 b) 12 c) 15 d) 18

4. In what ratio must be mixed with milk to gain 20% by selling the mixture at cost price?

- a) 1:5 b) 1:6 c) 1:7 d) 1:8

5. How many kg of wheat costing 8 per kg mixed with 36 kg of costing Rs 5.40 per kg. So that 20% gain may be obtained by selling the mixture at Rs 7.20 per kg?

- a) 13kg b) 12kg c) 15kg d) 18kg

6. The milk and water in two vessels A and B are in the ratio 4:3 and 2:3 respectively. In what ratio the radius in both the vessels be mixed to obtain a new mixture in vessels C containing half milk & half water?

- a) 8:3 b) 7:5 c) 4:3 d) 2:3

7. 60 kg an alloy A is mixed with 100 kg of alloy A has lead and tin in the ratio 3:2 and alloy B has tin and copper in the ratio 1:4 then the amount of tin in new alloy is?

- a) 44kg b) 36kg c) 25kg d) 58kg

8. Find the ratio in which rice at Rs 7.20 per kg mixed with rice at Rs 5.70 per kg to produce a mixture worth Rs 6.30 per kg?

- a) 1:5 b) 1:6 c) 1:7 d) 2:3

9. In what ratio must grocer mix two varieties of pulses costing Rs 15 and Rs 20 per kg respectively. So as to get a mixture worth Rs 16.50 per kg?

- a) 4:5 b) 5:6 c) 7:3 d) 2:3

10. Tea worth Rs 126 and Rs 135 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 169.50 (b) Rs 170 (c) Rs 175.50 (d) Rs 180

11) In two containers A and B, milk and water are in the ratio 5 : 8 and 3 : 8 respectively. Equal quantity of both mixtures are mixed together. Find the ratio of milk and water in new mixture?

- a) 1 : 1 b) 1 : 3 c) 2 : 1 d) 1 : 2

12) The acid and water in two vessels A and B are in the ratio 4 : 3 and 2 : 3. In what ratio should the liquid in both the vessels be mixed to obtain a new mixture in vessels C containing half acid and half water?

- a) 7 : 5 b) 5 : 7 c) 7 : 3 d) 5 : 3

13) A and B are two alloys of gold and copper prepared by mixing metals in the ratio 5 : 3 and 5 : 11 respectively. Equal quantities of these alloys are melted to form a third alloy C. The ratio of gold and copper in alloy C is:

- a) 25 : 13 b) 33 : 15 c) 15 : 17 d) 17 : 15

14) The proportion of acid and water in three samples 2 : 1, 3 : 2 and 5 : 3. A mixture containing equal quantities of all three samples is made. The ratio of water and acid in the mixture is:

- a) 120 : 133 b) 227 : 133 c) 227 : 120 d) 133 : 227

15) The ratio of milk and water in mixture of four containers are 5 : 3, 2 : 1, 3 : 2 and 7 : 4 respectively. In which container is the quantity of milk, relative to water, minimum?

- a) first b) second c) third d) fourth

16) In one glass, milk and water are mixed in the ratio 3 : 5 and in another glass they are mixed in the ratio 6 : 1. In what ratio should the content of the two glasses be mixed together so that the new mixture contains milk and water in the ratio 1:1?

- a) 20 : 7 b) 8 : 3 c) 27 : 4 d) 25 : 9

17) 40 liters of mixture of milk and water contains 10% of water, the water to be added to make the water content 20% in the new mixture?

- a) 6 lit b) 6.5 lit c) 5.5 lit d) 5 lit

18) A mixture of 30 liters contains milk and water in the ratio of 7 : 3. How much water should be added to it so that the ratio of milk and water becomes 3:7?

- a) 40 lit b) 49 lit c) 50 lit d) 68 lit

19) There are 10 pets ,some are dogs and some are cats. Each dog eat 6 biscuits and each cats eat 5 biscuits .There are total 56 biscuits for them. Find number of dogs?

- a) 4 b) 6 c) 5 d) 9

20) In zoo there are some goats and some hens. The total no of heads is 40 and total legs is 100. Find number of goats?

- a) 10 b) 9 C) 30 d) 5

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ANSWER KEY

1	C
2	B
3	C
4	A
5	A
6	B
7	A
8	D
9	C
10	C
11	A
12	A
13	C
14	D
15	C
16	A
17	D
18	A
19	B
20	A