

TOPIC: - MIXTURE AND ALLIGATION

PRACTICE SET

1. In what ratio must water be mixed with milk to gain 16% on selling the mixture at cost price?
 - a) 1:6
 - b) 4:25
 - c) 2:3
 - d) 4:3
 - e) None of these
2. In what ratio must a grocer mix two varieties of tea worth Rs. 60 per kg and Rs. 65 per kg so that by selling the mixture at Rs. 68.20 per kg may gain 10%?
 - a) 3:2
 - b) 3:4
 - c) 3:5
 - d) 4:5
 - e) None of these
3. A milk vendor has 2 cans of milk. The first contains 25% water and the rest milk. The second contains 50% water. How much milk should he mix from each of the containers so as to get 12 litres of milk such that the ratio of water to milk is 3:5?
 - a) 4 litre, 8 litre
 - b) 6 litre, 6 litre
 - c) 5 litre, 7 litre
 - d) 7 litre, 5 litre
 - e) None of these
4. How many kilogram of sugar costing Rs. 9 per kg must be mixed with 27 kg of sugar costing Rs. 7 per kg so that there may be a gain of 10% by selling the mixture at Rs. 9.245 kg?
 - a) 36 kg
 - b) 42 kg
 - c) 54 kg
 - d) 63 kg
 - e) None of these
5. A container contains 50 litres of milk. From this container 5 litres of milk was taken out and replaced by water. This process was repeated further two times. How much milk is now contained by the container?
 - a) 26.34 litre
 - b) 27.36 litre
 - c) 28 litre
 - d) 36.45 litre
 - e) None of these
6. In a mixture of milk and water of volume 30 litre the ratio of water and milk is 3:7. How much quantity of water will be added to the mixture to make the ratio of milk and water 1:2
 - a) 23 litre
 - b) 21 litre
 - c) 12 litre
 - d) 33 litre
 - e) None of these
7. The cost of type 1 rice is Rs. 15 per kg and type 2 rice is Rs. 20 per kg. If both type 1 and type 2 are mixed in the ratio of 2:3 then the price per kg of the mixed variety of rice is?
 - a) Rs. 18
 - b) Rs. 18.50
 - c) Rs. 19
 - d) Rs. 19.50

- e) None of these
8. A merchant has 1000 kg of sugar, part of which he sells at 8% profit and the rest at 18% profit. If he gains 14% on the whole then the quantity sold at 18% profit is:
- a) 400 kg
b) 560 kg
c) 600 kg
d) 640 kg
e) None of these
9. In an examination out of 900 students 85% of the boys and 70% of girls passed. How many girls appeared in the examination, if total pass percentage was 75%?
- a) 400
b) 500
c) 600
d) 700
e) None of these
10. 400 gm of salt solution has 40% salt in it. How much salt should be added to make it 50% in the solution?
- a) 60
b) 70
c) 65
d) 80
e) None of these
11. Chocolates at Rs. 12.00 per dozen is mixed with chocolates at Rs. 10.00 per dozen in the ratio 3:5. Find the price per dozen of the mixture?
- a) Rs.11.00
b) Rs.9.90
c) Rs.11.50
d) Rs.505
e) None of these
12. Pencils of Rs. 4.20 per dozen is mixed with pencil at Rs. 5.40 per dozen in the ratio 3:5. Find the price per dozen of the mixture?
- a) Rs.4.95
b) Rs.4.50
c) Rs.5.00
d) Rs.5.05
e) None of these
13. In a mixture of milk and water of the volume of 60 litres the ratio of milk to water is 7:5. How much quantity of water will be added to make mixture of equal ratio?
- a) 8 litre
b) 10 litre
c) 15 litre
d) 20 litre
e) None of these
14. In a mixture of milk and water of volume 30 litres, the ratio of milk and water is 8:7. How much water should be added in mixture to make ratio 4:5?
- a) 6 litre
b) 4.5 litre
c) 5 litre
d) 5.5 litre
e) None of these
15. A mixture of milk and water measures 60ltr. It contains 20% water. How many litres of water should be added to it so that water may be 25%?
- a) 6 ltr
b) 4ltr
c) 8 gallons
d) 10 ltr
e) None of these

SOLUTIONS

1. b
2. a
3. b
4. d
5. d
6. d
7. a
8. c
9. c
10. d
11. d
12. b
13. a
14. b

