APTITUDE QUIZ

1. A mixture of 150 liters of wine and water contains 20% water. How much more water should be added so that water becomes 25% of the new mixture?

A. 7 liters

B. 15 liters

C. 10 liters

D. 9 liters

2. A vessel contains 20 liters of a mixture of milk and water in the ratio 3:2. 10 liters of the mixture are removed and replaced with an equal quantity of pure milk. If the process is repeated once more, find the ratio of milk and water in the final mixture obtained?

A. 9:1

B. 4:7

C. 7:1

D. 2:5

3. In what ratio should two varieties of sugar of Rs.18 per kg and Rs.24 kg be mixed together to get a mixture whose cost is Rs.20 per kg?

A. 1:3

B. 3:1

C. 1:2

D. 2:1

4. How many liters of oil at Rs.40 per liter should be mixed with 240 liters of a second variety of oil at Rs.60 per liter so as to get a mixture whose cost is Rs.52 per liter?

A. 120 liters

B. 180 liters

C. 110 liters

D. 160 liters

5. Two varieties of wheat - A and B costing Rs. 9 per kg and Rs. 15 per kg were mixed in the ratio 3 : 7. If 5 kg of the mixture is sold at 25% profit, find the profit made?

A. Rs. 13.50

B. Rs. 14.50

C. Rs. 15.50

D. Rs. 16.50

E. None of these

6. In a mixture of milk and water, the proportion of milk by weight was 80%. If, in a 180 gm mixture, 36 gms of pure milk is added, what would be the percentage of milk in the mixture formed?

A. 80%

B. 100%

C. 84%

D. 87.5%

E. None of these

7. In a can, there is a mixture of milk and water in the ratio 4 : 5. If it is filled with an additional 8 litres of milk the can would be full and ratio of milk and water would become 6 : 5. Find the capacity of the can?

A. 40

B. 44

C. 48

D. 52

E. None of these

8. In what ratio should a variety of rice costing Rs. 6 per kg be mixed with another variety of rice costing Rs. 8.75 per kg to obtain a mixture costing Rs. 7.50 per kg?

A. 5: 6

B. 3: 4

C. 7: 8

D. 8: 9

E. None of these

9. A mixture of 70 litres of milk and water contains 10% water. How many litres of water should be added to the mixture so that the mixture contains 12 1/2% water?

A. 2

B. 8

C. 4

D. 5

E. None of these

10. All the water in container A which was filled to its brim was poured into two containers B and C. The quantity of water in container B was 62.5% less than the capacity of container A. If 148 liters was now transferred from C to B, then both the containers would have equal quantities of water. What was the initial quantity of water in container A?

A. 648

B. 888

C. 928

D. 1184

E. None of these

11. Two vessels P and Q contain 62.5% and 87.5% of alcohol respectively. If 2 litres from vessel P is mixed with 4 litres from vessel Q, the ratio of alcohol and water in the resulting mixture is?

A. 16: 5

B. 14: 5

C. 16: 7

D. 19: 5

E. None of these

12. A vessel of capacity 90 litres is fully filled with pure milk. Nine litres of milk is removed from the vessel and replaced with water. Nine litres of the solution thus formed is removed and replaced with water. Find the quantity of pure milk in the final milk solution?

A. 72

B. 72.9

C. 73.8

D. 74.7

E. None of these

13. The ratio in which the price at Rs.7.20 a kg be mixed with rice at Rs. 5.70 a kg to produce a mixture worth Rs.6.30 a kg is:

A. 1:3

B. 2:3

C. 3:4

D. 4:5

14. In what ratio must a grocer mix teas worth Rs.60 a kg and Rs.65 a kg.So that by selling the mixture at Rs. 68.20 a kg, He may gain 10%?

A. 3:2

B. 3:4

C. 3:5

D. 4:5

15. In what ratio must water be mixed with milk to gain 16 2/3 % by selling the mixture at cost price?

A. 1:6

B. 2:3

C. 4:3

D. 6:1

16. Milk and water in two vessels A and B are in the ratio 4:3 and 2:3 respectively in what ratio the liquids in both the vessels should be mixed to obtain a new mixture in vessel C containing half milk and half water?

A. 1:1

B. 1:3

C. 1:2

D. 7:5

17. How much water must be added to a bucket which contains 40 liters of milk at the cost price of Rs.3.50 per liter so that the cost of milk reduces to Rs.2 per liter?

A. 25 liters

B. 28 litres

C. 30 liters

D. 35 liters

18. In what proportion must water be added to spirit to gain 20% by selling it at the cost price?

A. 2:5

B. 1:5

C. 3:5

D. 4:5

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

A. 1 : 3

B. 2 : 3

C. 3 : 4

D. 4 : 5

20. In what ratio must a grocer mix two varieties of tea worth Rs. 60 a kg and Rs. 65 a kg so that by selling the mixture at Rs. 68.20 a kg he may gain 10%?

A. 3: 2

B. 3: 4

C. 3: 5

D. 4: 5

ANSWERS

1. C

2. A

3. D

4. D

5. D

6. E

7. B

8. A

9. A

10. D

11. D

12. B

13. A

14. A

15. A

16. D

17. C

18. B

19. B

20. A