APTITUDE QUIZ

1. A can contains a mixture of two liquids A and B is the ratio 7 : 5. When 9 litres 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?

A. 10

B. 20

C. 21

D. 25

2. Tea 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. 175.50

B. Rs. 180

C. Rs. 170

D. Rs. 169.50

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. 6 litres

B. 1 litres

C. 8 litres

D. 7 litres

4. How many litres of water should be added to a 30 litre mixture of milk and water containing milk and water in the ratio of 7 : 3 such that the resultant mixture has 40% water in it?

A. 15 litres

B. 10 litres

C. 6 litres

D. 5 litres

5. A merchant mixes three varieties of rice costing Rs.20/kg, Rs.24/kg and Rs.30/kg and sells the mixture at a profit of 20% at Rs.30 / kg. How many kgs of the second variety will be in the mixture if 2 kgs of the third variety is there in the mixture?

A. 1 kg

B. 3 kgs

C. 5 kgs

D. 10 kgs

6. When processing flower-nectar into honeybees' extract, a considerable amount of water gets reduced. How much flower-nectar must be processed to yield 1kg of honey, if nectar contains 50% water, and the honey obtained from this nectar contains 15% water?

A. 1.7 Kg.

B. 2 Kg.

C. 5 Kg.

D. 2.7 Kg.

7. A 20 litre mixture of milk and water contains milk and water in the ratio 3 : 2. 10 litres of the mixture is removed and replaced with pure milk and the operation is repeated once more. At the end of the two removal and replacement, what is the ratio of milk and water in the resultant mixture?

A. 9:1

B. 7:2

C. 8:1

D. 5:03

8. There are two bottles A and B, each filled with milk and water in the ratio 5:3 and 1:2 respectively. A new mixture is formed by mixing the contents of A and B in the ratio 4:3.What is the ratio of composition of milk and water in the new mixture?

A. 1:3

B. 1:2

C. 1:1

D. 3:2

9. A merchant has 1000 kg of sugar, 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. 550 kg.

B. 400 kg.

C. 600 kg.

D. 650 kg.

10. Two vessels A and B contain spirit and water mixed in the ratio 5:2 and 7:6 respectively. Find the ratio in which these mixture be mixed to obtain a new mixture in vessel c containing spirit and water in the ratio 8:5?

A. 7:9

B. 9:7

C. 3:8

D. 8:9

11. A coffee seller has two types of coffee Brand A costing 5 bits per pound and Brand B costing 3 bits per pound. He mixes two brands to get a 40 pound mixture. he sold this at 6 bits per pound. the seller gets a profit of 33 1/2 percent. how much he has used Brand A in the mixture?

A. 33 pounds

B. 25 pounds

C. 30 pounds

D. 35 pounds

12. If a and b are mixed in 3:5 ration and b and c are mixed in 8:5 ration if the final mixture is 35 liters, find the amount of b?

A. 13.34

B. 15.73

C. 16.73

D. 9.45

13. 5 coffee and 4 tea costs Rs.96, 5 badam milk and 6 coffee costs Rs. 32 and 7 tea and 6 badam milk costs Rs.37. What is the combined price of 1 tea, 1 coffee and 1 badam milk?

A. 12

B. 15

C. 20

D. 16

14. If a Strawberry and a Butterscotch together cost Rs. 18.00, a Vanilla and a Strawberry cost Rs. 9.00 and a Butterscotch cost Rs.9.00 more than a Vanilla or a Strawberry then which of the following can be the price of a Butterscotch?

A. Rs. 13.5

B. Rs.10

C. Rs. 12

D. Rs. 13

15. A vessel is full of a mixture of spirit and water in which there is found to be 17% of spirit by measure. Ten litres are drawn off and the vessel is filled up with water. The proportion of spirit is now found to be 15 1/9%. How much does the vessel hold?

A. 70 litres

B. 90 litres

C. 80 litres

D. 85 litres

16. A manufacturing company has 15% cobalt ,25% led and 60% of copper. If 5kg of led is used in a mixture, how much copper we need to use:

A. 12 kg

B. 14 kg

C. 10 kg

D. 9 kg

17. In what ratio must water be added to 10 liters of milk at Rs.20 per liter so that cost of mixture is Rs.16 per liter?

A. 3:2

B. 1:4

C. 2:3

18. Find the quantities of two types of rice to be mixed, first variety is of Rs.12 per kg and second variety is of Rs.20 per kg. to get 12kg of rice mixture worth Rs.15 per kg?

A. 3.5, 8.5

B. 7, 5

C. 7.5, 4.5

D. 8, 4

19. A milkman mixed 10 liters of water to 50 litres of milk of Rs.16 per liter, then cost price of mixture per liter is

A. Rs.15.16

B. Rs.13.33

C. Rs.15

D. Rs.14.23

20. In what ratio tea of Rs.80 per kg be mixed with 12kg tea of Rs.64 per kg, so that cost price of mixture is Rs.74 per kg?

A. 3:5

B. 5:3

C. 2:5

D. 2:3

ANSWERS

1. C

2. A

3. A

4. D

5. C

6. A

7. A

8. C

9. C

10. A

11. C

12. B

13. B

14. A

15. B

16. A

17. B

18. C

19. B

20. B