Question No: 1

A man has goods worth Rs.1000 and sold half of them at a profti of 16% and other at a certain profit. At what percentage must he sell the remainder so as to get a gain of 25%?

32%



37%



34%



CORRECT

35%



Question No: 2

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

5:15



2:18



4:17



3:17



CORRECT

Question No: 3

Nishant has two varieties of milk. One weighs 20 L costing 15 per litre and other 23 per litre. He mixes both of them and makes a new mixture which costs 18 per litre. What is the weight of other mixture?

15litres



12litres



CORRECT

24litres



9litres



Question No: 4

A dishonest seller uses a mixture having 5 parts pure alcohol and 4 parts of water. After taking out some portion of the mixture, he adds equal amount of pure water to the remaining portion of the mixture such that the amount of alcohol and water become equal. What part of mixture is taken out?

1/10



CORRECT

1/19



1/9



1/45



Question No: 5

A person uses a mixture having 8 parts pure wine and 3 parts of water. After taking out some portion of the mixture, he adds equal amount of pure water to the remaining portion of the mixture such that the amount of alcohol and water will be in the ratio 1:2. What part of mixture is taken out?

9/11



2/11



6/11



CORRECT

8/11



Question No: 6

A person uses a mixture having parts pure 4 parts alcohol and 10 parts of spirit. After taking out some portion of the mixture, he adds equal amount of spirit to the remaining portion of the mixture such that the amount of alcohol and spirit will be in the ratio 1:3. What part of mixture is taken out?

2/17



3/10



1/10



CORRECT

2/10



Question No: 7

In what ratio must a grocer mix two varieties worth 15 per kg and 31 per kg so that by selling the mixture at Rs. 18 a loss of 10% happens?

11:9



11:5



CORRECT

11:8



11:7



Question No: 8

A person uses a mixture having 6 parts pure milk and 10 parts of water. After taking out some portion of the mixture, he adds equal amount of pure water to the remaining portion of the mixture such that the amount of milk and water will be in the ratio 1:2. What part of mixture is taken out?

3/9



1/16



2/9



1/9



CORRECT

Question No: 9

A person uses a mixture having 7 parts pure wine and 3 parts of water. After taking out some portion of the mixture, he adds equal amount of pure water to the remaining portion of the mixture such that the amount of wine and water will be in the ratio 2:1. What part of mixture is taken out?

1/10



21/10



10/21



1/21



CORRECT

Question No: 10

A 40 kgs of metal has zinc and copper in the of 3:5. 16 kgs of metal is removed and replaced with pure copper. What is the ratio of zinc and copper in the new metal?

32:8



31:9



9:31



CORRECT

33:7



Question No: 11

In what ratio must a grocer mix two varieties worth 52 per kg and 29 per kg so that by selling the mixture at Rs. 48 a profit of 20% happens?

11:13



11:12



CORRECT

13:19



12:17



Question No: 12

5 rupees of rice is mixed with 9 rupees of rice in the ratio of 3:1. What the price of resultant mixture?

8



6



CORRECT

7



None of these



Question No: 13

A sample of x litres from a container having a 60 litre mixture of wine and water containing in the ratio of 2 : 3 is replaced with pure wine so that the container will have wine and water in equal proportions. What is the value of x?

30 litres



10 litres



CORRECT

None of these



6 litres



Question No: 14

Two types of gold is available. One is 24 carats purity. Other is 36 carats purity. They are mixed in the ratio of 5:7. What the purity of new mixture ?

31



CORRECT

32



35



28



Question No: 15

A 60 litre mixture of solution contains type A and type B in the ratio 3 : 2. 10 litres of the mixture is removed and replaced with type A and the operation is repeated once more. At the end of two removals and replacement, what is the ratio of type A and type B in the resultant mixture?(approximately)

47:20



43:17



CORRECT

46:19



48:18



Question No: 16

In what ratio must a grocer mix two varieties worth 14 per kg and 29 per kg so that by selling the mixture at Rs. 23 a profit of 10% happens?

7:3



8:7



CORRECT

8:5



7:1



Question No: 17

One quantity of pulses at Rs. 4.5 is mixed with another quantity at a certain rate in the ratio 4:1. If the mixture so formed be worth Rs. 5.5 per kg, What is the rate per kg of the second quality of pulses?

9.5



CORRECT

None of these



6.5



8.5



Question No: 18

Nikhil has a variety of pulses which weighs 500 kg. He sold 3/4th of them at a price of Rs. 42 per kg and rest at a certain price. At what price must he sell the remainder so as to get the resultant mixture costing 35 per kg?

14



CORRECT

12



18



24



Question No: 19

A person sells two varities of milk. One costs him 25 per litre and other costs him 36 per litre. He mixes both the varities in the ratio of 9:2. What is the price of new mixture per litre?

29



28



27



CORRECT

25



Question No: 20

A container contains 36 litres of milk. From this container, 6 litres of milk was taken out and replaced by water. This process is repeated one more time. What is the ratio of milk to water in the current mixture?

25:11



CORRECT

24:12



26:10



25:13



Question No: 21

A shopkeeper has two varities of wheat flour. One is weighing 25 kgs and other is 37 kg.

In what ratio should he combine them such that he gets a new variety which will weigh 33Kg?

3:7



5:9



4:7



CORRECT

2:9



Question No: 22

One quality of rice at Rs. 12 is mixed with another quality at a certain rate in the ratio of 4:3 . If the mixture so formed be worth Rs. 9 per kg, What is the rate per kg of the second quality rice?

7



6



5



CORRECT

8



Question No: 23

A jar contains a mixture of two liquids Acid( nitric acid) and Base(ammonium chloride) in the ratio 4 : 1. When 10 litres of the mixture is taken out and 10 litres of liquid Base is poured into the jar, the ratio becomes 2 : 3. How many litres of liquid Acid was contained in the jar?

16 lt



CORRECT

20 ltr



13 ltr



25 ltr



Question No: 24

Rice is 15 times as heavier as water and Wheat is 25 times as heavier as water. Find the ratio in which they should be mixed in order to form a mixture 18 times as heavier as water.

3:8



7:9



3:6



7:3



CORRECT

Question No: 25

A liquid is availabe in two different prices. One is 27 per litre and other is 52 per litre. They are mixed in the ratio of 3:22. What the price of new mixture per litre?

49



CORRECT

47



35



51



Question No: 26

A container contains 72 litres of milk. From this container, 12 litres of milk was taken out and replaced by water. This process is repeated one more time. How much water is now left in the container?

18



11



CORRECT

20



14



Question No: 27

A container contains 36 litres of milk. From this container, 6 litres of milk was taken out and replaced by water. This process is repeated one more time. How much milk is now left in the container?

20 litres



32 litres



25 litres



CORRECT

30litres



Question No: 28

A container contains 40 litres of milk. From this container, 20 litres of milk was taken out and replaced by water. This process is repeated one more time. What is the ratio of milk to water in the current mixture?

25:30



24:12



10:30



CORRECT

30 :10



Question No: 29

A container contains 25 litres of milk. From this container, 5 litres of milk was taken out and replaced by water. This process is repeated one more time. How much water is now left in the container?

18 litres



9 litres



CORRECT

20 litres



4 litres



Question No: 30

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?

7 : 9



CORRECT

3 : 4



3 : 4



1 : 5



Question No: 31

Cask A has gold and zinc in the ratio 6:5 and cask B has gold and zinc in the ratio 9:2. In what ratio should they be mixed such that the resultant mixure has gold and zinc in the ratio 7:4?

1:3



2:5



3:7



2:1



CORRECT

Question No: 32

A 30 litre mixture of solution contains type A and type B in the ratio 3 : 2. 5 litres of the mixture is removed and replaced with type A and the operation is repeated once more. At the end of two removals and replacement, what is the ratio of type A and type B in the resultant mixture?(approximately)

28:18



21:8



CORRECT

46:19



47:20



Question No: 33

A sample of x kgs from a container having a 52kg mixture of gold and copper containing in the ratio of 6:7 is replaced with pure copper so that the container will have gold and copper in the ratio of 9:17 What is the value of x?

13



CORRECT

15



11



17



Question No: 34

A person uses a mixture having 5 parts pure milk and 3 parts of water. After taking out some portion of the mixture, he adds equal amount of pure water to the remaining portion of the mixture such that the amount of milk and water will be in the ratio 1:2. What part of mixture is taken out?

7/11



CORRECT

3/11



2/8



3/8



Question No: 35

A sample of x litres from a container having a 48 litre mixture of milk and water containing in the ratio of 3:1 is replaced with pure milk so that the container will have milk and water in the ratio of 5:1 What is the value of x?

9 litres



10 litres



16 litres



CORRECT

6 litres



Question No: 36

A person uses a mixture having 6 parts pure wine and 5 parts of water. After taking out some portion of the mixture, he adds equal amount of pure water to the remaining portion of the mixture such that the amount of wine and water will be in the ratio 3:2. What part of mixture is taken out?

3/11



1/10



CORRECT

1/11



3/31



Question No: 37

In what ratio must a grocer mix two varieties worth 37 per kg and 69 per kg so that by selling the mixture at Rs.40 a loss of 20% happens ?

29:13



21:18



28:17



19:13



CORRECT

Question No: 38

A person has two quanlities of copper. One is of 60% pure and other is 23% pure. In what ratio should he mix two quantities such that he gets copper which is 58% pure?

7:38



39:7



2:33



35:2



CORRECT

Question No: 39

A sample of x kgs from a container having a 72kg mixture of gold and copper containing in the ratio of 2:1 is replaced with pure copper so that the container will have gold and copper in the ratio of 7:5 What is the value of x?

13 kg



17 kg



9kg



CORRECT

7 Kg



Question No: 40

Pulses of type A costs 12 per kg and pulses of type B costs 21 per kg. They are mixed in the ratio of 2:1. What is the price of new mixture per kg?

16



15



CORRECT

18



13



Question No: 41

A 40 litres mixture of juice contains water and pulp in the ratio 3 : 2. 10 litres of the mixture is removed and replaced with water and the operation is repeated once more. At the end of two removals and replacement,what is the quantity of pulp left out?

9



CORRECT

13



17



10



Question No: 42

A 160 kgs of metal has zinc and copper in the ratio of 3:5. 32 kgs of metal is removed and replaced with pure copper. What is the ratio of zinc and copper in the new metal?

3:7



CORRECT

33:7



2:8



1:9



Question No: 43

A 20 litre mixture of juice contains water and pulp in the ratio 3 : 2. 10 litres of the mixture is removed and replaced with pure pulp and the operation is repeated once more. At the end of two removals and replacement, what is the quantity of water left out?

10 litres



3 litres



CORRECT

17 litres



13 litres



Question No: 44

In what ratio must a grocer mix two varieties worth 47 per kg and 58 per kg so that by selling the mixture at Rs.60 a profit of 20% happens?

8:3



CORRECT

3:7



8:1



3:5



Question No: 45

A person uses a mixture having 7 parts pure wine and 3 parts of water. After taking out some portion of the mixture, he adds equal amount of pure water to the remaining portion of the mixture such that the amount of alcohol and water will be in the ratio 1:3. What part of mixture is taken out?

9/10



2/10



8/10



6/10



CORRECT

Question No: 46

Two bottles A and B contain diluted ammonium nitric acid. In bottle A, the amount of water is double the amount of acid while in bottle B, the amount of acid is 3 times that of water. How much mixture Should be taken from each bottle in order to prepare 5 litres of diluted sulphuric acid containing equal amount of acid and water?

1, 4



4, 1



2, 3



3, 2



CORRECT

Question No: 47

Raju has 18 litres of milk which contains certain amount of water in it. Milk and water are present in the ratio of 4:5. He removes 9 litres of mixture and replaces with pure milk. What is the ratio of milk and water in the new mixture?

12:6



13:5



CORRECT

10:8



11:7



Question No: 48

In what ratio must a grocer mix two varieties of pulses costing Rs. 20 and Rs. 28 per kg respectively so as to get a mixture worth Rs. 24.6?

17:23



CORRECT

19:25



15:22



18:24



Question No: 49

In an experiment, a sample of x litres from a container having 45 litres liquid of alcohol and spirit containing in the ratio of 4:5 is replaced with pure alcohol so that the container will have alcohol and spirit in the ratio of 2:1. What will be the ratio if it is replaced with spirit?

4:11



CORRECT

11:14



15:19



7:11



Question No: 50

In what ratio must coffee at Rs 93 per Kg be mixed with coffee at Rs 108 per Kg so that the mixture be worth Rs 100 per Kg?

1 : 5



8 : 7



CORRECT

1 : 10



7 : 8

