



spardhaguru2022



Spardhaguru Current affairs



Spardhaguru1



SpardhaGuru



Spardha.guru



www.spardha.guru



1) How many kilograms of rice of Rs.5.4 per kg should be mixed with 10 kg of rice of Rs.4.5 per kg, such that there may be gain of 20% by selling the mixture at Rs.5.94 per kg.

- a) 10 kg                      b) 12 kg  
c) 15 kg                      d) 8 kg

2) In the Mumbai Zoo, there are some ducks and some rabbits. If the head are counted there are 160, while the legs are 450. What will be numbers of Rabbit in the zoo?

- a) 65                      b) 60  
c) 95                      d) 85

3) The amount of water (in ml) that should be added to reduce 7 ml lotion, containing 70% alcohol, to a lotion containing 35% alcohol, is

- a) 35 ml                      b) 4 ml  
c) 7 ml                      d) 10.5 ml

4) In what proportion must tea at Rs. 7.50 per kg be mixed with tea at Rs. 10.50 per kg to produce a mixture worth Rs. 8.50 per kg?

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

5) Metal A costs Rs. 8.40 per gm and Metal B Rs. 0.21 per gm. In what proportion must these metals be mixed so that gram of the mixture may be worth Rs. 5.67?

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

6) A 15-litre mixture contains 20% alcohol and the rest water. If 3 litres of water is mixed in it, then the percentage of alcohol in the new mixture will be

- a) 17%                      b)  $16\frac{2}{3}\%$   
c)  $18\frac{1}{2}\%$                       d) 15%

7) A mixture of 20 kg of water and spirit contains 10% water. How much water must be added to this mixture to raise the percentage of water to 25%?

- a) 4 kg                      b) 5 kg  
c) 8 kg                      d) 30 kg

8) A sum of money is sufficient to pay Sachin's salary of 45 days and kale's salary for 60 days. For how many days can the sum pay the salary of both?

- a) 25 days                      b) 280/11 days  
c) 180/7 days                      d) 270/11 days

9) A grocer buys two kinds of rice at Rs. 1.80 and Rs. 1.20 per kg respectively. In what proportion should these be mixed, so that by selling the mixture at Rs. 1.75 per kg 25% may be gained?

- a) 2 : 1                      b) 3 : 2  
c) 3 : 4                      d) 1 : 2







10) A and B are two alloys of iron and silver prepared by mixing metals in the ratio 4 : 5 and 7 : 5 respectively. If equal quantities of alloys are melted to form a third alloy C, the ratio of iron to silver in C is

- a) 37 : 35                      b) 19 : 18  
c) 31 : 25                      d) 29 : 35

11) The ratio of milk and water in 66 kg of adulterated milk is 5 : 1. Water is added to make the ratio 5 : 3. The quantity of water added is

- a) 22 kg                      b) 24.75 kg  
c) 16.50 kg                      d) 20 kg

12) A mixture, 729 ml in volume, contains milk and water in the ratio 7 : 2. How much more water is to be added to get a new mixture containing milk and water in the ratio 7 : 3?

- a) 600 ml                      b) 710 ml  
c) 520 ml                      d) None of these

13) A mixture of 24 litres contains water and milk in the ratio 3 : 5. How much water must be added to this mixture to reverse the ratio?

- a) 20 litres                      b) 24 litres  
c) 18 litres                      d) 16 litres

14) A trader mixes two varieties of tea costing Rs 40 per kg and rupees 50 per kg in the ratio 5 : 4. If the mixture is sold at

rupees 48 per kg question, then what is the gain percentage?

- a) 7.5 %                      b) 8%  
c) 2.5 %                      d) 5%

15) From two ornament Weighing 18 gram and 24 gram containing gold and silver in the ratio of 2 : 1 and 5 : 1 respectively, a new ornament is made. What is the amount of gold in the new ornament?

- a) 10 gram                      b) 12 gram  
c) 32 gram                      d) 28 gram

16) A and B are two alloys of gold and copper prepared by mixing metals in proportions 5 : 3 and 5 : 11 respectively. If equal quantities of this alloys are melted to a third alloy C, what would be the proportion of gold and copper in the alloys thus formed?

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

17) In a mixture of milk and water of the volume of 80 liter the ratio of milk to water is 3 : 2. How much quantity of water will be added to make mixture is equal ?

- a) 16                      b) 15  
c) 12                      d) 18

18) In what ratio must rice at rs.60 per kg be mixed with rice of rs.74 per kg, so that the mixture must be worth rs.64 per kg ?





### Mixture & Alligation

10 Years of Excellence



spardhaguru2022



Spardhaguru Current affairs



Spardhaguru1



SpardhaGuru



Spardha.guru



www.spardha.guru



a) 2 : 1

b) 2 : 5

c) 4 : 3

d) 5 : 2

19) A vessels contains 80 liters of wine, 20 liters are taken out from vessel is replaced by water and the same process is further replaced two times, then find the quantity of wine left in final solution ?

a) 12.45 liter

b) 30.60 liter

c) 33.75 liter

d) 40.85 liter

20) Two alloy A and B are made of copper and zinc in the ratio of 4 : 1 and 4 : 3 respectively. If these two alloys are to be mixed to form a new alloy in which same elements are in the ratio 2 : 1, then what is ratio of alloy A and alloy B in the new alloy ?

a) 2 : 3

b) 4 : 5

c) 3 : 2

d) 5 : 7

21) In a mixture of wine and water is in the ratio of 5 : 3. If 16 liters of mixtures taken out and replaced with water, so that the ratio of wine and water becomes 3 : 5. Find the initial quantity of wine in the mixture.

a) 24

b) 28

c) 24

d) 25

22) A vessels contains mixture in which 20% water and rest quantity is milk. If 28 liter of more water is to be added in the vessel , then quantity of water becomes

3/8th of mixture. What is the quantity of milk in the vessel initially ?

a) 80 liters

b) 65 liters

c) 42 liters

d) 68 liters

23) Two mixtures A and B in the ratio of juice and water are 3 : 1 and 1 : 2 respectively, mixed in the ratio of 2 : 3. If the juice in final mixture is 48 liter, then find the quantity of water in final mixture ?

a) 252

b) 250

c) 144

d) 245

24) A seller mixed sugar cost rs.45 per kg with sugar cost rs. 38 per kg. These mixture he sold at rs.48 per kg so that he can earn 20% profit. Find in what ratio he mixed the two types of sugar ?

a) 4 : 3

b) 6 : 7

c) 2 : 5

d) 1 : 2

25) A container contains 60 liters of milk 6 liters of milk taken out from this container and replaced by water. This process was replaced further two times. How much amount of milk left in the container ?

a) 38.28 liters

b) 43.74 liters

c) 24.63 liters

d) 52.68 liters

26) The ratio of quantity of two varieties of rice of 3 : 2 is mixed. If the of variety of more quantity rice is rs. 15 and the price of the mixture is rs.16.2 per kg, then find the







price of per kg rice which is the less quantity.

a) 15.2

b) 16.3

c) 17.5

d) 18.7a

a) 14 b) 18

c) 17 d) 20

27) A shopkeeper mixes 30 kg of type A rice of Rs.40/kg and 45 kg of type B rice of Rs.30/kg, then find the price of formed mixture of rice.

a) 34 b) 80

c) 23 d) 60

28) Mixture A of milk and water contains 75% milk and mixture B of milk and water contains 10% water, then find the ratio in which these two mixtures are mixed to form a third mixture which contains 15% water in it.

a) 1:2 b) 2:5

c) 7:8 d) 5:4

29) A shopkeeper sells type A rice at 20% profit and type B rice at 15% loss. If overall he earns 13% profit, then find the cost price of type A rice to type B rice.

a) 4:8 b) 4:1

c) 4:5 d) 4:3

30) A shopkeeper purchased a table for Rs.1200 and sold it at 20% profit, he purchased a chair at Rs.400 and sold it at 10% profit, the find the overall profit percent earned by him.

