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1) 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) None of these

2) 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

3) 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

4) 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

5) 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

6) 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

7) 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

8) 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





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9) 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

10) 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

11) 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 litres

12) A mixture of milk and water in a jar contains 29 Liters milk and 9 Liters water. To this mixture, Y Liters milk and Y Liters water are added. If 60% of the new mixture is 36 L, then find the value of Y.

- a) 7 Litres b) 11 Litres
c) 13 Litres d) 15 Litres

13) 12. A vessel of 80 l is filled with milk and water in parts separately. 75% of milk and 25% of water is taken out of the vessel. It is found that the vessel is vacated by 60%. Find the initial quantity of water.

- a) 24 litres b) 27 litres
c) 32 litres d) 36 litres

14) An alloy contains a mixture of Zinc, Copper and Iron in the ratio of 4 : 5 : 7. If 24 kg of mixture is taken out and 5 kg of Zinc and 12 kg of Iron is mixed in the alloy. In the resultant mixture quantity of Iron is 26 kg more than Copper, then what is total quantity of initial mixtures?

- a) 106 kg b) 112 kg
c) 121 kg d) 136 kg

15) How many litres of a 90% of concentrated acid needs to be mixed with a 75% Solution of concentrated acid to get a 30 liter Solution of 78% concentrated acid?

- a) 8 b) 9
c) 7 d) 6

16) A zookeeper counted the heads of the animals in a zoo and found it to be 80. When he counted the legs of the animals he found it to be 260. If the zoo had either pigeons or horses, how many horses were there in the zoo? In the zoo, each horse had four legs and each pigeon had two legs.



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- a) 40 b) 30
c) 50 d) 60

17) There are two types of sugar. One is priced at Rs 62 per kg and the other is priced at Rs 72 per kg. If the two types are mixed together, the price of new mixture will be Rs 64.50 per kg. Find the ratio of the two types of sugar in this new mixture

- a) 2:5 b) 3:1
c) 6:7 d) 3:2

18) A certain quantity of water is mixed with milk priced at Rs 12 per litre. The price of mixture is Rs 8 per litre. Find out the ratio of water and milk in the new mixture.

- a) 3:2 b) 1:2
c) 5:2 d) 2:1

19) A vessel is filled with liquid, 3 parts of which are water and 5 parts syrup. How much of the mixture must be drawn off and replaced with water so that the mixture may be half water and half syrup?

- a) $\frac{1}{3}$ b) $\frac{1}{4}$
c) $\frac{1}{5}$ d) $\frac{1}{7}$

20) 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. 169.50 b) Rs. 170
c) Rs. 175.50 d) Rs. 180

21) A can contains a mixture of two liquids A and B in 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

22) 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 litres, 8 litres
b) 6 litres, 6 litres
c) 5 litres, 7 litres
d) 7 litres, 5 litres

23) A dishonest milkman professes to sell his milk at cost price but he mixes it with water and thereby gains 25%. The percentage of water in the mixture is:

- a) 4% b) $6\frac{1}{4}\%$
c) 20% d) 25%

24) How many kilogram of sugar costing Rs. 9 per kg must be mixed with 27 kg of



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sugar costing Rs. 7 per kg so that there may be a gain of 10% by selling the mixture at Rs. 9.24 per kg?

- a) 36 kg b) 42 kg
c) 54 kg d) 63 kg

25) A container contains 40 litres of milk. From this container 4 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 litres b) 27.36 litres
c) 28 litres d) 29.16 litres

26) A jar full of whisky contains 40% alcohol. A part of this whisky is replaced by another containing 19% alcohol and now the percentage of alcohol was found to be 26%. The quantity of whisky replaced is:

- a) $\frac{1}{3}$ b) $\frac{2}{3}$
c) $\frac{2}{5}$ d) $\frac{3}{5}$

27) 8 litres are drawn from a cask full of wine and is then filled with water. This operation is performed three more times. The ratio of the quantity of wine now left in cask to that of the water is 16 : 65. How much wine the cask hold originally?

- a) 18 litres b) 24 litres
c) 32 litres d) 42 litres

28) A container contains a mixture of two liquids P and Q in the ratio of 7:5. When 9 liters of mixture is taken out and replaced with Q, the ratio becomes 7:9. Find the quantity of liquid P in the container.

- a) 252 b) 340
c) 865 d) 650

29) A container contains 40 liters of milk. From this container, 4 liters of milk were taken out and replaced by water. This process was repeated further two times. How much milk is now contained in the container?

- a) 26 liters b) 29.16 liters
c) 28 liters d) 28.2 litres

30) 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 removals and replacement, what is the ratio of milk and water in the resultant mixture?

- a) 17 : 3 b) 9 : 1
c) 3 : 17 d) 5 : 3

31) In what ratio, water must be mixed with fruit juice costing Rs.24 per litre so that the juice would be worth of Rs.20 per litre?

- a) 1:4 b) 1:5
c) 1:6 d) 2:5





32) One type of liquid contains 25 % of benzene, the other contains 30% of benzene. A can is filled with 6 parts of the first liquid and 4 parts of the second liquid. Find the percentage of benzene in the new mixture.

- a) 28 % b) 25 %
c) 30 % d) 27 %

33) How many kgs of Basmati rice costing Rs.42/kg should a shopkeeper mix with 25 kgs of ordinary rice costing Rs.24 per kg so that he makes a profit of 25% on selling the mixture at Rs.40/kg?

- a) 20.0 kgs b) 12.5 kgs
c) 16.0 kgs d) 200.0 kgs

34) A grocer wishes to sell a mixture of two variety of pulses worth Rs.16 per kg. In what ratio must he mix the pulses to reach this selling price, when cost of one variety of pulses is Rs.14 per kg and the other is Rs.24 per kg?

- a) 2:5 b) 4:3
c) 2:1 d) 4:1

35) Cost of two types of pulses is Rs.15 and Rs. 20 per kg, respectively. If both the pulses are mixed together in the ratio 2:3, then what should be the price of mixed variety of pulses per kg?

- a) Rs. 22 per kg

- b) Rs. 30 per kg
c) Rs. 10 per kg
d) Rs. 18 per kg

36) A dealer has 1000 kg sugar and he sells a part of it at 8% profit and the rest of it at 18% profit. The overall profit he earns is 14%. What is the quantity which is sold at 18% profit?

- a) 250 kg b) 600 kg
c) 620 kg d) 400 kg

37) How much coffee of variety A, costing Rs. 5 a kg should be added to 20 kg of Type B coffee at Rs. 12 a kg so that the cost of the two coffee variety mixture be worth Rs. 7 a kg?

- a) 25 kg b) 34 kg
c) 55 kg d) 50 kg

38) How much sugar at Rs. 9.5 a kg should be added to 17 kg of tea at Rs. 20 a kg so that the mixture be worth Rs. 13 a kg.?

- a) 11 kg b) 17 kg
c) 21 kg d) 34 kg

39) A hospital uses a mixture of salt and water at Rs. 7.62/litre. This mixture contains 5 % salt. Another mixture containing 75 % water costs Rs. 7.82/litre. How much does the patient pay if he buys 5 litres of mixture containing 18% salt?

- a) Rs. 83.75 b) Rs. 73.85





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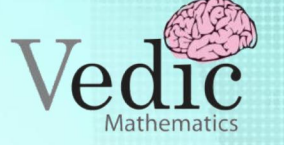
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c) Rs. 37.85

d) Rs. 38.75

40) How many kg of custard powder costing Rs. 42 per kg must be mixed with 16 kg of custard powder costing Rs. 60 per kg so that 20 % may be gained by selling the mixture at Rs. 60 per kg?

a) 11 kg

b) 14 kg

c) 12 kg

d) 20 kg

