

1. In what proportion must a grocer mix wheat at ₹ 2.04 per kg and ₹ 2.88 per kg to make a mixture of worth ₹ 2.52 per kg? [PNB Clerk 2008]

- (a) 2:3 (b) 3:2
(c) 5:3 **(d) 3:4**
(e) None of these

2. A mixture of certain quantity of milk with 8 L of water is worth 45 paise per litre. If pure milk is worth 54 paise per litre, how much milk is there in the mixture? [Hotel Mgmt. 2010]

- (a) 40 L** (b) 35 L
(c) 25 L (d) 45 L

3. A merchant has 2000 kg of rice, one part of which he sells at 36% profit and the rest at 16% profit. He gains 28% on the whole. Find the quantity sold at 16%. [SBI Clerk 2011]

- (a) 400 kg (b) 300kg
(c) 900 kg **(d) 800 kg**
(e) None of these

4. A person has ₹ 8400. He lent a part of it at 4% and the remaining at $3\frac{1}{3}\%$ simple hag interest. His total annual income was ₹ 294. Find the sum he lent at 4%.

- (a) ₹ 2310 (b) ₹ 2110
(c) ₹ 2500 **(d) ₹ 2100**
(e) None of these

5. A merchant has 50 kg of pulse. He sells one part at a profit of 10% and other at 5% loss. Overall, he had a gain of 7%. Find the quantity of pulses, which he sold at 10% profit and 5% loss.

- (a) 40 kg, 10 kg** (b) 40 kg, 15 kg
(c) 40 kg, 12 kg (d) 40 kg, 9 kg

6. A milkman bought 15 L of milk and mixed 3 L of water in it. If the price per kg of the mixture becomes ₹ 22, what is cost price of the milk per litre? (CDS 2012)

- (a) ₹ 28.00 **(b) ₹ 26.40**
(c) ₹ 24.00 (d) ₹ 22.60

7. In a mixture of 150 L, the ratio of milk to water is 2: 1. What amount of water should be further added to the mixture to make the ratio of the milk to water 1: 2 respectively? [NICL AO (Pre) 2017]

- (a) 145 L (b) 160 L
(c) 180 L **(d) 150 L**
(e) Other than those given as options

8. 300 g of sugar solution has 40% of sugar in it. How much sugar should be added make it 50% in the solution? [SSC CGL (Mains) 2015]

- (a) 80 g **(b) 60 g**
(c) 120 g (d) 40 g

9. 25 kg of alloy X is mixed with 125 kg of alloy Y. If the amount of lead and tin in the alloy X is in the ratio 1 : 2 and the amount of lead and tin in the alloy Y is in the ratio 2 : 3, then what is the ratio of lead to tin in the mixture? [CDS 2017 (I)]

- (a) 1 : 2 (b) 2 : 3
(c) 3 : 5 **(d) 7 : 11**

10. A vessel of 160 L is filled with milk and water. 70% of milk and 30% of water is taken out of the vessel. It is found that the vessel is vacated by 55%. Find the quantity of milk and water in this mixture.

- (a) Milk 100 L ; Water = 60 L**
(b) Milk 50 L ; Water = 110 L
(c) Milk = 70 L ; Water = 90 L
(d) Milk 60 L ; Water = 100 L
(e) None of the above

11. A vessel contains liquids P and ratio 5 : 3. If 16 L of the mixture are removed and the same quantity of liquid Q is added, the ratio becomes 3 : 5. What quantity does the vessel hold? [RRB Clerk (Pre) 2017]

- (a) 35 L (b) 45 L
(c) 40 L (d) 50 L
(e) None of these





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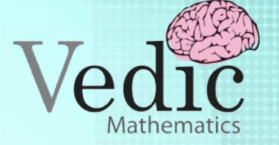
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12. Jar A contains 'X' L of pure milk only. A 27 L mixture of milk and water in the respective ratio of 4: 5, is added to jar A. The new mixture thus formed in jar A contains 70% milk, what is the value of X?

[IBPS Clerk (Pre) 2016]

(a) 23 L

(b) 30 L

(c) 27 L

(d) 48 L

(e) 28 L

13. A jar has 40 L milk. From the jar, 8 L of milk was taken out and replaced by an equal quantity of water. If 8 L of the newly formed mixture is taken out of the jar, what is the final quantity of milk left in the jar?

[IBPS SO 2016]

(a) 32.5 L

(b) 30 L

(c) 25.6 L

(d) 24.2 L

(e) 24 L

14. Tea worth ₹ 126 per kg and ₹ 135 per kg are mixed with a third variety in the ratio 1: 1: 2. If the mixture is worth ₹ 153 per kg, the price of the third variety per kg will be

[SSC (10+2) 2012]

(a) ₹ 169.50

(b) ₹ 170.0

(c) ₹ 175.50

(d) ₹ 180.0

15. From a container having pure milk, 20% is replaced by water and the process is repeated thrice. At the end of the third operation, purity of the milk is

[SSC CGL 2014]

(a) 45%

(b) 56%

(c) 51.2%

(d) 48.8%

16. The respective ratio of milk and water in the mixture is 4: 3 respectively. If 6 L of water is added to this mixture, the respective ratio of milk and water become 8 : 7. What is the quantity of milk in the original mixture?

[IBPS Clerk 2015]

(a) 96 L

(b) 36 L

(c) 84 L

(d) 48 L

(e) None of these

17. Two containers of equal capacity are full of mixture of oil and water. In the first the ratio of oil to water is 4 : 7 and in the second, it is 7 : 11. Now, both the mixtures are mixed in a bigger container What is the resulting ratio of oil to water?

[XAT 2015]

(a) 149 : 247

(b) 247 : 149

(c) 143 : 241

(d) 241 : 143

(e) None of these

