1. In what ratio wheat costing Rs.12 per kg should be mixed with wheat costing Rs. 20 per kg so that the cost of resulting mixture is Rs.15 per kg?
(1) 2:1 (2) 3:5 (3) 3:2 (4) 2:3
(5) 5 : 3

2. In what ratio 30% alcohol solution should be mixed with 40% alcohol solution so that the concentration of alcohol in the resulting mixture is 32%.?
(1) 3:1 (2) 4:1 (3) 3:2 (4) 2:3
(5) 2 : 1

3. In what ratio should water and 90% milk solution be mixed, so that a 60% milk solution is formed?
(1) 2 : 1 (2) 1 : 2 (3) 1 : 4 (4) 4 : 1
(5) 3 : 4

4 . How much quantity of sugar costing Rs. 20 per Kg should be mixed with 60kg of sugar costing Rs.30 per kg so that cost of the mixture formed is Rs. 24 per kg.
(1) 30 kg (2) 90 kg (3) 45 kg (4) 50kg
(5) 48 kg

5. What quantity of wheat at Rs. 10 per kg should be mixed with 48 kgs of wheat at Rs. 6 per kg ,such that a profit of 25% is earned on selling the mixture at Rs. 10 per kg?
(1) 52 Kg (2) 48 kg (3) 36 kg (4) 40 kg
(5) 46 kg

6. A solution having milk and water in the ratio 2 : 5 is mixed with another solution having the milk and water ratio 5 : 2 the resultant solution has milk and water in equal quantities. In what ratio were the two solutions mixed?
(1) 2 : 1 (2) 1 : 2 (3) 1 : 1 (4) 3 : 1
(5) 1 : 3

7. Rs 15000 is lent out in two parts – one at 8% p.a simple interest and the other at 10% p.a simple interest. If at the end of the first year, the total interest received is Rs 1,350 then, find the amount invested at 8% p.a simple interest.
(1) Rs 9,000 (2) Rs 8,000 (3) Rs 6,000
(4) Rs 7,500 (5) Rs 10,000

8. From a vessel containing 100litre pure milk, 10 litre of milk is removed and replaced with water. The process is repeated once again. What is the quantity of pure milk left in the solution?
(1) 90 litre (2) 80 litre (3) 81 litre (4) 72 litre
(5) 79 litre