18PDM301L - Analytical and Logical Thinking Skills Worksheet - Mixtures and Solutions

1. One variety of sugar costing Rs. 15/kg is mixed with another variety of sugar costing Rs 20/kg, then which of the following is true, about the

average cost of the mixture?

a) It is greateb) It is less thec) It can taked) None of the	nan Rs 15/1 any value	kg	& 20 but not on	e of the two.			
	0% milk. Fi		re of a solution on the contage of water in c) 50%	of milk & water n the final mixture. d) 75%			
3. A mixture of water and milk contains 75% milk. In 60 liter of such a mixture how much water should to be added to make the concentration of water as 50%?							
a) 30 L	b) 50	L	c) 40 L	d) 45 L			
4. 3 litre of Hydrochloric acid solution contains 40% of water is mixed with 2 litre of Hydrochloric acid solution contains 60% of water. Find the percentage of Hydrochloric acid in the resultant mixture. a) 50% b) 51% c) 52% d) 53%							
5. 20 litre of a salt solution containing 83% water is exposed to sunlight for 10 days. After 10 days, if the water content in the remaining solution is 20%. Find the volume of the remaining solution. a) 8L b) 4L c) 4.25L d) 4.5L							
6. In fresh grapes water content is 76%. In dried grapes water content is 20%. If I have 10 kg fresh grapes how many kgs of dried grapes can be made?							
a) 3kg t	o) 4kg	c) 5kg	d) 2kg				
ethanol and added to this	water in the mixture to	e mixture is	5:3, then how m ratio of ethanol	& water. If the ratio of such water should be and water?			
8. A shopkeeper mixes 30 Kg of rice at the rate of Rs 40 per Kg and 20 Kg of rice at the rate of Rs 50 per Kg. At what rate per Kg should he sell the mixture in order to get 25% profit? a) Rs 44 b) Rs 45 c) Rs 55 d) None of these							
•	g Rs.5.40 p at Rs. 7.20	er kg so that per kg?	t 20% gain may	be mixed with 36 kg of be obtained by selling			
10. A mixture of certain quantity of milk with 14L of water costs Rs 15 per L. If pure milk be cost Rs 25 per L and water is freely available, How much milk is there in the mixture?							
a) 14L t			d) 7L				

11. A dishonest milkman professes to sell his milk at cost price but he mixes water in pure milk and thereby gains 50%. Find the percentage of water he						
adds to pu a) 50%	b) 33.33%	c) 40%	d) 42.5%			
12. 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) 109 b) 218 c) 351 d) 175.5						
13. A container contains 40L of milk, from this 4L of milk is taken out and replaced by water. This process is repeated further 2 times. How much milk is now contained by the container? a) 28L b) 12L c) 29.16L d) 28.16L						
14. 8L is drawn from a cask full of wine and is filled with water. This process is performed three more times. The ratio of the quantity of wine now left in the cask to that of water is 16:65. How much wine did the container had initially?						
a) 24L	b) 40L	c) 16L	d) 48L			
15. There are two bottles A and B, each filled with milk and water in the ratio 5:3 and 1:2 respectively. A new mixture is formed by mixing the contents of A and B in the ratio 4:3. What is the ratio of composition of milk and water in the new mixture?						
a) 6:5	b) 24:15	c) 1:1	d) 9:10			
16. The ratio of acid 1 to acid 2 in the container A is 3:2 and it is 3:7 in container B. In what ratio should they be mixed so the resultant ratio of acid 1 to acid 2 in container C is 1:1? a) 2:1 b) 1:1 c) 1:2 d) 2:3						
17. A can contains a mixture of two liquids A and B is 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) 28	b) 21	c)35	d) 14			
18. The average salary of all the workers in a workshop is Rs. 8,000/ The average salary of 7 technicians is Rs. 12,000/- and the average salary of the rest is Rs. 6,000/ The total number of the workers in the workshop is a) 14 b) 21 c) 7 d) 35						
19. A sum of Rs.10,000 is lent under simple interest partly @ 5% p.a. and the remaining @ 7% p.a. for one year. If the total interest earned is Rs.600 then find the sum invested @ 7% p.a.? a) Rs. 5,000 b) Rs. 5,500 c) Rs. 4,000 d) Rs. 4,500						
a) Rs. 5,00	o b) Ks	5. 5,500	c) Rs. 4,000	d) Rs. 4,500		
20. A merchant has 2000 Kg of rice, part of which he sold at 36% profit and the rest at 16% profit. He gains 28% on the whole. Find the quantity sold at 16% profit.						
a) 600 Kg			d) 800 Kg			