MIXTURES & ALLIGATIONS

1.	6 litres of a mixture contains milk and water in the ratio 5:3. How much milk should be removed om this mixture, so that the resulting mixture has milk and water in the ratio 4:3?							
	a. 4	b.	3	c.	2	d.	1	
2.	In a mixture of 80 litres, the ratio of milk and water is 4:1. If the ratio of milk and water has to become 1:4, the amount of water (in litres) to be added further is							
	a. 10	b.	240	c.	150	d.	180	
3.	A vessel contains a mixture of syrup must be drawn so that						•	
	a. 9	b.	10	c.	12	d.	15	
4.	A milk man mixes 20 litres o adds water to replenish the	sto	ck. What is the current	pro	portion of water to m	ilk?		
	a. 2:3	b.	1:2	c.	1:3	d.	3:4	
5.	In what ratio must a grocer respectively so as to get a m		-		sting Rs. 40 per kg and	Rs.	50 per kg	
	a. 1:2	b.	2:3	c.	1:1	d.	3:4	
6.	In what ratio must a variety costing Rs.48 per kg so that		= -	_		arie	ety of rice	
	a. 1:2	b.	2:1	c.	3:4	d.	4:3	
7.	In what ratio must water be per litre?	mix	ed with milk costing R	s.12	per litre to obtain a n	nixt	ure worth Rs.8	
	a. 1:8	b.	1:2	c.	4:9	d.	4:3	
8.	On a certain assembly line, t combined rejection rate for production?		_		-	-		
	a. 3:1	b.	1:3	c.	1:2	d.	2:1	
9.	In what proportion must two that 10% profit is earned by		_			er k	g be mixed so	
	a. 1:1	b.	1:2	c.	2:3	d.	4:3	
10.	Priya bought two varieties of ratio. Then she sold the mixt which the two varieties of ri	ure	at Rs. 67.2 per kg, ma	_				

c. 2:7

a. 1:5

b. 2:3

d. 3:4

MIXTURES & ALLIGATIONS

11. The cost of Type A barley is Rs. 15 per kg and Type B barley is Rs. 20 per kg. If Type A and Type B

	are mixed in the ratio of 3:7, then the price (per kg) of the mixed variety of barley will be							
	a.	Rs. 18.5	b.	Rs. 19	c.	Rs. 19.5	d.	Rs. 18
12.	these	• •		•		of Shimla apples is Rs 2, then the cost (per de		•
	-	220	b.	230	c.	210	d.	240
13.	Two v	arieties of tea worth F	Rs. 1	26 per kg and Rs. 135	per	kg are mixed with a tl	nird	variety in the
	ratio 1	:1:2. If the mixture is	wor	th Rs. 153 per kg, the $ $	pric	e (per kg) of the third	vari	ety of tea is
	a.	Rs. 169.5	b.	Rs. 170	c.	Rs. 175.5	d.	Rs. 180
14.		many litres of 90% con on to get a 30 litre solu				s to be mixed with 75% d solution?	6 co	ncentrated acid
	a.	3	b.	4	c.	6	d.	10
15.		many litres of 100% co get 95% concentrate			be a	added to 20 litres of 80)% c	concentrated
	a.	70	b.	60	c.	40	d.	None
16.	added	son sold a mixture of 5 to 100 litres of mixtur 150	e to		nten	How much pure milk (at to 2%? 200		tres) must be
17.						res of such mixture, ho)w n	nany litres of
		are required to increa		_				10
	a.	40	b.	30	c.	20	d.	10
18.		· · · · · ·		· -		0%vanaspati ghee. If 1 Find the original quan		
	a.	10 kg	b.	15 kg	c.	25 kg	d.	20 kg
19.		man mixes 400L of m	ilk d	of 0.6concentration w	ith 2	200L of water. What is	the	concentration
	a.	0.3	b.	0.4	c.	0.5	d.	0.6
20.		onest milkman profes 25%. Find the percenta			-	e, but he mixes it with	ı wa	iter and thereby
	a.	10%	b.	20%	c.	25%	d.	3.33%
21.		onest milkman profes 50%. Find the percenta			-	e, but he mixes it with	า wa	ater and thereby

a. 50%

b. 33.33%

c. 25%

d. 20%

MIXTURES & ALLIGATIONS

22. A dishonest milkman professes to sell his milk at cost price, but he mixes it with water and thereby

	gains X	gains X%. The percentage of water in the mixture is 16.66%. Find the value of X.						
	a.	10%	b.	20%	c.	25%	d.	3.33%
23.	A shop	okeeper has 50 kg of r	ice.	He sells a part it at 10 ^o	% pı	rofit and remaining at	5%	loss. He gains
		•		tity of rice sold at 10%	•			
	a.	40 kg	b.	30 kg	c.	20 kg	d.	10 kg
24.	24. A merchant has 1000 kg of sugar, part of which he sells at 8% profit and the rest at 18% profit. He gains 14% on the whole. The quantity of sugar sold at 18% profit is							
	_		-	560			A	640
	a.	400	υ.	500	ι.	600	u.	040
25.	25. A business man sold 2/5 th of his stock at a gain of 20% and the rest at a gain of 15%. The overall percentage gain was							
	a.	113%	b.	15%	c.	17%	d.	19%
26.		_	_	r, part of which he sel		-	est a	at 15% profit. He
	_		-	antity of sugar sold at		•		
	a.	6000	b.	3000	c.	5000	d.	8000
27.	27. A man bought goods worth Rs.6000 and sold half of them at a gain of 10%. At what gain percent must he sell the remainder so as to get a gain of 25% on the whole?							
	a.	10%	b.	20%	c.	40%	d.	45%
	replace presen a.	ed with water. This pro It in the container in th 26.64	oces ne e b.	27.36	ore	times. How much mil	k (ir d.	litres) was 29.16
23.	29. 8 litres of wine are drawn from a cask and is then filled with water. The operation 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 (in litres) did the cask hold initially?							
				·	•	15	4	40
	a.	24	D.	30	C.	15	a.	40
30.	replace	·	pro ue o	is removed from a tan ocess is repeated six til of "a" in litres. 81	mes	_	onta	
	a.	Z T J	IJ.	01	C.	<i>L1</i>	u.	50