

PSC , Bank(Clerk/PO), SSC, Railways, S.I. , Classes

Director - Rajeev Sir, Mob.& WhatApp No. 199826072042

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MIXTURE

INTRODUCTION

1. Alligation:

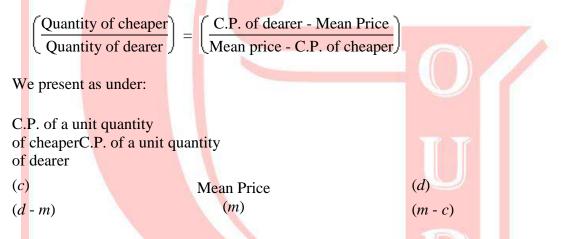
It is the rule that enables us to find the ratio in which two or more ingredients at the given price must be mixed to produce a mixture of desired price.

2. Mean Price:

The cost of a unit quantity of the mixture is called the mean price.

3. Rule of Alligation:

If two ingredients are mixed, then

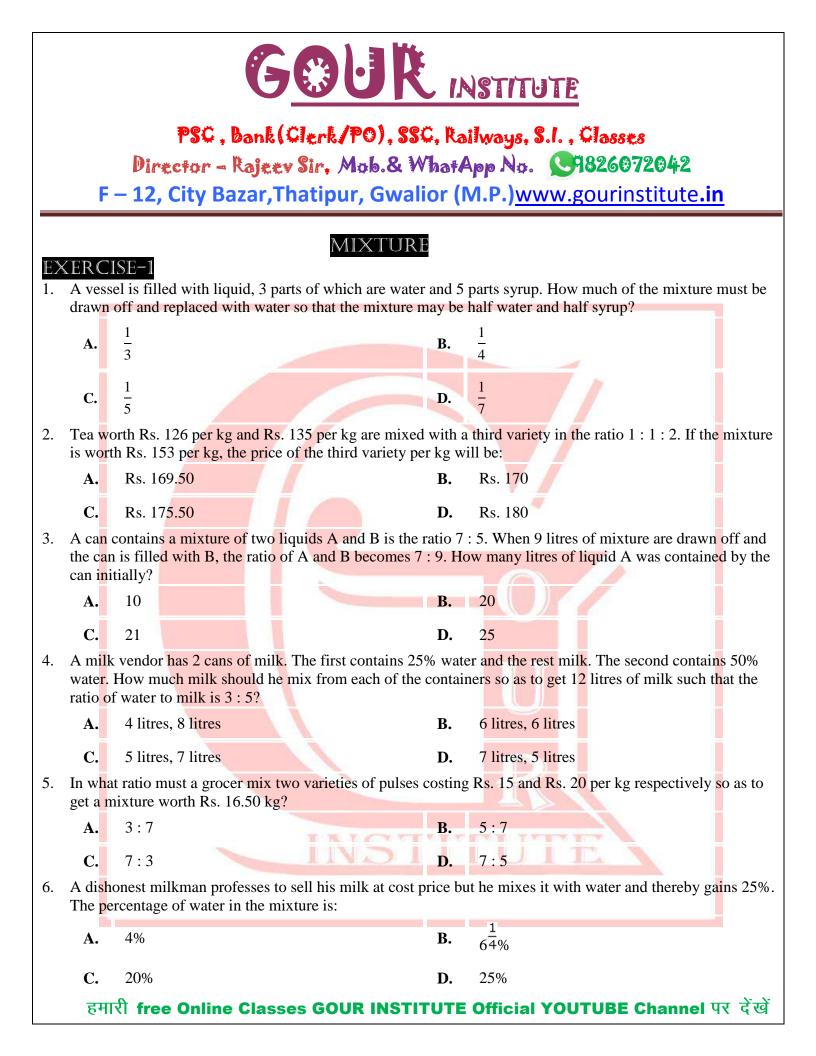


: (Cheaper quantity) : (Dearer quantity) = (d - m) : (m - c).

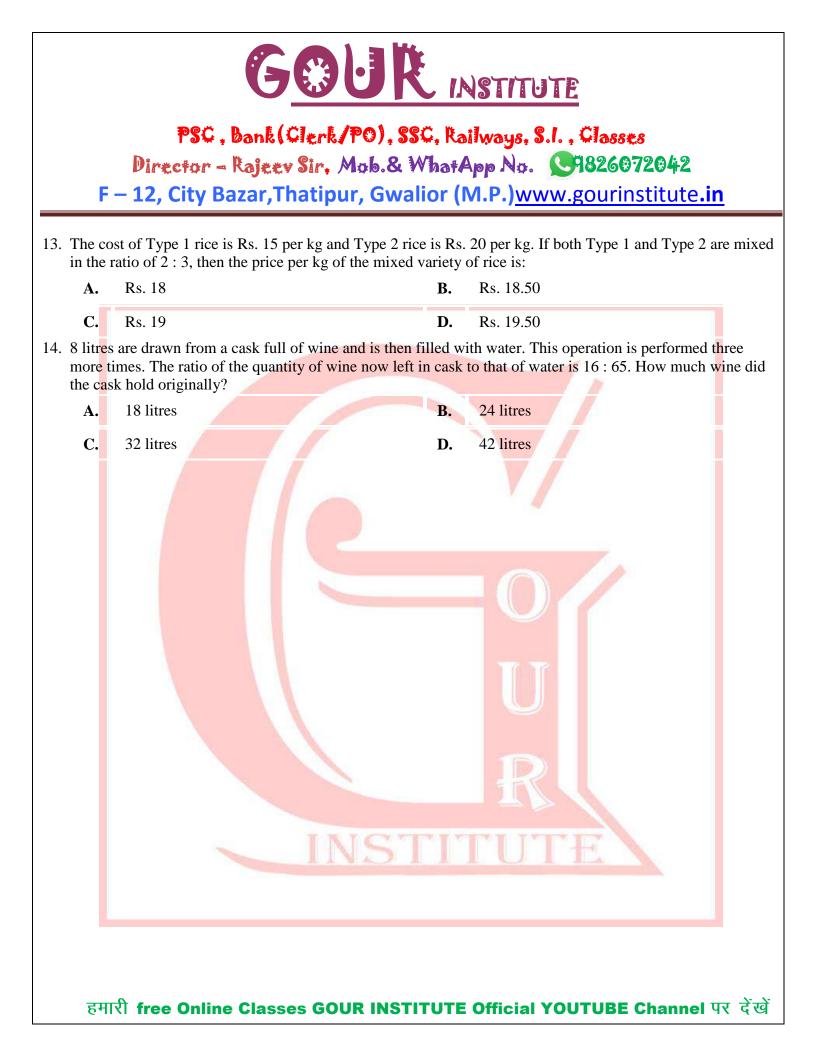
4. Suppose a container contains x of liquid from which y units are taken out and replaced by water.

After *n* operations, the quantity of pure liquid = $\left[x\left(1-\frac{y}{x}\right)^n\right]$ units.

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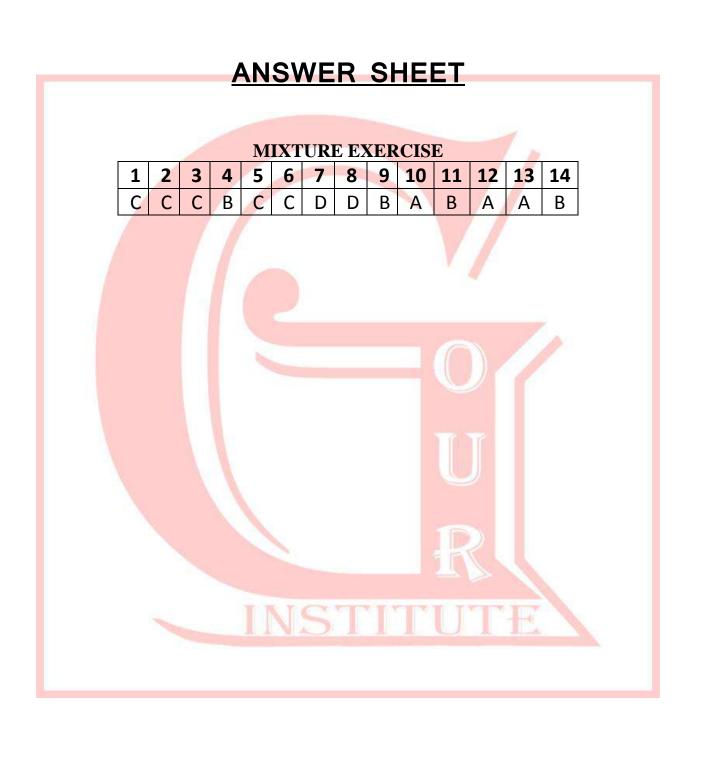


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7.	How many kilogram of sugar costing Rs. 9 per kg must be mixed with 27 kg of sugar costing Rs. 7 per kg so that there may be a gain of 10% by selling the mixture at Rs. 9.24 per kg?			
				42 kg
	C.	54 kg	D.	63 kg
8.		tainer contains 40 litres of milk. From this contai	Concession in the local division of the loca	
	water. This process was repeated further two times. How much milk is now contained by the container?			
	А.	26.34 litres	В.	27.36 litres
	C.	28 litres	D.	29.16 litres
9.	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:			
		1		2
	А.	3	В.	3
	C.	$\frac{2}{5}$	D.	$\frac{3}{5}$
10. In what ratio must water be mixed with milk to gain 163% on selling the mixture at cost price?				
	А.	1:6	B.	6:1
	C.	2:3	D.	4:3
11. Find the ratio in which rice at Rs. 7.20 a kg be mixed with rice at Rs. 5.70 a kg to produce a mixture worth Rs. 6.30 a kg.				
	A.	1:3	B.	2:3
	C.	3:4	D.	4:5
		INST	I	TUTE
12. In what ratio must a grocer mix two varieties of tea worth Rs. 60 a kg and Rs. 65 a kg so that by selling the mixture at Rs. 68.20 a kg he may gain 10%?				
	А.	3:2	B.	3:4
	C.	3:5	D.	4:5
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