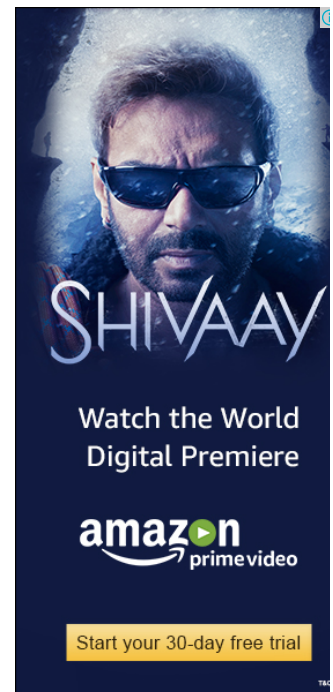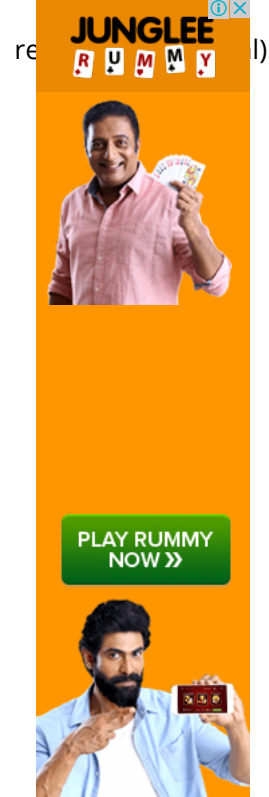- Select -

Alligations Set 02

01. Two containers of equal capacity are full of a 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 ?

(a) 149 : 247   (b) 247 : 149   (c) 143 : 241   (d) 241 : 143

02. Two vessels contain spirit and water mixed respectively in the ratio of 1 : 3 and 3 : 5. Find the ratio in which these are to be mixed to get a new mixture in which the ratio of spirit to water is   1 : 2 ?

(a) 2 : 1   (b) 3 : 1   (c) 1 : 2   (d) 1 : 3

03. The price of a pen and pencil is Rs 35. The pen was sold at a 20% profit and the pencil at a 10% loss. If in the transaction a man gains Rs 4, how much is cost price of the pen ?

(a) Rs 10   (b) Rs 25   (c) Rs 20   (d) None of these

04. A person purchased a cupboard and a cot for Rs 18,000. He sold the cupboard at a profit of 20% and the cot at a profit of 30%. If his total profit was 25.83%, find the cost price of the cupboard ?

(a) Rs 10,500   (b) Rs 12,000   (c) Rs 7500   (d) Rs 10,000

05. A vessel is full of a mixture of kerosene and petrol in which there is 18% kerosene. Eight litre are drawn off and then the vessel is filled with petrol. If the kerosene is now 15%, how much does the vessel hold ?

(a) 40 litres   (b) 32 litres   (c) 36 litres   (d) 48 litres

06. Two solutions of 90% and 97% purity are mixed resulting in 21 litres of mixture of 94% purity. How much is the quantity of the first solution in the resulting mixture ?

(a) 15 litres   (b) 12 litres   (c) 9 litres   (d) 6 litres

07. In what ratio should water be mixed with soda costing Rs 12 per litre so as to make a profit of 25% by selling the diluted liquid at Rs 13.75 per litre ?

(a) 10 : 1   (b) 11 : 1   (c) 1 : 11   (d) 12 : 1

08. A sum of Rs 36.90 is made up of 90 coins that are either 20 paise coins or 50 paise coins. Find out how many 20 paise coins are there in the total amount ?

(a) 47   (b) 43   (c) 27   (d) 63

09. A bonus of Rs 9,85,000 was divided among 300 workers of a factory. Each male workers gets 5000 rupees and each female worker gets 2500 gets. Find the number of male workers in the factory ?

(a) 253   (b) 47   (c) 94   (d) 206

10. In what proportion must water be mixed with milk so as to gain 20% by selling the mixture at the cost price of the milk ? (Assume that water is freely available)

(a) 1 : 4   (b) 1 : 5   (c) 1 : 6   (d) 1 : 12

Answers :

1.	A	2.	C
3.	B	4.	C
5.	D	6.	C
7.	C	8.	C
9.	C	10.	B

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Swathi Rampur (http://www.elitmuszone.com/elitmus/alligations-set-2/#comment-4065)   May 2, 2016 at 12:38 AM

please provide the explaination

Reply (http://www.elitmuszone.com/elitmus/alligations-set-2/?replytocom=4065#respond)

sajal (http://www.elitmuszone.com/elitmus/alligations-set-2/#comment-5597)   August 7, 2016 at 7:36 AM

solution of 5th ques
left%=initial%* (1-replace
amount/total)
15=18(1-8/Q)