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## Alligations Set 01

01. A mixture of 125 gallons of wine and water contains 20% water. How much water must be added to the mixture in order to increase the percentage of water to 25% of the new mixture ?  
(a) 10 gals (b) 8.5 gals (c) 8 gals (d) 8.33 gals
02. 400 students took a mock exam in Delhi, 60% of the boys and 80% of the girls cleared the cut off in the examination. If the total percentage of students qualifying is 65%, how many girls appeared in the examination?  
(a) 100 (b) 120 (c) 150 (d) 300
03. What will be the ratio of petrol and kerosene in the final solution formed by mixing petrol and kerosene that are present in three vessels of equal capacity in ratios 4 : 1, 5 : 2 and 6 : 1 respectively ?  
(a) 166 : 22 (b) 83 : 22 (c) 83 : 44 (d) None of these
04. A dishonest grocer professes to sell pure butter at cost price, but he mixes it with adulterated fat and thereby gains 25%. Find the percentage of adulterated fat in the mixture assuming that adulterated fat is freely available ?  
(a) 20% (b) 25% (c) 33.33% (d) 40%
05. In a Singapore zoo, there are deers and there are ducks. If the heads are counted, there are 180, while the legs are 448. What will be the number of deers in the zoo  
(a) 136 (b) 68 (c) 44 (d) 22
06. Two vessels contain a mixture of spirit and water. In the first vessel and ratio of spirit to water is 8 : 3 and in the second vessel the ratio is 5 : 1. A 35 litre cask is filled from these vessels so as to contain a mixture of spirit and water in the ratio of 4 : 1. How many litre are taken from the first vessel ?  
(a) 11 litres (b) 22 litres (c) 16.5 litres (d) 17.5 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 20 percent gain is made by selling the mixture of two types of ghee at Rs 480 per kg. If the type costing 610 per kg was mixed with 126 kg of the other, how many kilograms of the former was mixed ?  
(a) 138 kg (b) 34.5 kg (c) 69 kg (d) Cannot be det..



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09. A bartender stole champagne from a bottle that contained 50% of spirit and he replaced what he had stolen with champagne having 20% spirit. The bottle then contained only 25% spirit. How much of the bottle did he steal ?


- (a) 80% (b) 83.33% (c) 85.71% (d) 88.88%

10. A mixture of 20 litres of brandy and water contains 10% water. How much water should be added to it to increase the percentage of water to 25%?

- (a) 2 litres (b) 3 litres (c) 2.5 litres (d) 4 litres

Answers :

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

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