

Questions based on mixture

37. A mixture of glycerin and water contains 45% of glycerin. 35 gm of water by weight is added to 100gm of such a mixture. What percentage of glycerin by weight will be there in the new mixture?

(a) 33% (b) $33\frac{1}{3}\%$ (c) $40\frac{20}{27}\%$ (d) 45%

(M.T.S,27.02.2011)

38. The ratio of the quantities of an acid and water in a mixture is 1 : 3. If 5 liters of acid is further added to the mixture, the new ratio becomes 1 : 2. the quantity of new mixture in litres is

(a) 32 (b) 40 (c) 42 (d) 45

(SSC,Tier-1 19.06.2011)

39. The ratio of syrup and water in a mixture is 3 : 1, then the percentage of syrup in this mixture is ;

(a) $66\frac{2}{3}\%$ (b) $33\frac{1}{3}\%$ (c) 75% (d) 25%

(SSC,15.11.2015)

40. 300 grams of sugar solution has 40% of sugar in it. How much sugar should be added to make it 50% in the solution ?

(a) 40 gms (b) 80 gms (c) 60 gms. (d) 10 gms.

(SSC,25.10.2915)

41. In 2 kg mixture of copper and aluminium, 30% is copper. How much aluminium powder should be added to the mixture so that the proportion of copper becomes 20% ?

(a) 900 gms. (b) 1000 gms. (c) 800 gms. (d) 1200 gms.

(SSC,1.11.2015)



Questions based on numbers

52. The sum of two numbers is 520. If the bigger number is decreased by 4% and the smaller number is increased by 12%, then the numbers obtained are equal. The smaller number is :
(a) 280 (b) 210 (c) 240 (d) 300
(SSC, 10+2, 27.10.2013)
53. Two numbers are respectively 25% and 40% less than a third number. What percent of the first is the second?
(a) 60 (b) 70 (c) 40 (d) 80
(SSC, 10+2, 27.10.2013)
54. A number increased by $22\frac{1}{2}\%$ gives 98. The number is
(a) 45 (b) 18 (c) 80 (d) 81
(SSC, C.G.L., 29.9.2013)
55. If 120 is 20% of a number, then 120% of that number will be :
(a) 360 (b) 720 (c) 20 (d) 120
(SSC,)
56. The number that is to be added to 10% of 320 to have the sum as 30% of 230 is
:
(a) 37 (b) 32 (c) 23 (d) 73
(SSC, 21.9.2014)
57. The percentage of numbers from 1 to 100 whose squares end in the digit 4 is :
(a) 4 (b) 20 (c) 16 (d) 25
(M.T.S., 23.2.2014)
58. Two numbers x and y are respectively 20% and 50% more than a third number x is how much percent of y?
(a) 30% (b) 45% (c) 60% (d) 80%
(SSC, DEO, 2.08.2009)
59. The numbers of boys and girls in a college are in the ratio of 3:2. If 20% of the boys and 25% of the girls are adults, the percentage of students, who are not adults, is
(a) 58% (b) $66\frac{2}{3}\%$ (c) 78% (d) $83\frac{1}{3}\%$
(SSC, (DEO) 2.08.2009)
60. In a factory 60% of the workers are above 30 years and of these 75% are males and the rest are females. If there are 1350 male workers above 30 years, the total number of workers in the factory is
(a) 3000 (b) 2000 (c) 1800 (d) 1500
(SSC TIER 1 10.09.2011)