

1. In an election between two candidates, the winning candidate got 70% of the valid votes and won by a majority of 9000 votes. If out of the total votes polled, 90% votes are valid, then what is the total number of votes polled? (Wipro)

- A) 30000 B) 25000 C) 22500 D) none of these

Hint: - $40v=9000, v=2250 \rightarrow 2250*100/90$

Answer B

2. A bag contains 600 coins of 25 p denomination and 1200 coins of 50 p denomination. If 12% of 25 p coins and 24% of 50 p coins are removed, the percentage of money removed from the bag is nearly. (Cognizant)

- A) 21.6 % B) 15.3 % C) 14.6 % D) none of these

Hint: - Total money = Rs. $[600*(25/100)+1200*(50/100)]$ = Rs. 750. 25 paise coins removed = Rs. $(600*12/100)$ = 72. 50 paise coins removed = Rs. $(1200*24/100)$ = 288. Money removed = Rs. $(72*25/100+288*50/100)$ = Rs. 162.

Required percentage = $(162/750*100)\%$ = 21.6 %.

Answer A

3. The population of a town was 1,60,000 three years ago. If it increased by 3%, 2.5%, and 5% respectively in the last three years, then the present population in Infosys)

- A) 155679 B) 167890 C) 177366 D) none of these

Hint: - $1,60,000*(103/100)*(41/40)*(21/20)$

Answer C

4. Ram earns an interest of 600 over two years on a simple interest basis. On a compound interest basis, at the same interest rate, he would earn Rs. 630. What is the rate of interest? (Wipro)

- A) 5% B) 20% C) 10% D) none of these

Hint: - Basic formula of SI and CI.

Answer C

5. A milkman purchases the milk at Rs. x per litre and sells it at Rs. 2x per litre, still he mixes 2 litres of water with every 6 litres of pure milk. What is the profit percentage? (Infosys)

- A) 116% B) 166.66% C) 60% D) none of these

Hint: - Milk = 6, Water = 2 Total = 8L

If $C_p = Rs\ 1$ $S_p = Rs\ 2 \rightarrow$ Then for 8L of mixture, $CP = 6$, $SP = (16 - 6)*100/6 = 1666.66\%$

Answer B

6. A shopkeeper sells an article at a loss of 8%, but when he increases the selling price of the article by Rs. 164, he earns a profit of 2.25% on the cost price. If he sells the same article at Rs. 1760, what is his profit percentage? (Infosys)

- A) 2.5% B) 5% C) 10% D) none of these

Hint: - $102.25\ cp - 92\ cp = 164 \times 100$

$10.25\ cp = 16400, cp = 1600$

Answer C

7. Tensile strength of a material A is a multiple of the amount of materials a, b, c, and d used. If the amount of material of a, b, c, d is changed by +30%, -30%, -25%, +25% respectively, what will be the overall change in tensile strength of A? (TCS)

- A) No Change B) +14.68% C) -14.68% D) none of these

Hint: - Successive Discount approach

Answer C

8. A moneylender takes advantage of the difficult situation of poor people and charges 50% interest. However, he never gets caught because he gives 20% of his total capital (initial capital + profit) as a bribe. If at the beginning of the 4th year, he has a capital of Rs 25,000 to invest, how much bribe did he give at the end of the second year? (TCS)

- A) Rs 4,900 B) Rs 5,200 C) Rs 5,000 D) None of these

Hint: - 1st year $\rightarrow 100 + 50$ (interest) $\rightarrow 150 - 20\%$ bribe $\rightarrow 120$

2nd year $\rightarrow 120 + 60$ (interest) $\rightarrow 180 - 20\%$ bribe $\rightarrow 144$

3rd year $\rightarrow 144 + 72$ (interest) $\rightarrow 216 - 20\%$ bribe $\rightarrow 172.8$ (This is the capital he will have at the beginning of the 4th year)

So, if 172.8 \rightarrow 25,000

Answer B

9. In an examination, 35% of students failed in quants and 42% of students failed in verbal, while 14% failed in both topics. If 222 students passed in both topics, how many students appeared to write the examination? (Infosys)

- A) 500 B) 600 C) 700 D) none of these

Hint: - Use the Set theory/Venn diagram approach to solve quickly.

Answer B

10. The ratio of a two-digit natural number to a number formed by reversing its digits is $\frac{4}{7}$. Which of the following is the sum of all the numbers of all such pairs? (Infosys)

- A) 99 B) 198 C) 330 D) none of these

Hint: - $(10a+b)/(10b+a) = \frac{4}{7}$

$a/b = \frac{1}{2}$

$a = 1, b = 2$ Like $12 + 21 = 33$

Answer C

11. 64 boys and 40 girls form a group for social work. During their membership drive, the same number of boys and girls joined the group. How many members does the group have now, if the ratio of boys to girls is $\frac{4}{3}$? (Cognizant)

- A) 168 B) 201 C) 147 D) none of these

Hint: - Let us say x boys and x girls joined the group.

$(64 + x)/(40 + x) = \frac{4}{3}$

Answer A

12. The sum of three numbers is 98. If the ratio of the first to the second is $\frac{2}{3}$ and that of the second to the third is $\frac{5}{8}$, then the second number is: (Tech Mahindra)

- A) 10 B) 20 C) 30 D) none of these

Hint: - Use the scaling concept

Answer C

13. How many kilograms 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? (Accenture)

- A) 36 Kg B) 42 Kg C) 63 Kg D) none of these

Hint: - Use the rule of allegation

Answer C

14. A mixture of 150 liters of wine and water contains 20% water. How much more water should be added so that water becomes 25% of the new mixture? (Cognizant)

- A) 10 liters B) 20 liters C) 30 liters D) none of these

Hint: - Number of liters of water in 125 liters of the mixture = 20% of $150 = \frac{1}{5}$ of $150 = 30$ liters

Answer A

15. An air conditioner can cool the hall in 40 minutes, while another takes 45 minutes to cool under similar conditions. If both air conditioners are switched on at the same time, then how long will it take to cool the room approximately? (Tech Mahindra)

- A) 18 minutes B) 19 minutes C) 22 minutes D) none of these

Hint: - Use the LCM method to solve the questions

Answer C