

1. When a number is increased by 32, it becomes 116% of itself. What is the number? (Infosys)

- A) 384
- B) 480
- C) 200
- D) 288

Answer – C

Hint— $X + 32 = 116 \times X / 100$

2. A is x% more than B and is x% of sum of A and B. What is the value of x? (Wipro)

- A) 50%
- B) 62%
- C) 75%
- C) 37%

Answer – B

Hint--  $a = b(1 + x) \Rightarrow a/b = 1 + x$

3. If a merchant offers a discount of 30% on the list price, then he makes a loss of 16%. What % profit or % loss will he make if he sells at a discount of 20% of the list price? (Infosys)

- A) 14 percent profit
- B) 4 percent loss
- C) 26 percent profit
- D) 8 percent profit

Answer – B

Hint—Successive discount concept

4. A dishonest shopkeeper professes to sell his groceries at his cost price but uses a false weight of 900 grams for each kilogram. Find his gain percentage. (Wipro)

- A)  $91/9\%$
- B)  $100/9\%$
- C)  $100/11\%$
- D)  $95/9\%$

Answer – B

Hint--Shopkeeper sells at CP using weight of 900 gm instead of 1 kg So,  $1000\text{gm} - 900\text{ gm} = 100\text{gm}$   
 $100/900 \times 100 \Rightarrow 100/9\%$

5. The ratio of the number of marbles that Joyee and Minati had was 5 : 8 while the ratio of the number of marbles that Jacob and Minati had was 7 : 12. What is the ratio of the number of marbles that Joyee and Jacob had? (TCS)

- A) 5 : 7
- B) 7 : 5
- C) 15 : 14
- D) 2 : 3

Answer – C

Hint – Scaling

6. The volume of a right circular cone, whose radius of the base is half of its altitude, and the volume of a hemisphere are equal. The ratio of the radius of the cone to the radius of the hemisphere is. (TCS)

- A)  $\sqrt{2} : 1$
- B) 1 : 1
- C) 2 : 1
- D) 1 :  $\sqrt{2}$

Answer – B

Hint – Volume of cone  $\frac{1}{3} \pi r^2 h$       Volume of Hemisphere  $\frac{2}{3} \pi r^3$

7. A vessel is filled with liquid, 3 parts of which are water and 5 parts syrup. How much of the mixture must be drawn off and replaced with water so that the mixture may be half water and half syrup? (Infosys)

- A)  $\frac{1}{3}$
- B)  $\frac{1}{4}$
- C)  $\frac{1}{5}$
- D)  $\frac{1}{7}$

Answer – C

Hint – Let x litres of this liquid be replaced with water. Quantity of water in new mixture =

$(3 - 3x/8 + x)$

litres 8 Quantity of syrup in new mixture  $= (5 - 5x/8)$

8. What is the rate of interest p.c.p.a.? (Wipro)

I. An amount doubles itself in 5 years on simple interest.

II. Difference between the compound interest and the simple interest earned on a certain amount in 2 years is Rs. 400.

III. Simple interest earned per annum is Rs. 2000

- A) I only
- B) II and III only
- C) All I, II and III
- D) I only or II and III only

Answer – D

Hint –  $PRT/100$

9. A sum of money lent at compound interest for 2 years at 20% per annum would fetch Rs.482 more, if the interest was payable half yearly than if it was payable annually. The sum is

- A) 10000
- B) 20000
- C) 40000
- D) 50000

Answer – B

Hint – C.I. when compounded half yearly =  $[x(1+10/100)^4 - x]$

10. The difference between Simple Interest and Compound Interest at the rate of 12% on the same amount for 3 years is Rs. 112.32. What is the principal amount if interest is compounded annually? (Capegemini)

- A) Rs. 25000
- B) Rs. 2500
- C) Rs. 50000
- D) Rs. 5000

Answer – B

Hint – Using formula for Difference between CI and SI for 3 years

11. A and B can do a piece of work in 30 days, while B and C can do the same work in 24 days and C and A in 20 days. They all work together for 10 days when B and C leave. How many days more will A take to finish the work? (TCS)

- A) 18 days
- B) 24 days
- C) 30 days
- D) 36 days

Answer – B

Hint – Using LCM Method to solve this question

12. A Contractor employed a certain number of workers to finish constructing a road in a certain scheduled time. Sometime later, when a part of work had been completed, he realised that the work would get delayed by three-fourth of the scheduled time, so he at once doubled the no of workers and thus he managed to finish the road on the scheduled time. How much work he had been completed, before increasing the number of workers? (Capegemini)

- A) 10 %
- B)  $14 \frac{2}{7}$  %
- C) 20 %
- D) Can't be determined

Answer – B

Hint – MDT/W (comparing the work)

13. The average weight of 25 candles is 40 grams. If some candles of weight 50 grams each were removed, then average weight becomes 37.5 grams. How many candles of weight 50 grams each were removed? (Tech Mahindra)

- A) 3
- B) 5
- C) 8
- D) 12

Answer – B

Hint – Average = Sum of all items/total no. of items

14. A tap can fill a tank in 6 hours. After half the tank is filled, three more similar taps are opened. What is the total time taken to fill the tank completely? (Capegemini)

- A) 3 hrs 15 min
- B) 3 hrs 45 min
- C) 4 hrs 15 min
- D) 4 hrs 1

Answer – B

Hint – Time taken by one tap to fill half of the tank = 3 hrs. Part filled by the four taps in 1 hour =  $4 \times \frac{1}{6} = \frac{2}{3}$ , Remaining part =  $\frac{1}{2}$

15. SOME + TIME = SPENT find the value of E+N-T. (Infosys)

- A) 2
- B) 18
- C) 19
- D) None of these

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Answer – A

Hint – use hit and trail method and crypt concept