



Q1. In an assembly election, a candidate got 60% of the total valid votes. 2% of the total votes were declared invalid. If the total number of voters is 1,50,000, then find the number of valid votes polled in favour of that candidate. [Percentage, Level 2, Infosys] 1) 90.000 2) 78,000 3) 86,400 4) 88,200 Ans: 4 Solution Total votes = 150000 Invalid votes = 2% of the total votes The winner got = 60% of the valid votes Total valid votes = 98% of 150000 = 147200 Votes polled in favour of the candidate = 60% of 147200 = 88200 Q2: The weight of an iron bucket increases by 33.33% when filled with water to 50% of its capacity. Which of these may be 50% of the weight of the bucket when it is filled with water (assume the weight of bucket and its capacity in kg to be integers)? [Percentage, TCS, Level 3] a. 7 Kg b. 6 Kg c. 5 Kg d. 8 Kg Ans: c Soln: Here weight bucket=x and water when filled 50% its weight=y so x + y = 1.33 xso x=3ynow in second case u need to find x + 2y Now if u take 50% weight = 5 then full weight 10 bucket weight=6 so as per 33.33 % condition water weight 2(50% water weight) (because x=3y) so finally bucket weight =6 + water weight 4 =10 50% weight = 5 kg Q3. A can do a piece of work in 10 days, while A and B together can complete it in 5/2 days. How long will B alone take to complete the work? [Time and Work, Level 2, Capegemini] 1) 3/10 days 2) 10/3 days 3) 3 days

4) 4 days Ans: 2





Q4. Anuj's efficiency is 150 percent of Vinod's efficiency. If Anuj can complete a work in 20 days, then how many days will they together take to complete the same work? [Time and Work, Level 2, Infosys]

- 1) 6 days
- 2) 9 days
- 3) 15 days
- 4) 12 days

Ans: 4

Let Vinod's efficiency be x

Let the total time taken by them to complete the work = t days

Anuj's efficiency = (3/2)x

Number of days taken by Anuj to complete the work = 20 days

Total work = Efficiency × Time

Now, 20(3x/2) = t(3/x + x)

 \Rightarrow t = 12 days

Q5. 4 men and 7 women can do work in 8 days. 7 men and 4 women can do the same work in 5 days. Find the number of days in which 8 women can finish the work. [Time and Work, Level 3, TCS]

- 1) 60 days
- 2) 55 days
- 3) 40 days
- 4) 45 days

Ans: 2

Use: M1D1 = M2D2

Q6. A man earns a profit of 20% by selling a calculator for a certain price. If he sells that calculator at double the price, then what will be the profit percentage? [Profit and Loss, Level 2, Infosys]

- 1) 140%
- 2) 160%
- 3) 60%
- 4) 120%

Ans: 1

Solution

Let the Cost price be 100

A man gains 20% by selling an article.

Then, selling price = 120

New selling price = 240

New Profit = 240 -100 = 140

Profit percentage = 140%

Q7. The marked price of an article is 40% more than its cost price. If a 20% discount is given on the marked price, then what will be the profit percentage? [Profit and Loss, Level 2, TCS]

- 1) 15%
- 2) 12%



Sol.



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3) 10%
4) 8%
Ans: 2
Solution
Let the Cost price be 100
Marked price = 140\% of CP = 140
Then, selling price = 80% of 140 = 112
Profit = 112 -100 = 12
Profit percentage = 12%
Q8. A sum becomes 1.96 times itself in 2 years when invested at compound interest (compounding
annually). What is the annual rate of interest?
                                                        [SI and CI, Wipro, Level 2]
1) 20 percent
2) 25 percent
3) 40 percent
4) 30 percent
Ans: 3
1.96P = P(1+r/100)^2
Q9. What is the compound interest for 1 year on a sum of Rs. 18000 at the annual rate of 20% per
annum compounding half-yearly?
                                                        [SI and CI, Wipro, Level 2]
1) Rs. 3780
2) Rs. 2450
3) Rs. 4500
4) Rs. 3650
Ans: 1
Amount = 18000(1 + 10/100)^2
CI = Amount - 18000
Q10. What is the value of x if 10/3 : x :: 5/2 : 5/4?
                                                        [Ratio and Proportion, Level 1, Capegemini]
1) 2
2) 8
3) 5/3
4) 10/3
Ans: 3
10/3x = 20/10
So, x = 5/3
Q11. If 6 men can lay 8 bricks in one day, then how many men are required to lay 60 bricks in the
                                        [Ratio and Proportion, Level 2, Capegemini, Wipro]
same time?
(1) 45 men
(2) 40 men
(3) 60 men
(4) 50 men
Ans: 2
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Since the time is same so to do more work we need more persons. Hence this is the problem of direct proportion,

i.e.
$$\frac{M_1}{B_1} = \frac{M_2}{B_2} \implies M_2 = \frac{6 \times 60}{8} = 45 \text{ men}$$

Q12. What will be the average of the first 8 positive even numbers divisible by 9?

- 1) 45
- 2) 72
- 3)81
- 4) 63 [Average, Level 2, Infosys]

Ans:3

The sum of the numbers = $9 \times 2(1 + 2 + 3 + 4 + 5 + 6 + 7 + 8) = 648$ Average = 648/1 = 81

Q13. x, y, and z are 3 values, such that x + y = 12, y + z = 17 and z + x = 19. What is the average of x, y, and z? [Average, Level 3, TCS]

- 1) 10
- 2)8
- 3) 6
- 4) 4
- Ans: 2

Key Concepts

By using the formula: Average of x, y, and z = (x+y+z)/3

Q14. There are two mixtures of alcohol and water, the quantity of alcohol in them being 20% and 80% of the mixture. If 2 litres of the first are mixed with three litres of the second, what will be the ratio of alcohol to water in the new mixture? [Mixture and Alligation, Level 2, Wipro]

- 1) 11:12
- 2) 11:9
- 3) 14:11
- 4) 19:11

Ans: 3

The percentage of alcohol in the new mixture would be:

(2*20+3*80)/5

- =280/5
- =56%

The ratio of alcohol to water in the new mixture would be 56:44=14:11

Q15. Find the value of W. (Infosys)

WAIT + ALL = GIFTS

- A) 7
- B) 8
- C) 9
- D) None of these





Answer – C	
Hint – use hit and trail method and crypt concept	ot