

COMPOUND INTEREST

1. Find the compound interest on Rs.8500 for 2 year at 8% per annum.
2. Find the compound interest when principal = Rs.50,000, rate =10% p.a. and time =3 years. Find the amount payable at the end of 3 years.
3. Find the compound interest for $2\frac{1}{2}$ years on Rs.10,000 lent at 5% p.a. reckoned annually.
4. Find the compound interest for 1 year 3 months on Rs.6000 lent at 8% p.a., reckoned annually.
5. Calculate the amount and the compound interest on Rs.20,000 for 3 years when the rates of interest for successive years are 6%,8% and 10% respectively.
6. Find the amount and the compound interest on Rs.24000 for $1\frac{1}{2}$ year at 10% per annum, the interest being compounded half- yearly.
7. Find the amount and interest of Rs.5000 in 2 years at 10% per annum compound interest
8. Find the amount of Rs.256 in one year at $12\frac{1}{2}\%$ per annum, when the interest is compounded half-yearly.
9. Sunil loaned Rs.8192 to Ravi to enable him to purchase a T.V. set. If Sunil charged interest at the rate of 12.5% per annum, compounded half- yearly, calculate the amount that Sunil will pay to Ravi after $1\frac{1}{2}$ year.
10. Find what sum will amount to Rs.73810 in two years at 10% per annum compound interest.
11. What sum will become Rs.4913 in $1\frac{1}{2}$ years if the rate of interest is $12\frac{1}{2}\%$ compounded half-yearly?
12. The difference between the simple and compound interest for a certain sum of money for 3years at 5% per annum is Rs.122.00. Find the sum.
13. Savita invested Rs.1000 in a finance company and received Rs.1331 after 3 years, find the rate of interest percent per annum compounded annually.
14. Preeti purchased six years National Savings Certificate for Rs.1000. After six years she got Rs.2015. Find the rate of interest, if the interest is compounded half-yearly [Given that $(2.015)^{1/12} = 1.06012$].
15. The difference between the compound interest and the simple interest on Rs.42000 for two years is Rs.105 at the same rate of interest per annum. Find:
 - i. The rate of interest,
 - ii. The compound interest earned in the second year.
16. The compound interest on Rs.30000 at 7% per annum for a certain time is Rs.4347. Find the time.

17. A property decreases in value every year at the rate of $6\frac{1}{2}$ per cent of its value at the beginning of that year. If its value at the end of 3 years be Rs.21093.75, what was its worth at the beginning of these three years?
18. The value of a car is Rs.100000 at present. If the value depreciates 10% in the first year, 8 % in the 2nd year and 5% in the 3rd year, what will be its depreciated value after 3 years?
19. If the population of town decreases 6.25% annually and the present population is 2,04,80,000 find its population after 3 years?
20. Neha started a business with an initial investment of Rs.5,00,000. In the first year, she incurred a loss of 4 % . However, during the second years, she earned a profit of 5% which in the third year rose to 10%. Calculate the net profit for the entire period of three years.
21. The present price of a scooter is Rs.7,290. If its value decreases every year by 10%, then what was its value 3 years ago?
22. Ashish purchases a boat for Rs.16000. If the cost of the boat after two years depreciates to Rs.14440, find the rate of depreciation