

EDUFEST Junior ACADEMY, PUNE

Maths Class:8th

Topic: Percentage and Loss

1. Fill in the blanks:

- (i) The compound interest on ₹5000 at 12% p.a for 2 years, compounded annually is _____.
- (ii) The compound interest on ₹8000 at 10% p.a for 1 year, compounded half yearly is _____.
- (iii) The annual rate of growth in population of a town is 10%. If its present population is 26620, then the population 3 years ago was _____.
- (iv) If the compound interest is calculated quarterly, the amount is found using the formula _____.
- (v) The difference between the C.I and S.I for 2 years for a principal of ₹5000 at the rate of interest 8% p.a is _____.

2. Say True or False.

- The present value of a machine is ₹16800. It depreciates at 25% p.a. Its worth after 2 years is ₹9450.
 - The time taken for ₹1000 to become ₹1331 at 20% p.a, compounded annually is 3 years.
 - The compound interest on ₹16000 for 9 months at 20% p.a, compounded quarterly is ₹2522.
3. Find the compound interest on ₹3200 at 2.5 % p.a for 2 years, compounded annually.
4. Find the compound interest for $2\frac{1}{2}$ years on ₹4000 at 10 % p.a, if the interest is compounded yearly.
5. A principal becomes ₹2028 in 2 years at 4 % p.a compound interest. Find the principal.
6. In how many years will ₹3375 become ₹4096 at $13\frac{1}{3}$ % p.a if the interest is compounded half-yearly?
7. Find the C.I on ₹15000 for 3 years if the rates of interest are 15 %, 20 % and 25 % for the I, II and III years respectively.
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8. Find the difference between C.I and S.I on ₹5000 for 1 year at 2 % p.a, if the interest is compounded half yearly.
9. Find the rate of interest if the difference between C.I and S.I on ₹8000 compounded annually for 2 years is ₹20.
10. Find the principal if the difference between C.I and S.I on it at 15% p.a for 3 years is ₹1134.

Objective Type Questions

11. The number of conversion periods in a year, if the interest on a principal is compounded every two months is _____.
- (A) 2 (B) 4 (C) 6 (D) 12
12. The time taken for ₹4400 to become ₹4851 at 10% , compounded half yearly is _____.
- (A) 6 months (B) 1 year (C) 1 years (D) 2 years
13. The cost of a machine is ₹18000 and it depreciates at $16\frac{2}{3}\%$ annually. Its value after 2 years will be _____.
- (A) ₹12000 (B) ₹12500 (C) ₹15000 (D) ₹1650
14. The sum which amounts to ₹2662 at 10% p.a in 3 years, compounded yearly is _____.
- (A) ₹2000 (B) ₹1800 (C) ₹1500 (D) ₹2500
15. The difference between compound and simple interest on a certain sum of money for 2 years at 2% p.a is ₹1. The sum of money is _____.
- (A) ₹2000 (B) ₹1500 (C) ₹3000 (D) ₹2500