EduSahara™ Worksheet

Name : Chapter Based Worksheet

Chapter : Compound Interest

Grade : ICSE Grade X



1. If the compound interest on a certain principal is ₹1537.50 for 2 year(s) at ROI 5.00% p.a. computed annually, then the simple interest for the same principal, terms and ROI =

(i) ₹1501.00 (ii) ₹1502.00 (iii) ₹1499.00 (iv) ₹1500.00 (v) ₹1498.00

2. If the simple interest on a certain principal is ₹1800.00 for 2 year(s) at ROI 5.00% p.a. computed annually, then the compound interest for the same principal, terms and ROI =

(i) ₹1843.00 (ii) ₹1845.00 (iii) ₹1847.00 (iv) ₹1844.00 (v) ₹1846.00

3. If principal is ₹12000.00 and compound interest amount is ₹18726.11 for 5 year(s) computed quarterly, then interest is

(i) ₹6728.11 (ii) ₹6725.11 (iii) ₹6724.11 (iv) ₹6727.11 (v) ₹6726.11

4. The present value of a machine is ₹16000.00. Suppose it depreciates at the rate of 17.00% per annum, what was the value of the machine 2 year(s) ago?

(i) ₹23226.43 (ii) ₹23227.43 (iii) ₹23225.43 (iv) ₹23223.43 (v) ₹23224.43

5. If principal is ₹9000.00, ROI is 8.00% p.a., no of year(s) is 5 and interest type is compound interest computed quarterly, then amount is

(i) ₹13372.53 (ii) ₹13374.53 (iii) ₹13375.53 (iv) ₹13371.53 (v) ₹13373.53

6. If principal is ₹14000.00, ROI is 8.00% p.a. and accumulated compound interest computed annually is ₹3635.97, then amount is

(i) ₹17634.97 (ii) ₹17636.97 (iii) ₹17637.97 (iv) ₹17635.97 (v) ₹17633.97

7. If the difference of compound and simple interest on a certain principal is ₹1183.08 for ROI 10.00% p.a. and no of year(s) 4 computed quarterly, then the principal =

(i) ₹14000.00 (ii) ₹14001.00 (iii) ₹14002.00 (iv) ₹13999.00 (v) ₹13998.00

8. The population of a city is 20000. If the rate of decrease in population is 2.00% per annum, what is the popoulation after 2 year(s)?

(i) 19228 (ii) 19208 (iii) 19198 (iv) 19188 (v) 19218

9. If principal is ₹15000.00 and compound interest amount is ₹24157.65 for 5 year(s) computed annually, then interest is

(i) ₹9158.65 (ii) ₹9156.65 (iii) ₹9159.65 (iv) ₹9155.65 (v) ₹9157.65

10. If the compound interest on a certain principal is ₹5329.56 for 4 year(s) at ROI 10.00% p.a. computed quarterly, then what is the compound interest for the same principal and ROI for 3 year(s)?

(i) ₹3792.78 (ii) ₹3793.78 (iii) ₹3794.78 (iv) ₹3791.78 (v) ₹3795.78

11. If the compound interest amount for a certain principal is ₹9317.00 for 3 year(s) at an ROI of 10.00% p.a. computed annually, then interest is

(i) ₹2317.00 (ii) ₹2315.00 (iii) ₹2319.00 (iv) ₹2316.00 (v) ₹2318.00

12. If principal is ₹15000.00 and compound interest amount is ₹19023.63 for 3 year(s) computed quarterly, then ROI per annum is

(i) 7.00% (ii) 6.00% (iii) 9.00% (iv) 8.00% (v) 10.00%

13. Calculate the amount on ₹5000.00 for $5\frac{1}{3}$ years

at 9.00% p.a. compounded annually

(i) ₹7924.91 (ii) ₹7921.91 (iii) ₹7923.91 (iv) ₹7922.91 (v) ₹7925.91

14. The present value of a machine is ₹7000.00. Suppose it depreciates at the rate of 7.00% per annum, what was the value of the machine 4 year(s) ago?

(i) ₹9359.64 (ii) ₹9358.64 (iii) ₹9357.64 (iv) ₹9355.64 (v) ₹9356.64

15. If principal is ₹19000.00, ROI is 8.00% p.a. and accumulated compound interest computed half yearly is ₹3227.31, then amount is

(i) ₹22227.31 (ii) ₹22228.31 (iii) ₹22229.31 (iv) ₹22225.31 (v) ₹22226.31

16. Calculate the amount on ₹10000.00 for 3 years 4 months
at 10.00% p.a. compounded half yearly

(i) ₹13848.65 (ii) ₹13845.65 (iii) ₹13846.65 (iv) ₹13849.65 (v) ₹13847.65

17. If principal is ₹17000.00, no of year(s) is 3 and accumulated compound interest computed annually is ₹1040.54, then ROI per annum is

(i) 0.00% (ii) 4.00% (iii) 2.00% (iv) 1.00% (v) 3.00%

18. If the simple interest on a certain principal is ₹3800.00 for 2 year(s) at ROI 10.00% p.a. computed half yearly, then the compound interest for the same principal, terms and ROI =

(i) ₹4092.62 (ii) ₹4096.62 (iii) ₹4095.62 (iv) ₹4093.62 (v) ₹4094.62

19. The population of a city is 40000. If the rate of increase in population is 5.00% per annum, what is the population after 5 year(s)?

(i) 51041 (ii) 51051 (iii) 51061 (iv) 51071 (v) 51031

20. The population of a city is 60000. If the rate of decrease in population is 5.00% per annum, what is the popoulation after 3 year(s)?

(i) 51443 (ii) 51433 (iii) 51463 (iv) 51423 (v) 51453

21. If the compound interest amount for a certain principal is ₹17509.12 for 5 year(s) at an ROI of 6.00% p.a. computed quarterly, then principal is

(i) ₹13001.00 (ii) ₹12999.00 (iii) ₹12998.00 (iv) ₹13000.00 (v) ₹13002.00

22. If the compound interest on a certain principal is ₹627.73 for 5 year(s) at ROI 2.00% p.a. computed half yearly, then what is the compound interest for the same principal and ROI for 6 year(s)?

(i) ₹760.95 (ii) ₹759.95 (iii) ₹761.95 (iv) ₹758.95 (v) ₹762.95

23. If the compound interest on a certain principal is ₹2716.73 for 3 year(s) at ROI 6.00% p.a. computed half yearly, then the simple interest for the same principal, terms and ROI =

(i) ₹2519.00 (ii) ₹2522.00 (iii) ₹2518.00 (iv) ₹2521.00 (v) ₹2520.00

24. If principal is ₹19000.00, no of year(s) is 4 and accumulated compound interest computed annually is ₹8817.90, then amount is

(i) ₹27818.90 (ii) ₹27817.90 (iii) ₹27815.90 (iv) ₹27819.90 (v) ₹27816.90

25. If ROI is 5.00% p.a., no of year(s) is 3 and accumulated compound interest is ₹3215.09 computed quarterly, then amount is

(i) ₹23214.09 (ii) ₹23215.09 (iii) ₹23217.09 (iv) ₹23213.09 (v) ₹23216.09

## Assignment Key

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|---|---|---|---|---|---|
| 1) (iv) | 2) (ii) | 3) (v) | 4) (iii) | 5) (v) | 6) (iv) |
| 7) (i) | 8) (ii) | 9) (v) | 10) (ii) | 11) (i) | 12) (iv) |
| 13) (iii) | 14) (iii) | 15) (i) | 16) (v) | 17) (iii) | 18) (v) |
| 19) (ii) | 20) (i) | 21) (iv) | 22) (i) | 23) (v) | 24) (ii) |
| 25) (ii) | | | | | |