EduSahara™ Worksheet

Name : Chapter Based Worksheet

Chapter : Compound Interest

Grade : ICSE Grade X

1. A man invests a ₹10000.00 for 3 years at 5.00% p.a. compounded annually. If 10% of the accrued interest at the end of each year is deducted as income tax, find the amount he receives at the end of 3 years.

   (i) ₹11413.66 (ii) ₹11409.66 (iii) ₹11412.66 (iv) ₹11410.66 (v) ₹11411.66

2. If principal is ₹20000.00, ROI is 6.00% p.a. and accumulated compound interest computed quarterly is ₹6937.10, then amount is

   (i) ₹26936.10 (ii) ₹26937.10 (iii) ₹26935.10 (iv) ₹26938.10 (v) ₹26939.10

3. If principal is ₹6000.00 and compound interest amount is ₹8815.97 for 5 year(s) computed annually, then ROI per annum is

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

4. The present value of a machine is ₹18000.00. Suppose it depreciates at the rate of 18.00% per annum, what was the value of the machine 4 year(s) ago?

   (i) ₹39813.29 (ii) ₹39812.29 (iii) ₹39811.29 (iv) ₹39814.29 (v) ₹39810.29

5. Calculate the amount on ₹17000.00 for $2\frac{1}{4}$ years

   at 9.00% p.a. compounded annually

   (i) ₹20653.15 (ii) ₹20652.15 (iii) ₹20650.15 (iv) ₹20654.15 (v) ₹20651.15

6. If the compound interest on a certain principal is ₹686.80 for 2 year(s) at ROI 2.00% p.a. computed annually, then what is the compound interest for the same principal and ROI for 4 year(s)?

   (i) ₹1403.35 (ii) ₹1400.35 (iii) ₹1401.35 (iv) ₹1402.35 (v) ₹1399.35

7. Calculate the amount due on ₹14000.00 in 4 years when the rates of interest during successive years are 3.00% p.a., 8.00% p.a., 7.00% p.a., 6.00% p.a. respectively.

   (i) ₹17663.58 (ii) ₹17664.58 (iii) ₹17661.58 (iv) ₹17665.58 (v) ₹17662.58

8. The present value of a machine is ₹14000.00. Suppose it depreciates at the rate of 18.00% per annum, what is the value of the machine after 2 year(s)?

   (i) ₹9412.60 (ii) ₹9411.60 (iii) ₹9414.60 (iv) ₹9413.60 (v) ₹9415.60

9. If the compound interest on a certain principal is ₹4276.21 for 4 year(s) at ROI 9.00% p.a. computed quarterly, then the simple interest for the same principal, terms and ROI =

   (i) ₹3598.00 (ii) ₹3600.00 (iii) ₹3601.00 (iv) ₹3602.00 (v) ₹3599.00

10. If principal is ₹18000.00 and compound interest amount is ₹24243.39 for 5 year(s) computed quarterly, then interest is

    (i) ₹6241.39 (ii) ₹6242.39 (iii) ₹6245.39 (iv) ₹6243.39 (v) ₹6244.39

11. If principal is ₹18000.00, ROI is 9.00% p.a., no of year(s) is 4 computed annually, then the difference of compound and simple interest =

    (i) ₹928.47 (ii) ₹927.47 (iii) ₹926.47 (iv) ₹930.47 (v) ₹929.47

12. If the compound interest amount for a certain principal is ₹15730.00 for 2 year(s) at an ROI of 10.00% p.a. computed annually, then principal is

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

13. If principal is ₹17000.00, ROI is 8.00% p.a., no of year(s) is 2 and interest type is compound interest computed quarterly, then interest is

(i) ₹2920.21 (ii) ₹2918.21 (iii) ₹2919.21 (iv) ₹2917.21 (v) ₹2916.21

14. If principal is ₹17000.00, ROI is 3.00% p.a., no of year(s) is 4 and interest type is compound interest computed annually, then amount is

(i) ₹19132.65 (ii) ₹19131.65 (iii) ₹19134.65 (iv) ₹19133.65 (v) ₹19135.65

15. If principal is ₹8000.00, ROI is 5.00% p.a. and accumulated compound interest computed half yearly is ₹1747.22, then amount is

(i) ₹9748.22 (ii) ₹9746.22 (iii) ₹9747.22 (iv) ₹9749.22 (v) ₹9745.22

16. The population of a city is 60000. If the rate of increase in population is 7.00% per annum, what is the population after 5 year(s)?

(i) 84173 (ii) 84133 (iii) 84143 (iv) 84153 (v) 84163

17. If principal is ₹6000.00, ROI is 6.00% p.a., no of year(s) is 5 and interest type is compound interest computed quarterly, then amount is

(i) ₹8082.13 (ii) ₹8081.13 (iii) ₹8083.13 (iv) ₹8080.13 (v) ₹8079.13

18. If the difference of compound and simple interest on a certain principal is ₹154.58 for ROI 6.00% p.a. and no of year(s) 3 computed half yearly, then the principal =

(i) ₹10999.00 (ii) ₹11002.00 (iii) ₹10998.00 (iv) ₹11001.00 (v) ₹11000.00

19. If the compound interest amount for a certain principal is ₹19729.19 for 5 year(s) at an ROI of 3.00% p.a. computed half yearly, then interest is

(i) ₹2731.19 (ii) ₹2730.19 (iii) ₹2727.19 (iv) ₹2729.19 (v) ₹2728.19

20. If principal is ₹5000.00, ROI is 6.00% p.a. and accumulated compound interest computed half yearly is ₹627.54, then no of years is

(i) 2 (ii) 4 (iii) 1 (iv) 5 (v) 3

21. If principal is ₹6000.00, ROI is 7.00% p.a., no of year(s) is 3 and interest type is compound interest computed annually, then interest is

(i) ₹1348.26 (ii) ₹1352.26 (iii) ₹1350.26 (iv) ₹1349.26 (v) ₹1351.26

22. The population of a city is 30000. If the rate of increase in population is 3.00% per annum, what is the population after 4 year(s)?

(i) 33765 (ii) 33775 (iii) 33785 (iv) 33755 (v) 33745

23. If the compound interest on a certain principal is ₹8211.98 for 5 year(s) at ROI 7.00% p.a. computed half yearly, then what is the compound interest for the same principal and duration at 5.00% p.a. ROI?

(i) ₹5602.69 (ii) ₹5600.69 (iii) ₹5599.69 (iv) ₹5603.69 (v) ₹5601.69

24. If principal is ₹10000.00, ROI is 5.00% p.a. and accumulated compound interest computed annually is ₹2762.82, then no of years is

(i) 5 (ii) 3 (iii) 4 (iv) 6 (v) 7

25. If the compound interest on a certain principal is ₹4484.07 for 5 year(s) at ROI 9.00% p.a. computed quarterly, then what is the compound interest for the same principal and duration at 5.00% p.a. ROI?

(i) ₹2254.30 (ii) ₹2258.30 (iii) ₹2257.30 (iv) ₹2255.30 (v) ₹2256.30

Assignment Key

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