SIMPLE & COMPOUND WORKSHEET

PROBLEMS ON SIMPLE INTEREST:

S No	Principal	Rate of Interest per annum	Number of years	Simple Interest
1	**500**	**20**	**1**	**100**
2	**15,000**	**10**	**3**	**?**
3	**600**	**?**	**2**	**120**
4	**3,500**	**20**	**?**	**1400**
5	**?**	**15**	**4**	**1800**

1. In how many years will a sum double itself at 12.5% p.a. simple interest?

a. 4 **b.** 8 **c.** 10 **d.** 16

2. A sum of Rs. 12,500 becomes Rs. 15,500 in 4 years under simple interest. What is the rate of interest?

a. 3% **b.** 4% **c.** 5% **d.** 6%

3. A sum doubles itself in 10 years under SI. The rate of interest per annum is

a. 15% **b.** 20% **c.** 30% **d.** 10%

4. A sum of Rs. 2000 is deposited in a bank at the rate of 10% p.a. for a period of three years. Find the simple interest (in Rs).

a. 200 **b.** 400 **c.** 800 **d.** 600

5. A sum of Rs. 5000 amounts to Rs. 6600 at the rate of 8% under simple interest in a certain period. Find the number of years.

a. 3 **b.** 4 **c.** 5 **d.** 6

6. A sum of Rs. 10000 is lent partly at 8% and remaining at 10% per annum. If the average yearly rate of interest is 9.2%, then find the sum lent at 8%.

a. Rs. 4000 **b.** Rs. 6000 **c.** Rs. 5000 **d.** Rs. 8000

7. What amount would a man receive on a principal of Rs. 4,000 at the end of two years at the rate of 5 percent per annum?

a. Rs. 4400 **b.** Rs. 5000 **c.** Rs. 4800 **d.** Rs. 4500

8. If a sum of money doubles itself in 5 years under simple interest, in how many years does it become 8 times the original sum?

a. 20 **b.** 25 **c.** 35 **d.** 40

10. A certain amount earns a simple interest of Rs. 1,750 in 7 years. Had the interest been 2% more, how much more interest would it have earned?

a. Rs. 35 **b.** Rs. 350 **c.** Rs. 200 **d.** Can't say

11. Vishwa borrowed a total amount of Rs. 30,000, part of it at the rate of 12% p.a. and remaining at 1% per annum under SI. If at the end of 2 years he paid a total amount of Rs. 36,480 to settle the loan amount, what was the amount borrowed at 12% per annum?

a. 10000 **b.** 12000 **c.** 14000 **d.** 16000

12. The simple interest accrued on a certain amount of money in four years at the rate of 8% per annum is Rs. 1,200. What would be the simple interest on thrice that amount at the rate of 6% per annum in 3 years?

a. Rs. 2025 **b.** Rs. 3025 **c.** Rs. 2256 **d.** Rs. 2150

13. A sum of Rs. 3200 becomes Rs. 3456 in two years. What is the rate of interest per annum?

a. 3% **b.** 4% **c.** 4.5% **d.** 6%

14. Srinivasan invests two equal amounts of money in two banks giving 10% and 12% rate of interest. At the end of the year the interest earned is Rs. 1650/. Find the sum invested in each bank.

a. Rs. 8500 **b.** Rs. 15000 **c.** Rs. 7500 **d.** Rs. 16500

15. Rs. 16,000 was invested for three years, partly in Scheme A at the rate of 5% interest per annum and partly in Scheme B at the rate of 8% per annum. Total interest received at the end of three years was Rs. 3480. How much money was invested in Scheme A?

a. Rs. 6500 **b.** Rs. 6000 **c.** Rs. 4500 **d.** Rs. 4000

PROBLEMS ON COMPOUND INTEREST:

S No	Principal	Rate of Interest per annum	Number of years	Compound Interest
1	**500**	**20**	**1**	**100**
2	**10,000**	**5**	**2**	**?**
3	**15,000**	**50**	**3**	**?**
4	**600**	**?**	**2**	**126**
5	**50,000**	**30**	**?**	**34,500**

16. A sum of Rs. 2000 is deposited at the rate of 10% p.a. compounded annually for 3 years. Find the interest in Rs.

a. 550 **b.** 662 **c.** 578 **d.** 484

17. A sum of Rs. 2000 is lent at the rate of 10% p.a compounded annually for 3 years. Find the total amount received at the end of 3 years.

a. Rs. 2550 **b.** Rs. 2662 **c.** Rs. 2578 **d.** Rs. 2484

18. Find the number of years required for a sum of Rs. 4000 to become Rs. 5324 at the rate of 10% per annum compounded annually.

a. 3 **b.** 4 **c.** 5 **d.** 6

19. A certain amount of money earns Rs. 540 as simple interest in 3 years. If it earns a compound interest of Rs. 376.20 at the same rate of interest in 2 years, find the rate of interest per annum.

a. 4.5% **b.** 9% **c.** 18% **d.** 25%

20. A principal of Rs. 10,000 was deposited in a bank for two years, the rate of interest being 10% per annum during the first year and 12 % per annum during the second year (in rupees). What is the total amount earned at the end of two years?

a. Rs. 13220 **b.** Rs. 13450 **c.** Rs. 5000 **d.** Rs. 12320

21. A sum borrowed under compound interest doubles itself in 10 years. In how many years will it become fourfold at the same rate of interest?

a. 15 years **b.** 17.5 years **c.** 20 years **d.** 25 years

22. A sum of money doubles itself under compound interest in 15 years. In how many years it will become 8 times?

a. 35 years **b.** 40 years **c.** 45 years **d.** 60 years

23. Ravi got a loan of Rs. 8000 from a bank to purchase a bike. The rate of interest was 10% p.a. compounded half yearly. The amount that he has to pay back after 1.5 years is

a. Rs. 9200 **b.** Rs. 9261 **c.** Rs. 9999 **d.** Rs. 9990

24. At what rate of interest (compounded yearly) will Rs. 80,000 amount to Rs. 88200 in 2 years?

a. 5% **b.** 6% **c.** 7% **d.** 8%

25. At what rate of compound interest p.a. will a sum of Rs. 1200 become Rs. 1348.32 in 2 years?

a. 9% **b.** 8% **c.** 7% **d.** 6%

26. The simple and compound interests on a certain sum for two years are Rs. 160 and Rs. 170 respectively. Find the rate of interest.

a. 12% **b.** 8.33% **c.** 12.5% **d.** 15%

27. What will Rs. 2000 amount to in two years if it is invested at 20% p.a. compound interest, the interest being compounded semi-annually?

a. Rs. 2880 **b.** Rs. 3160 **c.** Rs. 2928.2 **d.** Rs. 3148.4

28. What will be the difference between the simple interest and the compound interest generated on an amount of Rs.75,000, at the rate of 12% p.a. (compounded annually)at the end of two years?

a. Rs. 720 **b.** Rs. 840 **c.** Rs. 960 **d.** Rs. 1080

29. On a certain sum of money, the simple interest and the compound interest for two years when compounded annually were Rs.3,600 and Rs.3,870 respectively. What was the rate of interest per annum?

a. 12% **b.** 15% **c.** 18% **d.** 21%

30. A sum of Rs. 6,500 is invested under compound interest for three years, the rates of interest being 10% p.a., 15% p.a., and 20% p.a. for the first, the second and the third year respectively. Find the interest received at the end of three years.

a. Rs. 3367 **b.** Rs. 3537 **c.** Rs. 3817 **d.** Rs. 4127