Worksheet

1. Neha borrowed ₹1,600 at 8% p.a. simple interest and pays ₹ 640 as interest. For how long was the loan taken?

2. At what rate per cent per annum will the simple interest on ₹ 450 be ₹ 81 in 4 years?

3. A sum of money lent at simple interest amounts to ₹ 1,540 in 2 years and ₹ 1,760 in 3 years. Find the sum.

4. ₹ 6,887 is divided between Nidhi and Neha such that Nidhi's share at the end of 5 years is equal to the Neha's share at the end of 6 years at the rate of 10% p.a. at simple interest. Find Neha's share.

5. Aakash lent a certain amount of money at simple interest. The amount tripled in 20 years. What was the rate of interest?

6. Krishna took a loan of ₹4,800 at the rate of 4% p.a. compounded annually for 3 years. What amount will he pay at the end of 3 years to clear off his debt to the nearest rupee?

7. The simple interest on a certain sum of money at 5% per annum for 3 years is ₹ 75. What is the compound interest on the same sum for the same period at the same rate of interest?

8. What sum of money put at 3% simple interest for 2 years will fetch ₹ 84 as interest?

9. If the simple interest on ₹ 3,500 is greater than the simple interest on ₹ 1,750 at 6% by ₹ 210, then find the time.

10. If the simple interest on a certain sum of money is $\dfrac{4}{25}$ th of the sum and the rate per cent equals the number of years, then what is the rate of interest per annum?

11. Ramesh invested ₹ 85,000 in a bank at 10% interest compounded annually. After how many years will his money be worth more than one lakh rupees?

12. Amrit purchased a new car for ₹8,00,000. Each year, the value of his car depreciated by 10%. What will be the value of the car after 3 years?

13. If ₹ 7,500 amounts to ₹ 9,300 in 3 years, what does ₹ 12,000 amount to in 5 years at the same rate of simple interest per annum?

14. Choose the correct option.
    a. The interest earned on ₹ 2,000 at 7% per annum compounded yearly for two years is
        i. ₹ 280   ii. ₹ 289.80   iii. ₹ 140   iv. ₹ 340
    b. At what rate of simple interest will a sum of ₹1,500 becomes ₹1,770 in 3 years?
        i. 6%   ii. 3%   iii. 4%   iv. 1.5%
    c. A sum of money yields ₹ 1,331 in 2 years at 5% per annum simple interest. The sum is
        i. ₹ 1,210   ii. ₹ 1,200   iii. ₹ 120   iv. ₹ 132.20

d. The compound interest earned on ₹ 16,000 at 5% per annum compounded yearly for 2 years is

    i. 17,640   ii. 1,640   iii. 1,600   iv. 17,600

e. The simple interest earned on ₹ 4,000 for 2 years at the rate of 6.5% per annum is

    i. ₹ 520   ii. ₹ 5,200   iii. ₹ 4,520   iv. ₹ 536.90

f. If S.I on ₹ 5,000 for 2 years at a given rate is ₹ 1,000, then compound interest for the same time and at the same rate of interest will be:

    i. ₹ 950   ii. ₹ 1,050   iii. ₹ 1,100   iv. ₹ 1,250

15. Complete the table.

Principal (P)	Rate (R)	Time (T)	Simple Interest	Amount
₹ 2,000		$3\frac{1}{2}$ years		₹ 2,420
	$6\frac{2}{3}$ % p.a.	1 year 3 months	₹ 550	
₹ 4,000	1.5% per month			₹ 4,800

Answers to Worksheet

1. 5 years   2. 4.5%   3. ₹ 1,100   4. ₹ 3332.42 (approx)

5. 10%   6. ₹ 5,400   7. ₹ 78.81   8. ₹ 1,400   9. 2 years

10. 4%   11. 2 years   12. ₹ 5,83,200   13. ₹ 16,800

14. a. ii   b. i   c. i   d. ii   e. i   f. ii

15.

Principal (P)	Rate (R)	Time (T)	Simple Interest	Amount
₹ 2,000	6% p.a.	$3\frac{1}{2}$ years	₹ 420	₹ 2,420
₹ 6,600	$6\frac{2}{3}$ % p.a.	1 year 3 months	₹ 550	₹ 7,150
₹ 4,000	1.5% per month	$1\frac{1}{9}$ years	₹ 800	₹ 4,800