Simple interest and Compound interest problems and Answers

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1. A certain sum of money at simple interest amount to Rs. 1040 in 3 years and to Rs. 1360 in 7 years. Then that sum is
   **Ans:** Rs. 800
2. Out of a sum of Rs. 625, a part was lent at 5% and the other at 10% simple interest. If the interest on the first part after two years is equal to the interest on the second part after four years, then the second sum is equal to
   **Ans:** Rs. 125
3. x, y and z are three sums of money such that y is the simple interest on x and z is the simple interest on y for the same time and same rate of interest. Then, we have
   **Ans:** $y^2 = xz$
4. A sum of Rs. 2668 amounts to Rs. 4669 in 5 yr at the rate of simple interest. Find the rate percent
   **Ans:** 15%
5. What will be simple interest for 1 yr and 4 months on a sum of Rs. 25800 at the rate of 14% per annum?
   **Ans:** Rs. 4816
6. At what rate of annual simple interest, a certain sum will amount to four times in 15 yr?
   **Ans:** 20%
7. A sum becomes its double in 10 yr. Find the annual rate of simple interest
   **Ans:** 10%
8. At simple interest, a sum becomes 3 times in 20 yr. Find the time in which the sum will be double at the same rate of interest?
   **Ans:** 10 yr

9. A certain sum becomes 3 fold at 4% annual rate of interest. At what rate, it will become 6 fold?
   **Ans:** 10%

10. At a simple interest a sum amounts to Rs. 1012 in 2.5 yr and becomes Rs. 1067.20 in 4 yr. What is the rate of interest?
    **Ans:** 4%

11. Find the difference in amount and principal for Rs. 4000 at the rate of 5% annual interest in 4 yr
    **Ans:** Rs. 800

12. Rakesh lent out Rs. 8750 at 7% annual interest. Find the simple interest in 3 yr
    **Ans:** Rs. 1837.50

13. Priya deposits an amount of Rs. 65800 to obtain a simple interest at the rate of 14% per annum for 4 yr. What total amount will Priya get at the end of 4 yr?
    **Ans:** Rs. 102648

14. A sum was lent out for a certain time. The sum amounts to Rs. 400 at 10% annual interest rate. When the sum was lent out at 4% annual interest rate, it amounts to Rs. 200. Find the sum
    **Ans:** Rs.

15. A sum was invested for 4 yr at a certain rate of simple interest, if it had been invested at 2% more annual rate of interest, when Rs. 56 more would have been obtained. What is the sum?
    **Ans:** Rs. 700

16. Part of my sum is lent out at 3%, part is lent our at 6% and remaining part is lent out at 12%. All the three parts are lent out at simple interest. If the annual income is Rs. 25, what is the sum?
Ans: Rs. 500
17. A sum of Rs. 1521 is lent our in two parts in such a way that the interest on one part at 10% for 5 yr is equal to that of another part at 8% for 10 yr. What will be the two parts of sum?
Ans: Rs. 936 and Rs. 585
18. Harsha makes a fixed deposit of Rs. 20000 in Bank of India for a period of 3 yr. If the rate of interest be 13% sl per annum charged half-yearly, what amount will he get after 42 months?
Ans: Rs. 29100
19. The difference of simple interest from two banks for Rs. 1000 in 2 yr is Rs. 20. Find the difference in rates of interest
Ans: 1%
20. Suresh borrowed Rs. 800 at 6% and Naresh borrowed Rs. 600 at 10%. After how much time, will they both have equal debts?
Ans: 16yr
21. Raju lent Rs. 400 to Ajay for 2 yr and Rs. 100 to Manoj for 4 yr and received from both Rs 60 as collective interest. Find the rate of interest, simple interest being calculated
Ans: 5%
22. Ramesh invested an amount that is 10% of Rs. 10000 at simple interest. After 3 yr, the amount becomes Rs. 2500. Find out the 4 times of actual interest rate
Ans: 200%
23. Mr. Pawan invests an amount of Rs. 24200 at the rate of 4% per annum for 6 yr to obtain a simple interest, later he invests the principle amount as well as the amount obtained as simple interest for another 4 yr at the same rate of interest. What amount of simple interest will be obtained at the end of the last 4 yr?
Ans: Rs.4801.28
24. Anil borrowed certain money at the rate of 6% per annum
for the first 2 yr, at the rate of 9% per annum for the next 3 yr and at the rate of 14% per annum for 4 yr. If he pays a total interest of Rs. 22800 at the end of 9 yr, how much money did he borrow?

**Ans:** Rs. 24000

25. A sum of Rs. 500 amounts to Rs. 650 in 3 yr at simple interest. If the interest rate is increased by 3%, it would amount to how much?

**Ans:** Rs. 695

26. Neeta borrowed some money at the rate of 6% per annum for the first 3 yr, at the rate of 9% per annum for the next 5 year and at the rate of 13% per annum for the period beyond 8 yr. If she pays a total interest of Rs. 8160 at the end of 11 yr, how much money did she borrow?

**Ans:** Rs. 8000

27. Reena had Rs. 10000 with her out of this money she lent some money to Akshay for 2 yr at 15% simple interest. She lent remaining money to Brijesh for an equal number of years at the rate of 18%. After 2 yr, Reena found that Akshay had given her Rs. 360 more as interest as compared to Brijesh. The amount of money which Reena had lent to Brijesh must be

**Ans:** Rs. 4000

28. A sum of Rs. 800 amounts to Rs. 956 in 3 yr at simple interest. If the interest rate is increased by 3%, it would amount to how much?

**Ans:** Rs. 1028

29. What will be the ratio of simple interest earned by certain amount at the same rate of interest for 12 yr and for 18 yr?

**Ans:** 2:3

30. A sum of Rs. 1550 was lent partly at 5% and partly at 8% per annum simple interest. The total interest received after 4 yr was Rs. 400. The ratio of the money lent at 5% to that lent

**Ans:** 16:15
31. The annual payment of Rs. 160 in 5 yr at 5% per annum simple interest will discharge a debt of
   Ans: Rs. 880
32. Ramesh lent out 40% of a certain sum at the annual rate of 15%, he lent 50% of the remaining at the annual rate of 10% and the rest amount was lent out at 18%, per annum. Find the annual rate on whole sum
   Ans: 14.4%
33. A private finance company A claims to be lending money at simple interest. Buy the company includes the interest every 6 months for calculating principal. If company A is charging an interest of 10%, the effective rate of interest after 1 yr becomes
   Ans: 10.25%
34. Rajnish invested certain sum in three different schemes P, Q and R with the rates of interest 10% per annum, 12% per annum and 15% per annum, respectively. If the total interest accrued in 1 yr was Rs. 3200 and the amount invested in scheme R was 150% of the amount invested in scheme P and 240% of the amount invested in scheme Q. What was the amount invested in scheme Q?
   Ans: Rs. 5000
35. The simple interest on a sum of money at 9% per annum for 5 yr is half the sum, is
   Ans: Data inadequate
36. Aanchal borrowed Rs. 500 at 3% per annum SI and Rs. 600 at 4.5% per annum SI on the agreement that the whole sum will be returned only when the total interest becomes Rs. 252. The number of years after which the borrowed sum is to be returned, is
   Ans: 6 yr
37. The simple interest on a sum of money at 8% per annum for 6 yr is half the sum. What is the sum?
   Ans: Data is inadequate
38. The rates of simple interest in two banks x and y are in the ratio of 10:8. Ranji wants to deposit his total savings in two banks in such a way that she receives equal half-yearly interest from both. She should deposit the savings in banks x and y in the ratio of 
**Ans:** 4:5

39. A sum becomes 6 fold at 5% per annum. At what rate, the sum becomes 12 fold?
**Ans:** 11%

40. A sum of money becomes 9 times in 20 yr. Find the 10 times of rate of interest
**Ans:** 400%

41. The simple interest on a sum of money will be Rs. 200 after 5 yr. In the next 5 yr, principle is tripled. What will be the total interest at the end of the 10th yr?
**Ans:** Rs. 800

42. What must will amount to Rs. 720 in 2 years 6 months as 5% per annum simple interest?
**Ans:** Rs. 640

43. A certain sum given on simple interest became double in 20 yrs. In how many years will it be four times?
**Ans:** 60 yrs

44. Find out the capital required to earn a monthly interest of Rs. 600 per month as 6% simple interest
**Ans:** Rs. 1,20,000

45. A man derives his income from an investment of Rs. 2,000 at a certain rate of interest and Rs. 1,600 at 2% higher. The whole interest in 3 yrs is Rs. 960. Find the rate of interest
**Ans:** 8%

46. A sum of Rs. 1,550 was lent partly at 5% and partly at 8% simple interest. The total interest received after 3 yrs was Rs. 300. The ratio of money lent at 5% to 8% is
**Ans:** 16:15
47. Rs. 793 is divided into three parts as such that their amount after 2, 3, and 4 yrs may be equal the rate of interest being 5%. Find ratio between these parts

**Ans:**

48. A trader marks two prices on his goods one for the cash payment and the other at the credit of 1 month. What will be the ratio between the two prices if the rate of simple interest is 4% per annum?

**Ans:** 300:301

49. A man buys a house and pays Rs. 8,000 cash and Rs. 9,600 at 5 years credit at 4% per annum simple interest. Find the cash price of the house

**Ans:** Rs. 16,000

50. Find the simple interest on Rs. 600 from 3rd March to 15th May of a year at 6% p.a.

**Ans:** Rs. 7.20

51. A sum of Rs. 2,600 is lent in two parts so that the interest on the first part for a period of 3 years at 5% may be equal to the interest on the second part for 6 years at 4%. The second part is equal to

**Ans:** Rs. 1,000

52. A sum doubles in 20 years at simple interest. How much is the rate?

**Ans:** 5% p.a.

53. A sum of Rs. 5984 becomes Rs. 8976 in 6 years at SI. What is the rate?

**Ans:** 8 p.a.

54. The simple interest on a certain principal @ 4% p.a for 5 years is Rs. 800. How much is the principal amount?

**Ans:** Rs. 4000

55. A certain sum of money becomes Rs. 1250 in a span of 5 years at simple interest and further to Rs. 1700 in the span of 8 years. At the same rate, what would it amount to at the end of
12 years?
**Ans:** Rs. 2300

56. The simple interest earned on a certain sum of money for 10 years at the rate of 5% p.a. was half the sum. How much is the sum?
**Ans:** Rs. 3000

57. Rs. 800 becomes Rs. 956 in 3 years at certain simple rate of interest. If the rate of interest is increased by 4%, what amount will Rs. 800 become in 3 years?
**Ans:** Rs. 1052

58. Srinivasan invests two equal amounts in two banks giving 10% and 12% rate of interest respectively. At the end of year the interest earned is Rs. 1650. Find the sum invested in each
**Ans:** Rs. 7,500

59. The simple interest on a sum of money will be Rs. 600 after 10 years. If the principal is trebled after 5 years, what will be total interest at the end of the tenth year?
**Ans:** Rs. 1200

60. A person invests Rs. 5000 at 5% p.a. simple interests for a certain period and earns Rs. 750. If he earns Rs. 720 on Rs. 6000 in the same time period what is the rate of interest?
**Ans:** 4%

61. The rate of interest at which an amount of Rs. 1800 on compound interest becomes Rs. 1984.50 in 2 year is
**Ans:** 5%

62. Which is the principal amount which earns Rs. 132 as compound interest for the second year at 10% per annum?
**Ans:** Rs. 1200

63. The amount of Rs. 7500 at compound interest at 4% per annum for 2 years, is
**Ans:** Rs. 8112

64. The difference in compound interest and simple interest on a certain amount at 10% per annum at the end of the third year
is Rs. 620. What is the principal amount?
Ans: Rs. 20,000
65. To find out the total compound interest accrued on a sum of money after 5 years, which of the following information given in the statements P and Q will be sufficient?
P: The sum was Rs. 20,000
Q: The total amount of simple interest on the sum
Ans: Both P and Q are needed
66. The difference between compound interest and the simple interest earned on a sum of money at the end of 4 years is Rs. 256.40. To find out the sum, which of the following information given in the statements P and Q is/are necessary?
P: Amount of simple interest accrued after 4 years
Q: Rate of interest per annum
Ans: Only Q is necessary
67. To find out the total compound interest accrued on a sum of money after 5 years, which of the following information given in the statements A and B is/are sufficient?
A: The rate of interest was 6% per annum
B: The total simple interest on the same amount after 5 years at the same rate will be Rs. 600
Ans: Both A and B are not needed
68. A sum of money invested at compound interest amounts to Rs. 800 in 3 years and Rs. 840 in 4 years. What is the rate of interest for per annum?
Ans: 5%
69. A man borrowed Rs. 800 at 10% per annum simple interest and immediately lent the whole sum at 10% per annum compound interest. What does he gain at the end of 2 years?
Ans: Rs. 8
70. The compound interest on a certain sum at 5% per annum for 2 years is Rs. 328. The simple interest for that sum at the same ratio and for the same period will be
71. A sum of money at compound interest amounts to Rs. 578.40 in 2 years and to Rs. 614.55 in 3 years. The rate of interest per annum is

Ans: 6

72. A certain amount of money is invested at the simple interest of 15% per annum. If it had been invested at compound interest, an extra interest of Rs. 450 would have been obtained in the second year. What must be the amount invested?

Ans: Rs. 20000

73. What is the difference between the CI and SI on a sum of Rs. 1600 at 5% p.a. for period of 2 years?

Ans: Rs. 4

74. What is the difference between the compound interest and the simple interest on a capital of Rs. 16,000 at the rate of 15% per annum for a period of 2 years?

Ans: Rs. 360

75. At what rate of interest per annum would the difference between the compound interest and the simple interest at the end of two years on the capital of Rs. 60000 be Rs. 1944?

Ans: 18%

76. The difference between compound interest and simple interest on an amount for a period of 1 years is 62 rupees. Rate of interest is 20% per annum in both cases and in case of compound interest the interest is being compounded half yearly. What is the amount?

Ans: 2000

77. The income of a company increases 20% per annum. If its income is Rs. 26,64,000 in the year 1999, what was its income in the year 1997?

Ans: Rs. 18,50,000

78. The difference between the simple interest on a certain
sum at the rate of 10% per annum for 2 years an compound interest which is compounded every 6 months is Rs. 124.05. What is the principal sum?

**Ans:** Rs. 8,000

79. The difference between the compound interest and simple interest on a certain sum at 5% for 2 years is Rs. 1.50. The sum is

**Ans:** Rs. 600

80. The different between the compound interest and simple interest on a certain sum of money for 2 years at 10% per annum is Rs. 15. Find the sum of money

**Ans:** Rs. 1500

81. Exchange rate of dollar vs rupee increases at the rate of 5% per annum. If the current rate is Rs. 40 per dollar, what will be the rate at the end of 2 months?

**Ans:** Rs. 44.1

82. Balan borrowed Rs. 1,000 at 10 percent per annum simple interest. He immediately lent the whole sum at 10 percent per annum compound interest. At the end of 2 years, he would gain

**Ans:** Rs. 10

83. The population of a town is 10,000 now and was 8,000 two years ago. If it grows at the same rate what will it be 2 years hence?

**Ans:** 12,500

84. How much will Rs. 25000 amount to in 2 years at compound interest, if the rates for the successive years be 4 and 5 percent per year?

**Ans:** Rs. 27,300

85. What is the difference between compound interest and simple interest for the sum of Rs. 2000 over a 2 year period, if the compound interest is calculated at 20% and simple interest is calculated at 23%?
Ans: Rs. 40
86. Find the compound interest of Rs. 1000 at the rate of 20% per annum for 18 months when interest is compounded half-yearly
Ans: Rs. 331
87. At what percentage per annum, will Rs. 10,000 amount to Rs. 17.280 in three years? (Compound interest being reckoned)
Ans: 20%
88. Vinay deposited Rs. 8000 in ICICI Bank, which pays him 12% interest per annum compounded quarterly. What is the amount that he receives after 15 months?
Ans: Rs. 9274.2
89. Ranjeet makes a deposit of Rs. 50,000 in the Punjab National Bank for a period of 2 years. If the rate of interest is 12% per annum compounded half-yearly, find the maturity value of the money deposited by him
Ans: 66,911.27
90. Vinod makes a deposit of Rs. 1,00,000 in the Syndicate Bank for a period of 2 years. If the rate of interest be 12% per annum compounded half-yearly, what amount he will get after 2 years
Ans: 126,247.69
91. A sum of money is borrowed and paid back in two equal annual instalments of Rs. 882, allowing 5% compound interest. The sum borrowed was
Ans: Rs. 1640
92. If the difference between the simple interest and compound interest on some principal amount at 20% per annum for 3 years is Rs. 48, then the principal amount must be
Ans: Rs. 375
93. A sum of money doubles itself in 5 years. In how many years will it become fourfold (if interest is compounded)?
Ans: 10 years
94. If the compound interest on a certain sum at 10% per annum for 2 years is Rs. 21. What could be the simple interest?
Ans: Rs. 20
95. If the compound interest on a certain sum of money for 2 years at 10% is Rs. 24600, find the simple interest at the same rate for the same time
Ans: Rs. 23428
96. The difference between CI and SI on a sum of money for 3 years at 5% per annum is Rs. 61. Find the sum
Ans: Rs. 8000
97. A sum of money doubles itself at compound interest in 15 years. In how many years it will become eight times?
Ans: 45
98. A sum of Rs. 400 amounts to Rs. 441 in 2 years. What will it amount to if the rate of interest is increased by 5%?
Ans: Rs. 484
99. If the difference between the compound interest, compounded every six months, and the simple interest on a certain sum of money at the rate of 12% per annum for one year is Rs. 36, the sum is
Ans: Rs. 10,000
100. A builder borrows Rs. 2550 to be paid back with compound interest at the rate of 4% per annum by the end of 2 years in two equal yearly instalments. How much will each instalment be?
Ans: Rs. 1352