

## Simple Interest And Compound Interest Mix Questions For Practice

1. A certain sum of money amounts to Rs. 1680 in 3 years and to 1800 in 5 years. Find the sum and the rate of interest.  
(1) Rs. 1500; 4%    (2) Rs. Rs.1200; 4%    (3) Rs. 1600; 5%    (4) Rs. 1800; 5%

Answer - Rs. 1500; 4%

2. A man promises to his wife a birthday present, given her each year a number of rupees equal to the number of years in her age. If her birthday falls on August 8, what sum must be placed at simple interest at 7% on January 1 before she is 63 (non leap year) in order to raise the required sum ?  
(1) Rs. 1600    (2) Rs. 1550    (3) Rs.1500    (4) Rs. 1450

Answer - Rs.1500

3. Ram lent Rs. 1200 to Shyam for 5 years and Rs. 1500 to Mohan for 2 years received altogether Rs. 900 as interest. Find the rate per annum.  
(1) 8.5%    (2) 8%    (3) 9%    (4) 10%

Answer - 10%

4. A person on retirement gets Rs. 3,20,000 from his gratuity and P.F. He wants to invest this amount in Post Office and Bank in such a way that he earns a total interest of Rs. 27,600 every year. If the annual rate of interest in Post Office and Bank be respectively 9% and 8%, What are the amounts invested in Post Office and Bank respectively ?  
(1) Rs. 200000, Rs. 120000    (2) Rs. 180000 and Rs. 140000    (3) Rs. 185000, Rs. 135000    (4) None of these

Answer - Rs. 200000, Rs. 120000

5. Find the interest on Rs. 1460 at 10% from 5th February, 1992 to 25th April, 1992.  
(1) Rs. 32    (2) Rs. 36    (3) Rs. 40    (4) Rs. 34

Answer - Rs. 32

6. Find the annual installment that will discharge a debt of Rs. 12900 due in 4 years at 5% per annum simple interest.  
(1) Rs. 2750    (2) Rs. 2150    (3) Rs. 2500    (4) Rs. 3000

Answer - Rs. 2750

7. A person takes loan of 4,000 on the condition that he would pay it in the monthly instalment of 500. He has to pay interest @ 6% on the outstanding balances, then find out the average rate of interest received by the creditor.

- (1)  $27/8$  % Percent Per annum    (2)  $19/8$  % Percent Per annum    (3)  $37/8$  % Percent Per annum  
(4)  $25/8$  % Percent Per annum

Answer -  $27/8$  % Percent Per annum

8. The principal which gives Rs. 1 interest per day at a rate of 5% simple interest per annum is

- (1) Rs. 5000    (2) Rs. 7300    (3) Rs. 36500    (4) Rs. 3650

Answer - Rs. 7300

9. A certain sum of money amounts to Rs. 2200 at 5% p.a. rate of interest, Rs. 2320 at 8% interest in the same period of time. The period of time is :

- (1) 3 years    (2) 4 years    (3) 5 years    (4) 2 years

Answer - 2 years

10. The rate of simple interest per annum at which a sum of money doubles itself in  $50/3$  years is

- (1) 4%    (2) 5%    (3) 6%    (4)  $20/3$ %

Answer - 6%

11. A and B borrowed Rs. 3000 and Rs. 3200 respectively at the same rate of interest for  $5/2$  years. If B paid Rs. 40 more interest than A, find the rate of interest.

- (1) 5%    (2) 7%    (3) 8%    (4) 6%

Answer - 8%

12. If Rs. 12,000 is divided into two parts such that the simple interest on the first part for 3 years at 12% per annum is equal to the simple interest on the second part for  $9/2$  years at 16% per annum, the greater part is

- (1) Rs. 8,000    (2) Rs. 6,000    (3) Rs. 7,000    (4) Rs. 7,500

Answer - Rs. 8,000

13. A man buys a TV priced at Rs. 16000. He pays Rs. 4000 at once and the rest after 15 months on which he is charged a simple interest at the rate of 12% per year. The total amount he pays for the TV is

- (1) Rs. 18,200    (2) Rs. 17,800    (3) Rs. 16,800    (4) Rs. 17,200

Answer - Rs. 17,800

14. Find the ratio of simple interest to compound interest for 2 years at 4% per annum, compounded yearly in case of compound interest.

- (1) 50 : 53    (2) 50 : 51    (3) 49 : 50    (4) 48 : 53

Answer - 50 : 51

15. The simple interest on a certain sum for 2 years is Rs. 50 and the compound interest is Rs. 55. Find the rate of interest per annum and the sum.

- (1) 16% P.a. ; Rs. 200    (2) 15% P.a. ; Rs. 150    (3) 20% P.a. ; Rs. 125  
(4) 18% P.a. ; Rs. 175

Answer - 20% P.a. ; Rs. 125

16. If the difference between CI and SI on a certain sum at  $r\%$  per annum for 2 years is Rs.  $x$ , find the expression for principal sum. If the difference between CI and SI on a certain sum at 4% per annum for 2 years is Rs. 25, find the sum.

- (1) Rs. 18625    (2) Rs. 16625    (3) Rs. 14625    (4) Rs. 15625

Answer - Rs. 15625

17. The compound interest on a sum of money at 5% per annum for 3 years is Rs. 2522. What would be the simple interest on this sum at the same rate and for the same period ?

- (1) Rs. 2500    (2) Rs. 2400    (3) Rs. 2450    (4) Rs. 2350

Answer - Rs. 2400

18. . A sum of money was lent at 10% per annum, compounded annually, for 2 years. If the interest was compounded half-yearly, he would have received 220.25 more. Find the sum.

- (1) Rs. 40000    (2) Rs. 45000    (3) Rs. 48000    (4) Rs. 50000

Answer - Rs. 40000

19. Two years ago, the value of my motorbike was Rs. 62500. If the value depreciates by 4% every year, now its value is

- (1) Rs. 56700    (2) Rs. 57600    (3) Rs. 57500    (4) Rs. 55700

Answer - Rs. 57600

20. The compound interest on a sum of Rs. 5000 at 8% per annum for 9 months when interest is compound quarterly is :

- (1) Rs. 300    (2) Rs. 300.12    (3) Rs. 306.04    (4) Rs. 308

Answer - Rs. 306.04

21. A principal of Rs. 10,000, after 2 years compounded annually, the rate of interest being 10% per annum during the first year and 12% per annum during the second year (in rupees) will amount to :

- (1) Rs. 12,000    (2) Rs. 12,320    (3) Rs. 12,500    (4) Rs. 11,320

Answer - Rs. 12,320

22. A man invested a sum of money at compound interest. It amounted to Rs. 2420 in 2 years and to Rs. 2662 in 3 years. Find the sum.

- (1) Rs. 1000    (2) Rs. 2000    (3) Rs. 5082    (4) Rs. 3000

Answer - Rs. 2000

23. The compound interest on a certain sum of money at a certain rate for 2 years is 40.80 and the simple interest on the same sum is 40 at the same rate and for the same time. The rate of interest is  
(1) 2% per annum (2) 3% per annum (3) 4% per annum (4) 5% per annum

Answer - 4% per annum

24. The least number of years in which a sum of money on 19% p.a. compound interest will be more than double is  
(1) 3 years (2) 4 years (3) 5 years (4) 2 years

Answer - 4 years

25. There is 40% increase in an amount in 8 years at simple interest. What will be the compound interest (in rupees) of Rs 30000 after 2 years at the same rate ?  
(1) Rs 6150 (2) Rs 7687.5 (3) Rs 4612.5 (4) Rs 3075

Answer - Rs 3075

26. A sum of Rs 6,000 is deposited for 3 years at 5% per annum compound interest (compounded annually). The difference of interests for 3 and 2 years will be  
(1) Rs 75.00 (2) Rs 30.75 (3) Rs 330.75 (4) Rs 375.00

Answer - Rs 330.75

27. On a certain sum of money lent out at 16% p.a. the difference between the compound interest for 1 year, payable half yearly, and the simple interest for 1 year is Rs 56. The sum is  
(1) Rs 1080 (2) Rs 7805 (3) Rs 8750 (4) Rs 5780

Answer - Rs 8750

28. An amount of money at compound interest grows up to 3,840 in 4 years and up to Rs 3,936 in 5 years. Find the rate of interest.  
(1) 2.5% (2) 2% (3) 3.5% (4) 2.05%

Answer - 2.5%

29. B borrows Rs 5,000 from A at 6% p.a. simple interest and lends it to C at compound interest of 10% p.a. If B collects the money back from C after 2 years and repays A, the profit made by B in the transaction is  
(1) Rs 1,050 (2) Rs 500 (3) Rs 450 (4) Rs 600

Answer - Rs 450

30. A sum of money becomes eight times in 3 years, if the rate is compounded annually. In how much time will the same amount at the same compound rate become sixteen times?  
(1) 6 years (2) 4 years (3) 8 years (4) 5 years

Answer - 4 years

31. The simple interest on a certain sum of money for 3 years at 8% per annum is half the compound interest on Rs. 4000 for 2 years at 10% per annum. The sum placed on simple interest is:  
(A) Rs1800 (B) Rs1750 (C) Rs2000 (D) Rs1655

Answer - Rs1750

32. A person borrows Rs. 3000 for 2 years at 5% p.a. simple interest. He immediately lends it to another person at  $6\frac{1}{4}$  %p.a for 2 years. Find his gain in the transaction per year.

- (A) Rs42 (B) Rs39.25 (C) Rs35 (D) Rs37.5

Answer - Rs37.5

33. An automobile financier claims to be lending money at simple interest, but he includes the interest every six months for calculating the principal. If he is charging an interest of 10%, the effective rate of interest becomes:

- (A) 9.5% (B) 8% (C) 10.25% (D) 10%

Answer - 10.25%

34. A sum was put at simple interest at a certain rate for 5 years. Had it been put at 2% higher rate, it would have fetched Rs. 450 more. Find the sum?

- (A) Rs 4500 (B) Rs 3200 (C) Rs 3800 (D) Rs 4200

Answer - Rs 3200

35. The ratio of the amount for two years under compound interest annually and for one year under simple interest is 6:5. When the rate of interest is same, then the value of rate of interest is:

- (A) 20% (B) 15% (C) 18% (D) 22%

Answer - 20%

36. If the simple interest on a certain sum of money is  $\frac{4}{25}$  of the sum and the rate per cent equals the number years, then the rate of interest per annum is:

- (A) 4% (B) 5% (C) 8% (D) 10%

Answer - 4%

37. Arnav fixes the rate of interest 5% per annum for first 3 years and for the next 4 years 6 percent per annum and for the period beyond 7 years, 7 percent per annum. If Mr. Singh lent out Rs.2500 for 11 years, find the total interest earned by him?

- (A) 1650 (B) 1565 (C) 1840 (D) 1675

Answer - 1675

38. A sum of Rs. 10,000 is borrowed at 8% per annum compounded annually. If the amount is to be paid in three equal installments, the annual installment will be

- (A) Rs 3520.25 (B) Rs 3880.335 (C) Rs 4200.15 (D) Rs 4530.225

Answer - Rs 3880.335

39. Out of a sum of Rs 850, a part was lent at 6% SI and the other at 12% SI. If the interest on the first part after 2 years is equal to the interest on the second part after 4 years, then the second sum is

- (A) Rs350 (B) Rs280 (C) Rs170 (D) Rs220



Answer - Rs170

40. Find the compound interest on Rs36,000 at a rate in which Rs216 becomes Rs343 in 3years and the time is 2years?

- (A) Rs12000 (B) Rs12500 (C) Rs13000 (D) Rs13500

Answer - Rs13000

41. If the difference between C.I and S.I is rs256 at 20% rate of interest in 3years. Find the amount on C.I?

- (A) Rs4320 (B) Rs2500 (C) Rs3456 (D) Rs3200

Answer - Rs3456

42. A sum becomes 8000 in 3years and 10000 in 6years at C.I. Find the sum ?

- (A) Rs6400 (B) Rs6500 (C) Rs6000 (D) Rs7000

Answer - Rs6400

43. If the compound interest on a sum at 25% rate of interest is Rs900 then find the S.I of 3years at same rate?

- (A) Rs1000 (B) Rs1100 (C) Rs1300 (D) Rs1200

Answer - Rs1200

44. A certain amount of money is lent out at compound interest at the rate of 20% per annum for two years, compounded annually. It would give Rs. 482 more if the amount is compounded half yearly. Find the principle.

- (A) Rs. 30000 (B) Rs. 10000 (C) Rs. 15000 (D) Rs. 25000

45. Ram invests two sum of money A and B at 10% p.a. and 20% p.a respectively at CI for 2 years. IF the total interest on both the sum is Rs 5350 then find the sum invested in A if the total sum of A and B was Rs 20,000?

- (A) Rs 5,000 (B) Rs 10,000 (C) Rs 12,000 (D) Rs 15,000

Answer - Rs 15,000

46. A sum becomes triple in 6 years at S.I. The same sum will become 19 times in how many years?

- (A) 50 years (B) 48 years (C) 54 years (D) 57 years

Answer - 54 years

47. A man gave 50% of his savings of Rs 67,280 to his wife and divided the remaining sum between his two sons A and B of 14 and 12 years of age respectively.

He divided it in such a way that each of his sons, when they attain the age of 18 years, would receive the same amount at 5% compound interest per annum. The share of B was

- A. 16500 B. 15000 C. 15020 D. 16000

48. The difference between compound interest and simple interest on a sum for two years at 8% per annum, where the interest is compounded annually is Rs.16.



if the interest were compounded half yearly , the difference in two interests would be nearly

- A. 24.64    B. 26.64    C. 28    D. 18

49. The compound interest on a sum of money for 2 years is rs.832 and the simple interest on the same sum for the same period is rs.800 .

The difference between the compound interest and simple interest for 3 years is

- A. 50    B. 66.56    C. 98.56    D. 102

50. The population of a town was 3600 three years back. It is 4800 right now. What will be the population three years down the line, if the rate of growth of population has been constant over the years and has been compounding annually?

- A.6000    B.6400    C.6600    D.7000

51. If a sum amounts to Rs 6000 in 2 years on CI. What will it become after 4 years on C.I, if the principal amount was Rs 4500?

- (A) Rs 7500    (B) Rs 8000    (C) Rs 8500    (D) Rs 9000

Answer - Rs 8000

52. If the ratio of difference between CI and SI for 3 years and 2 years is 31:10, then find the Rate of Interest.

- (A) 11.11%    (B) 10%    (C) 20%    (D) 25%

Answer - 10%

53. If a sum of RS 2744000 becomes Rs 3176523 in three years on Compound Interest then find the rate of interest.

- (A) 10%    (B) 5%    (C) 8%    (D) 20%

Answer - 5%

54. On a certain rate of interest a sum of Rs 5000 becomes Rs 16,200 in certain years at compound interest. In half of the time given, this sum will become?

- (A) Rs 10,000    (B) Rs 5,600    (C) Rs 9,000    (D) Cannot be determined

Answer - Rs 9,000

55. A sum becomes triple in 6 years at S.I. The same sum will become 19 times in how many years?

- (A) 50 years    (B) 48 years    (C) 54 years    (D) 57 years

Answer - 54 years

56. Rs. 5887 is divided between Shyam and Ram, such that Shyam's share at the end of 9 years is equal to Ram's share at the end of 11 years, compounded annually at the rate of 5%.

Find the share of Shyam.

- (A) 3000    (B) 4000    (C) 3087    (D) 5000

57. Simple interest on a certain sum of money for 3 years at 8% per annum is half the compound interest on Rs. 4000 for 2 years at 10% per annum. The sum placed on simple interest is:

- A.1700    B.1600    C.1750    D.1650    E.1800

58. A sum of Rs 6,000 was taken as a loan. This is to be repaid in two equal annual installments. If the rate of interest is 20% compounded annually then find the value of each installment.

- (A) Rs 4400 (B) Rs 2220 (C) Rs 4320 (D) Rs 4420

Answer - Rs 4320

59. If Compound Interest on certain sum for 2 years is 352 at some rate of interest and Simple Interest on same rate for 3 years is 480, then find the sum.

- (A) Rs 800 (B) Rs 1000 (C) Rs 700 (D) Rs 900

Answer - Rs 800

60. Divide Rs 20,816 between A and B so that A's share at the end of 7 years is equal to B's share at the end of 9 years with compound interest being 4% p.a

- (A) 10716, 10100 (B) 10616, 10200 (C) 10816, 10000 (D) 10800, 10016

Answer - 10816, 10000

61. What sum of money at compound interest will amount to Rs 32000 in 3 years at the rate of interest 20% in first years, 16 (2/3)% in second year and 14 (2/7)% in third year.

- (A) Rs 18,000 (B) Rs 20,000 (C) Rs 22,000 (D) Rs 25,000

Answer - Rs 20,000

62. Find the simple interest and compound interest of Rs 15000 at 20% rate of interest after 3 years.

- (A) 9000, 11000 (B) 8000, 11920 (C) 9000, 10920 (D) 6000, 9000

Answer - 9000, 10920

63. On a certain sum of money, after 2 years the simple interest and compound interest obtained are Rs 800 and Rs 960 respectively. What is the sum of money invested?

- (A) Rs 1420 (B) Rs 1325 (C) Rs 1000 (D) Rs 1405

64. Rs 6000 becomes Rs 7200 in 3 years at a certain rate of compound interest. What will be the amount received after 9 years?

- (A) Rs 11,498 (B) Rs 10,352 (C) Rs 9,368 (D) Rs 10,368

65. The compound interest obtained after 1st and 2nd year is Rs 160 and Rs 172.8 respectively on a certain sum of money invested for 2 years. What is the rate of interest?

- (A) 10% (B) 8% (C) 8.5% (D) 9% (E) 9.2%

66. A sum of money is lent at simple interest and compound interest. The ratio between the difference of compound interest and simple interest of 3 years and 2 years is 35 : 11.

What is the rate of interest per annum?

- (A) 20 3/4% (B) 17 2/5% (C) 18 2/11% (D) 22 1/5% (E) 24 5/6%

67. A Man lends Rs. 1540 for five years and Rs. 1800 for four years. If he gets Rs. 1788 as interest on both amounts, what is the rate of interest ?





(A) 10% (B) 12% (C) 15% (D) 8%

Answer - 12%

68. Meena is borrowed a sum of RS. 6000 from Veena at the rate of 14% for 2 years. She then added some more money to the borrowed sum and lent it to Meera at the rate of 18% of simple interest for the same time. If Meena gained Rs. 650 in the whole transaction, then what sum did he lend to Meera?

(A) Rs.6427.12 (B) Rs.8015.41 (C) Rs.6472.22 (D) Rs.7541.2

Answer - Rs.6472.22

69. A part of 70000 is lent out at 10% annum. The rest of the amount is lent out at 5% per annum after one year. The ratio of interest after 3 years from the time when first amount was lent out is 1:2. Find the second part that was lent out at 5%.

A. 40000 B. 50000 C. 60000 D. 48000

Answer - 60000

70. man borrows 3000 rupees at 10% compound interest. At the end every year he pays rupees 1000 back. How much amount should he pay at the end of the fourth Year to clear all his debt?

(A) Rs. 680.5 (B) Rs. 651.3 (C) Rs. 751.3 (D) Rs. 790.3

Answer - Rs. 751.3



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