



MATHS

BOOKS - PEARSON IIT JEE

FOUNDATION

**SIMPLE INTEREST AND COMPOUND
INTEREST**

Example

1. A certain sum lent for a period of $\frac{21}{2}$ years under simple interest at 9% per annum earned an interest of Rs 234. From the following options, find the sum that was lent.

- A. Rs 960
- B. Rs 1040
- C. Rs 1246
- D. Rs 1146

Answer: B



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2. At what rate of interest per annum, under compound interest, will Rs 5120 amount to Rs 7290 in 3 years?



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3. A sum of money triples itself in 3 years at compound interest. In how many years will it become 9 times itself ?



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4. The difference between the compound interest and the simple interest for 2 years at 8% per annum on a certain sum of money is Rs 120. Find the sum.



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5. The population of certain type of bacteria grows at 4%, 5% and 8% during first, second and third years, respectively. Find the

population of the bacteria after 3 years, If the present population is 100,000.



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6. A man borrowed Rs 10,000 at 12% per annum, interest compounded quarterly. Find the amount that he has to pay after 9 months.



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7. Find the compound interest on Rs 50,000 for 3 years, compounded annually, and the rate of interest being 10 % , 12 % and 15 % for the three successive years, respectively.



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8. Two persons P and Q lent certain amounts at the rate of interest for 2 years and 3 years, respectively, under compound interest. If their final amounts are in the ratio of 3:5, Q's

amount at the end of the first year being Rs 8500 and P earned an interest of Rs 510 for the first year, then find the ratio of their principals.

A. 33: 50

B. 27: 47

C. 35: 61

D. 22: 51

Answer:



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9. The difference between simple interest and compound interest on a sum of Rs 20,000 for two years is Rs 112.50. What is the annual rate of interest? Choose the correct answer from the following options:

A. 6 %

B. 7.5 %

C. 8.5 %

D. 8 %

Answer:



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10. Ravi borrowed Rs 15,000 at the rate of 15% per annum for 2 years under simple interest. As he could not repay the loan after two years, the money lender increased the rate of interest to 20% per annum for the further period. If Ravi wants to repay the entire amount at the end of a total period of 3

years and 4 months, then how much he has to pay. (in Rs.)

A. 24500

B. 24000

C. 23500

D. 23000

Answer: C



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Test Your Concepts

1. Bank P provides loan at 10% per annum simple interest, and bank Q provides loan at 20% per annum, simple interest. Vinay borrowed Rs 1000 for 2 years from bank P, Kumar borrowed Rs 1000 for 2 years from bank Q. How much extra interest Kumar have to pay?



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2. The difference between the compound interest for the $(p + 1)$ th year and compound interest for $(p+2)$ th year is equal to the interest for one year on the compound interest for the $(p+1)$ th year. (True or False)



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3. Compound interest for one year on Rs 500 calculated half yearly at 20% per annum is Rs 100. (True/False)





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4. Find the compound interest on Rs 5000 at 10% per annum for 1 year, interest compounded annually?



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5. A certain sum doubles in 3 years under simple interest. In how many years will the sum become 5 times itself?



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6. Simple interest on a sum of Rs 10,000 for 3 years at the rate of 20% per annum is



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7. In what time will a sum become three times itself at 20% per annum, at simple interest?



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8. A certain sum becomes 16 times in 4 years at compound interest, compounded annually. What is the rate of interest?



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9. If compounding is done p times a year, at the rate of 5% per annum for n years, the principal x will amount to.....



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10. A certain sum amounts to Rs 73,255 in 3 years, and Rs 84,525 in 5 years at simple interest. Find the sum.



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11. If certain sum becomes 3 times itself in 4 years at compound interest, in how many years will the sum become 81 times itself at the same rate of interest?



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12. Raju borrowed Rs 15,000 from Mahesh at the rate of 15% per annum under simple interest for 3 years. Raju lent some part of money at 20% per annum at simple interest for 3 years and the remaining part at 12% per annum at simple interest for 3 years. If the interest received payable, then find the sum he lent at 20% simple interest?



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13. Farheen borrowed a sum of Rs 18,000 at the rate of 20% per annum, interest compounded semi-annually. Find the amount and compound interest for a period of $1\left(\frac{1}{2}\right)$ years.



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14. Find the rate of simple interest per annum. If the sum borrowed becomes 3 times itself in 12 years.





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15. Find the simple interest on Rs 5600 at 20% per annum from May 22 to November 5 of the same year.



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16. If Rs 6000 becomes Rs 6720 in 2 years at simple interest how much does a sum of Rs 10,000 becomes in 5 years at the same rate of simple interest?



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17. The compound interest for 2 years and simple interest for 1 year on a certain sum at certain rate of interest are Rs 3780 and Rs 1800, respectively. Find the 3rd year is Rs 864. Find the principal and rate of interest.



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18. The compound interest on a certain sum at a certain rate of interest for the 2nd year is Rs 720, and for the 3rd year is Rs 864. Find the principal and rate of interest.



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19. Farhan borrowed Rs 25,000 at 10% per annum under compound interest. He repaid a certain amount at the end of the first year and paid Rs 24,750 at the end of 2nd year to

completely disburse the loan. What amount did Farhan repay at the end of the first year?



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20. The compound interest on Rs 1000 is Rs 331 for 3 years at certain rate of interest, what is the rate of interest.



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21. If Rs 6000 is lent at 10% per annum, interest being compounded annually, what is the interest for the 3rd year?



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22. What sum would amount to Rs 17,280 in 3 years, at an interest of 20% per annum rate, interest compounded annually?



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23. If the rate of interest is 20% per annum compounded in every 6 months, then what is the effective rate of interest per annum?



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24. The difference between the compound interest and the simple interest on a certain sum for 2 years is equal to the interest calculated for 1 year on one year's simple interest. (True / False).



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25. Shyam borrowed Rs 18,000 at 15% per annum at compound interest compounded annually. He repaid Rs 10,700 at the end of the 1st year. What is the amount he should pay at the end of 2nd year to completely disburse the loan?



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26. Rajesh borrows Rs 50,000 at simple interest, but the rate of interest is not constant for the entire period, For the first three year it is 10% per annum, for the next two years it is 5% per annum and for next three years it is 8% per annum. He repaid the entire amount after 8 years. How much he have to repay to clear the debt?



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27. Janardhan deposited a certain sum of money in fixed deposit account at $k\%$ per annum interest being compounded annually. If the amount of interest accrued for the 3rd and 4th years is RS 5000 and Rs 6250 respectively, what is the total interest accrued for the first two years?



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28. The difference between compound interest at 10% per annum and simple interest at 8% per annum on a certain sum for 3 years is Rs 910. Find the sum.



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29. Find the simple interest on Rs 3750 at $5\frac{1}{2}\%$ per annum for the period beginning 3rd February 2007 to 29th June 2007.



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30. A sum at 12.5% per annum amounts to Rs 8723 in 5 years at simple interest. Find the sum.



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Short Answer Type Questions

1. The population of a town increase at the rate of 5% every year. Find the population of

the town in the year 2008, if its population in 2005 was 200,00.



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2. Suman borrowed Rs 8000 from Mahesh at 20% per annum at simple interest. After 3 years when to pay the amount at compound interest. How much more Suman have to pay?



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3. Jahangir borrowed Rs 80,000 at the rate of 7% per annum at compound interest, interest being compounded annually. How much should he repay at the end of the first year, so that by repaying Rs 48,792 at the end of the first year, so that by repaying Rs 48,792 at the end of second year, then what is the rate of interest?



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4. Sunil borrowed a certain sum from a moneylender under compound interest, interest being annually. If the interest for the *2nd* year is 2 times the interest for the first year, then what is the rate of interest?



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5. The difference between the simple interest received from two different persons on Rs

1800 for 4 years is Rs 36. The difference between their rates of interest is



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6. The compound interest is earned on a sum of money at a rate of 8% per annum for the first year and 10% per annum for the second year. Find the single equivalent rate of interest on the sum for the two years.



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7. Akhil invested Rs 8000 in a bank, which pays compound interest, compounded semi-annually. He receives Rs 9261 after 18 months from the bank. Find the rate of interest per annum.



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8. A moneylender found that a fall in the annual rate of simple interest from 7% to 6% resulted in his amount of income being reduced by Rs 212.50. Find his capital. (in Rs)



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9. A sum doubles itself in 4 years at simple interest. How many times will it amount in 8 years at the same rate of simple interest?



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10. Mahesh deposited Rs 5000 in Syndicate Bank for 6 months. If the bank pays compound

interest at 12% per annum, reckoned quarterly,
find the interest received by him.



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11. The difference between SI and CI (compounded annually) on a sum of Rs 64,000 for years is Rs 1000. What is the rate of interest per annum?



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12. A sum of Rs 150 is borrowed at simple interest at 4% per annum for the month, 8% per annum for the second month, 12% per annum for the third month, and so on. What is the total amount of interest to be paid at the end of 6 months?



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13. The difference between the CI and SI on a sum of Rs 7200 for two years is Rs 72. Find the

rate of interest per annum.



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14. Roja invested Rs 6000 in a bank, which paid compound interest, interest being compounded semi annually. She received Rs 10,368 after 18 months from the bank. Find the rate of interest. (per annum)



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15. A sum of Rs 40 is borrowed at simple interest, it is borrowed at 2% per annum for the first month, 4% per annum for the second month, 6% per annum for the third month, and so on. What is the total interest to be paid at the end of 6 months? (in Rs)



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Easy Type Questions

1. A certain sum of money at simple interest increases by 50% in 5 years. What will be the compound interest, compounded annually on Rs 13,000 for 3 years at the same rate?



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2. A sum of Rs 100,000 amounts to Rs 171,600 in 3 years under compound interest, interest being compounded annually. It is lent at 10 % per annum for the first year, 20 % per annum

for the second year and $x\%$ per annum for the third year. Find x .



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3. Two persons each lent Rs 2000 at simple interest for 2 years. The difference between the simple interest received by them is Rs 20. Find the difference between the rates of interest.



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4. P and Q borrowed Rs 600 each for a period of 3 years. P paid simple interest at 25 % per annum, interest being compounded annually. Who paid more interest and by how much?



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5. What is the ratio of compound interest accrued on a certain sum in two years at 20 % per annum to the compound interest accrued on the same amount in three years at 10 % per annum.



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6. A certain sum of money becomes Rs 2100 in 4 years and Rs 2550 in 7 years. Find the rate of simple interest per annum.

A. 10 %

B. 8 %

C. 12 %

D. 15 %

Answer: A



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7. There are three amounts a, b and c , such that b is the simple interest on c and c is the simple interest on a . Which of the following must always be true?

A. $a^2 = bc$

B. $b^2 = ac$

C. $c^2 = ab$

D. $a^2 + b^2 = c^2$

Answer: C



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8. If the compound interest on a certain sum of money for 2 years is Rs 3280. What would the corresponding simple interest be, given the rate of interest is 5% per annum?

A. Rs 3150

B. Rs 3200

C. Rs 3100

D. Rs 3050

Answer: B



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9. If the compound interest on a certain sum at 8% per annum, interest compounded annually for 2 years is Rs 2496, then find the simple interest on the same amount at the same rate and for the same period.

A. Rs 2300

B. Rs 2450

C. RS 2400

D. Rs 2375

Answer: C



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10. A sum of Rs 22000 is divided into three parts such that the corresponding interests earned after 1 year at 2% per annum, 4 years at 2% per annum and 16 years at 1% per

annum simple interest are equal. Find the least of the sum which was lent. (in Rs)

A. 1000

B. 2000

C. 5000

D. 4000

Answer: B



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11. The compound interest on a sum of money for two years is Rs 459 and the corresponding simple interest is Rs 450. What is the amount under simple interest on the same amount at the same rate of interest at the end of two years?

A. Rs 6325

B. Rs 6084

C. Rs 6065

D. Rs 5524

Answer: C



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12. A sum of Rs 1750 is lent out at simple interest into two parts, the smaller part being lent at 7% per annum and the larger part at 5% per annum. If the total amount of interest for one year is Rs 98, then find the part which was lent at 5% per annum.

A. Rs 525

B. Rs 975

C. Rs 1225

D. Rs 1350

Answer: C



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13. A sum of money invested at compound interest doubles itself in six years. In how many years will it become 64 times itself at the same rate of compound interest?

A. 30

B. 36

C. 42

D. 48

Answer: B



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14. Two equal sums are lent at simple interest.

The first sum is recovered in 3 years and the

second sum in 6 years. The rate of interest per

annum on the first sum is 2% more than that of the second sum. Find the total sum lent if the amount in each case is Rs 560.

- A. Rs 530
- B. Rs 500
- C. Rs 1480
- D. Rs 1000

Answer: D



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15. A sum was borrowed at simple interest at $R\%$ per annum for 2 years. If it had been borrowed at $(R+5)\%$ per annum it would have become Rs 200 more. Find the sum (in Rs).

A. 2500

B. 2000

C. 3000

D. 1500

Answer: B



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16. The ratio of the interest accrued on a sum, when invested at simple interest for 2 years and the interest accrued on it, if it is invested at compound interest, interest being compounded annually for 3 years at the same rate of interest is 50:91. Find the rate of interest (per annum).



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17. Ravi took a certain amount from Raju at the rate of 8% per annum at simple interest and lent half of the amount to Ramu at 8% per annum at simple interest and the remaining amount to Raghu at 10% per annum at simple interest. If at the end of 10 years, Ravi had a profit of Rs1250 in the deal, then find the amount that Ravi had taken from Raju.

A. Rs 12,500

B. Rs 13,125

C. Rs 2245.50

D. Data insufficient.

Answer: A



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18. Two equal sums were lent at the same time at simple interest rates of 6% and 4% per annum. The first sum was recovered 2 years earlier than the second sum, and the amount in each case was Rs 930. What was the sum lent?

A. Rs 820

B. Rs 780

C. Rs 690

D. Rs 750

Answer: D



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19. A person invested three different amounts at 3% , 5% and 6% per annum at simple interest. At the end of the year, he received the

same interest in each case. If the person's net investment is Rs 4200, then the money invested at 5% is.....

A. Rs 2000

B. Rs 1000

C. Rs 1500

D. Rs 1200

Answer: D



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20. A sum of Rs 3000 is lent out in two parts. The smaller part is lent at 10% per annum and the larger part is lent at 20% per annum. If the total interest in a year is Rs 500m then find the sum lent is 10% per annum (in Rs.).

A. 800

B. 1000

C. 1000

D. 900

Answer: B



21. The integral number of years in which a sum of money at 25% per annum under compound interest will become more than twice itself is at least.

A. 3

B. 2

C. 4

D. 1

Answer: C



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22. Find the least integral number of years in which a sum at 20% per annum compound interest will be more than double.

A. 4

B. 5

C. 3

D. 6

Answer: A



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23. A sum is split into two equal parts. One of part is lent at simple interest at 20% per annum for 6 years. The other part is lent at 40% per annum simple interest for 2 years. The difference in the interest is Rs 71. Find the total sum in Rs.

A. 150

B. 360

C. 240

D. 270

Answer: B



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24. A sum is split into five equal parts. Each part is lent at annual rate of simple interest of 8%, 7%, 5%, 3% and 2%. They are lent for 1 year, 2 years, 3 years, 4 years and 5 years. On

how many parts is the simple interest at least
25 % of the total interest?

A. 1

B. 2

C. 3

D. 4

Answer: A



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25. A sum of Rs 2500 is split into two parts, one part being lent at simple interest and the other part being lent at compound interest, interest being compounded annually. At the end of two years, the total amount of interest earned on the sum is Rs 201. Find the sum lent at simple interest, if both the part are lent at an interest rate of 4% per annum.

A. Rs 1250

B. Rs 1625

C. Rs 1875

D. Rs 1500

Answer: C



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26. A sum is split into five equal parts. They are lent at annual rates of simple interests of 1%, 2%, 3%, 10% and 5%. They are lent for 6 years, 4 years, 3 years, 1 year and 1 year, respectively. The simple interest on how many parts is at least 20% of the total interest?

A. 1

B. 2

C. 3

D. 4

Answer: C



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27. A sum is split into two equal parts. One of the parts is lent at simple interest at 4% per annum for one year. The other part is further

split into three equal parts. These are lent at compound interests, interests being compounded annually. These are lent at 10% per annum for 4 years, 20% per annum for 2 years and 40% per annum for 1 year. The difference between the total compound interest and simple interest is Rs 1184.10 Find the sum. in Rs.

A. 3000

B. 4000

C. 5000

D. 6000

Answer: D



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28. Sreedher borrowed Rs 3500 at 6% per annum for 3 years under simple interest. But, after one year he was asked to pay compound interest for the remaining two years on the sum borrowed initially. How much additional interest Sreedhar has to pay?

A. Rs 10

B. Rs 14.50

C. Rs 12.60

D. Rs 1200

Answer: C



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29. Ajay borrowed Rs 4000 at 10% per annum for 4 years under simple interest. But, after 2 years he was asked to pay compound interest

for the remaining 2 years on the initially borrowed amount. How much Ajay have to pay additionally if interest was compounded annually? (in Rs)

A. 40

B. 20

C. 80

D. 160

Answer: A



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30. A sum of Rs 10,500 is divided into two parts X and Y, such that the interest calculated on X for 4 years is equal to the interest on Y for 6 years. If the rates of interest on X and Y are 8% and 4% respectively find the larger part between X and Y.

A. Rs 5000

B. Rs 6000

C. Rs 6500

D. Rs 7000

Answer: B



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31. A borrowed a certain sum of money from B at the rate of 10% per annum under simple interest and lent one-fourth of the amount to C at 8% per annum under simple interest and the remaining amount to D at 15% per annum under simple interest. If the end of 15 years, A made profit of Rs 5850 in the deal, then find the sum that A had lent to D.

A. Rs 24,500

B. Rs 12,000

C. Rs 9000

D. Rs 18,600

Answer: C



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32. A sum of Rs 62,000 is divided into three parts such that the corresponding interests earned for 3 years, 5 years and 6 years are

equal. If the rates of simple interest are 5% per annum, 4% per annum and 3% per annum, then what is the greatest of the sum that were lens?

A. Rs 18,000

B. Rs 22,000

C. Rs 24,000

D. Rs 26,000

Answer: C



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33. The difference between the compound interest on a sum of Rs 4000, interest being compounded annually and the simple interest on it for two years is Rs 250. Find the rate of interest. (per annum)

A. 0.15

B. 0.1

C. 0.25

D. 0.2

Answer: C



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34. A sum of Rs 4000 is split into two parts. One part is lent at simple interest and the other at compound interest, interest being compounded annually. At the end of two years, the total amount of interest earned is Rs 1720. Find the sum lent at simple interest, if each part is lent at 20% per annum (in Rs.)

A. 120

B. 1000

C. 800

D. 1500

Answer: B



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35. A sum of Rs 1500 amounts to Rs 1680 in 3 years at simple interest. If the interest rate is increased by 2%, it would amount to.....

A. Rs 1770

B. Rs 1815

C. Rs 1590

D. Rs 1850

Answer: A



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36. A sum of money doubles itself in 3 years. At same rate of simple interest, for a period of 9 years, how many times will the sum become?

A. 4

B. 6

C. 8

D. 9

Answer: A



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37. A and B borrowed Rs 600 and Rs 500 respectively for a period of 3 years. A paid simple interest at the rate of 10% per annum,

while B paid compound interest at the rate of 10% per annum compounded annually. Who paid more interest and by how much?

A. A paid more interest by Rs 14.50

B. B paid more interest by Rs 14.50

C. A and B both paid same amount of interest.

D. None of the above.

Answer: A



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38. Due to a fall in the annual rate of interest from 6% to 5%, a person's yearly income reduces by Rs 245.25. His capital is.....

A. Rs 24,525

B. Rs 24,600

C. Rs 23,675

D. Rs 24,000

Answer: A



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39. The cost of a television is Rs15625. Its value depreciates at the rate of 8% per annum. Calculate the total depreciation in its value at the end of 3 years.

A. Rs 3458

B. Rs 3748

C. Rs 3548

D. Rs 3845

Answer: A



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40. The value of an ornament decreases every year at the rate of 5% over that of the previous year. If its value at the end of 2 years is Rs 9025, then what was its original value at the beginning of these two years?

A. Rs 12,000

B. Rs 11,000

C. Rs 10,000

D. Rs 13,000

Answer: C



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41. A certain sum of money triples itself in 6 years at compound interest. In how many years will it become 27 times at the same rate of compound interest?

A. 27

B. 30

C. 24

D. 18

Answer: D



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42. A sum of Rs 24,000 is divided into two parts P_1 and P_2 , such that the simple interest calculated on P_1 for 3 years and on P_2 for 4 years are equal. If the rates of interest on P_1

and P_2 are 4% and 5% respectively, then find the smaller of the parts P_1 and P_2 .

A. Rs 10,000

B. Rs 12,000

C. Rs 8000

D. Rs 9000

Answer: D



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43. A person borrowed two equal sums for two years at the rate of 10 % per annum, from two persons. He borrowed the first sum at simple interest and the second sum at compound interest, compounded annually. The difference between the amount paid by him is Rs.15. Find each equal sum.

A. Rs 1300

B. Rs 2000

C. Rs 1500

D. Rs 2500

Answer: C



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44. A certain sum of money amounts to Rs 4200 in 3 years and to Rs 6000 in 6 years at simple interest. Find the rate of interest.

A. $12\left(\frac{1}{2}\right)\%$

B. 20%

C. 25 %

D. 30 %

Answer: C



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45. A sum of money becomes four times itself in 5 years at a certain rate of interest, compounded annually. In how many years will it become 16 times itself at the same rate of interest?

A. 20

B. 16

C. 12

D. 10

Answer: D



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46. The difference between simple interest and compound interest on a sum of Rs 40,000 for

two years is Rs 900. What is the annual rate of interest?

A. 20 %

B. 10 %

C. 12 %

D. 15 %

Answer: D



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47. The difference between the compound interest (compounded annually) and simple interest, for two years on the same sum at the amount rate of interest is Rs 370. Find the rate of interest if the simple interest on the amount at the same rate of interest for 1 year is Rs 3700.

A. 0.1

B. 0.12

C. 0.16

D. 0.15

Answer: A



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48. A certain sum amounts to Rs 13,310 after 3 years and to rs 16,105.10 after 5 years under compound interest. Find the sum borrowed, if the interest is compounded annually. In (Rs.)

A. 12000

B. 8000

C. 10000

D. 16000

Answer: C



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49. A certain sum amounts to Rs 77,000 in 5 years and to Rs 68,200 in 3 years, under simple interest. If the rate of interest is increased by

2%, then in how many years will it double itself?

A. 8

B. 9

C. 10

D. 12

Answer: C



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50. Find the compound interest on Rs 40,000 at 12% per annum for a period of 2 years. (in Rs).

A. 10176

B. 8000

C. 9176

D. 10000

Answer: A



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51. A person borrowed a certain sum at 25% per annum compound interest (compounded annually) and paid Rs 10,000 at the end of 4 years. Find the borrowed.

A. Rs 4096

B. Rs 5000

C. Rs 5016

D. Rs 4960

Answer: A



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52. Find the amount on the sum of Rs 15,625 for 18 months under compound interest, compounded half yearly at the rate of 16% per annum.

A. Rs 19,683

B. Rs 19,625

C. Rs 20,504

D. Rs 19,625

Answer: A



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53. Rakesh borrowed Rs 42,000 from Rajnikant at 6% per annum simple interest. He lent the same sum to Kishore at 10% per annum compound interest, compounded annually, for 2 years. Find the amount earned by Rakesh in the transaction.

A. Rs 2614

B. Rs 3550

C. Rs 3610

D. Rs 3780

Answer: D



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54. A certain sum amounts to Rs 7935 in 2 years and Rs 9125.25 in 3 years, under compound interest. Find the sum borrowed if interest is compounded annually. (in Rs.)

A. 6000

B. 7500

C. 8000

D. 10000

Answer: A



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55. Ravi lent Ramu a certain sum of money as the rate of $2\left(\frac{1}{2}\right)\%$ per annum, interest

compounded annually. After two years, Rami paid a sum Rs 2560 to Ravi. What amount of money did Ramu borrow from Ravi?

A. Rs 2036.64

B. Rs 2236.64

C. Rs 243.64

D. Rs 2636.64

Answer: C



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56. In how many years will a sum of Rs 26,600, interest compounded quarterly, at the rate of 25 % per annum, amount to Rs 28,900?

A. 1 year

B. $\frac{1}{2}$ year

C. 2 years

D. 4 years

Answer: B



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57. The value of an old bike decreases every year at the rate of 4% over that of the previous year. If its value at the end of three years is Rs 13824, then find its present value.

A. Rs 15,625

B. Rs 14,525

C. Rs 16,625

D. Rs 15,425

Answer: A



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58. At compound interest of 8%, 10% and 12% for three consecutive years, the interest earned in the 3 year is Rs 891. Find the the principal amount. (in Rs.)

A. 6250

B. 6050

C. 6200

D. 6225

Answer: A



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59. A certain amount of money doubles in 4 years under compound interest. In how many additional years will it become 4 times of the principal amount under the same conditions.

A. 8

B. 4

C. 12

D. 16

Answer: A



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60. A sum of money was lent in two parts which were in the ratio of 2: 3 for 2 years and 3 years at simple interest 10%, If the difference between the interest earned is Rs 6000, then find the total sum that was lent.

A. Rs 24,000

B. Rs 36,000

C. Rs 60,000

D. Rs 84,000

Answer: C



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61. The total simple interest at $R_s\%$ per annum and the total compound interest at $R_c\%$ per annum for 2 years on Rs 10,000 are equal. If R_s , R_c are integers, then find the minimum difference between R_s and R_c .

A. 2

B. 4

C. 8

D. 10

Answer: A



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62. Find the amount on Rs 9900 at 20% per annum for 2 years at compound interest (compounded annually).

A. Rs 12,946

B. Rs 13,548

C. Rs 14,256

D. Rs 15,678

Answer: C



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63. Find the amount when Rs 9999 is lent at simple interest for 3 years and a 4 months at 10% per annum (in Rs.)

A. 13332

B. 12332

C. 12232

D. 13333

Answer: A



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64. The compound interest on a certain sum for 2 years is Rs 882, whereas the simple

interest on it is Rs 840. Find the rate of interest.

A. 0.1

B. 0.12

C. 0.08

D. 0.15

Answer: A



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1. A sum of money at simple interest amounts to Rs 800 in 2 years and to Rs 1200 in 6 years.

The sum is.....

A. Rs 600

B. Rs 1000

C. Rs 400

D. Rs 500

Answer: A



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