

Arithmetic - 03



Topics Covered

- SI and CI; Instalments

QA

CEX-Q-0207/25

Number of Questions : **20**

1. Narayan and Murthy invested some money at 6% and 7% per annum respectively of SI. At the end of 2 years they found that together they received Rs. 354 as interest. One-fourth of Narayan's initial investment is equal to one-fifth of the money invested by Murthy. Find the total money invested.
(1) Rs. 2,746.5 (2) Rs. 2,600
(3) Rs. 2,700 (4) Rs. 2,880
2. Bhawna lent part of Rs.10,000 to Myra, one of her friends at 8% SI for 4 years. She invested the remaining amount at 12% SI. Total income from interest after 4 years was Rs. 3,800. What was sum (in Rs.) lent to Myra?
3. Veeru invested Rs 10000 at 5% simple annual interest, and exactly after two years, Joy invested Rs 8000 at 10% simple annual interest. How many years after Veeru's investment, will their balances, i.e., principal plus accumulated interest, be equal?
4. A person invested a total amount of Rs. 15 lakh. A part of it was invested in a fixed deposit earning 6% annual interest, and the remaining amount was invested in two other deposits in the ratio 2 : 1, earning annual interest at the rates of 4% and 3%, respectively. If the total annual interest income at the end of the first year is Rs 76000 then the amount (in Rs lakh) invested in the fixed deposit was
5. Alex invested his savings in two parts. The simple interest earned on the first part at 15% per annum for 4 years is the same as the simple interest earned on the second part at 12% per annum for 3 years. Then, the percentage of his savings invested in the first part is
(1) 62.5% (2) 40%
(3) 60% (4) 37.5%
6. An amount of Rs. 7,000 was divided into two equal parts. The first part was deposited in a bank at simple interest rate of 8% per annum for three years. The second part was deposited in another bank at the rate of 10% per annum, compounded annually, for 2 years. What is the difference in the interests earned from the two amounts?
7. A sum of money compounded annually becomes Rs. 625 in 2 years and Rs. 675 in 3 years. The rate of interest per annum is
(1) 7% (2) 10%
(3) 5% (4) 8%
8. Difference between compound interest and simple interest for 2 years on a sum of money is Rs. 160. If total simple interest is Rs. 2,880, then find rate of interest.
(1) $5\frac{5}{9}\%$ (2) $12\frac{1}{2}\%$
(3) $11\frac{1}{9}\%$ (4) 9%

18. A cellphone is available for Rs. 39000 cash or Rs. 6000 cash down payment followed by 4 equal monthly installments at 24% p.a. compound interest, compounded monthly. Find the value of each installment.
(1) 12000 (2) 15320
(3) 9640 (4) None
19. Suresh borrows Rs. 8,000 at 5% interest, on reducing balance, at the start of the year. If he repays Rs. 1,400 at the end of each year, find the amount of loan outstanding, in Rs. at the beginning of the third year.
(1) 3162.75 (2) 4125.00
(3) 5950.00 (4) 6100.00
20. A person borrowed some money at 16% p.a. compound interest, compounded quarterly. He paid Rs. 17,576 every time to pay back whole amount after 3 months, 6 months and 9 months. Find the initial amount (in Rs.).

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