



MATHS

BOOKS - S CHAND IIT JEE

FOUNDATION

SIMPLE INTEREST

Question Bank 18

1. If the simple interest for 6 years be equal to 30 % of the principal, it will be equal to the

principal after

A. 10 years

B. 20 years

C. 22 years

D. 30 years

Answer: B



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2. Kruti took a loan at simple interest at 6% in the first year with an increase of 0.5% in each subsequent year. She paid Rs 3375 as interest after 4 years. How much loan did she take?

A. Rs 12500

B. Rs 15800

C. Rs 33250

D. Rs 30,000

Answer: A



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3. A sum of Rs 18750 is left by a will by a father to be divided between the two sons, 12 and 14 years of age, so that when they attain maturity at 18, the amount (principal + interest) received by each at 5 per cent simple interest will be the same. Find the sum allotted at present to each son. (a) Rs 9500, Rs 9250 (b) Rs 8000, Rs 1750 (c) Rs 9000, Rs 9750 (d) None of these

A. Rs 9500, Rs 9250

B. Rs 8000, Rs 1750

C. Rs 9000, Rs 9750

D. Rs 10000, Rs 8750

Answer: C



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4. The difference between the simple interest received from two different sources on Rs 1500 for 3 years is Rs 13.50. The difference

between their rates of interest is (a) 0.1% (b) 0.2% (c) 0.3% (d) 0.4% (e) None of these

A. 0.1 %

B. 0.2 %

C. 0.3 %

D. 0.4 %

Answer: C



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5. David invested certain amount in three different schemes A , B and C with the rate of interest 10% p.a., 12% p.a. and 15% p.a. respectively. If the total interest accrued in one year was Rs 3200 and the amount invested in Scheme C was 150% of the amount invested in Scheme A and 240% of the amount invested in Scheme B , what was the amount invested in Scheme B ? (a) Rs 5000 (b) Rs 6500 (c) Rs 8000 (d) Cannot be determined

A. Rs 5000

B. Rs 6500

C. Rs 6000

D. Rs 8000

Answer: A



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6. A person invested in all ₹2600 at 4%.6% and 8% per annum simple interest. At the end of the year. he got the same interest in all the three cases. The money invested at 4% is :

A. Rs 200

B. Rs 600

C. Rs 800

D. Rs 1200

Answer: D



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7. Divide Rs 2379 into 3 parts so that their amounts after 2, 3 and 4 years respectively may be equal, the rate of interest being 5%

per annum at simple interest. The first part is

(a) Rs 759 (b) Rs 792 (c) Rs 818 (d) Rs 828

A. Rs 759

B. Rs 792

C. Rs 818

D. Rs 828

Answer: D



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8. A sum of Rs 1440 is lent out in three parts in such a way that the interests on first part at 2% for 3 years, second part at 3% for 4 years and third part at 4% for 5 years are equal. Then the difference between the largest and the smallest sum is (a) Rs 200 (b) Rs 400 (c) Rs 460 (d) Rs 560

A. Rs 400

B. Rs 560

C. Rs 460

D. Rs 200

Answer: B



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9. With a given rate of simple interest, the ratio of principal and amount for a certain period of time is 4 : 5. After 3 years, with the same rate of interest, the ratio of the principal and amount becomes 5: 7. The rate of interest per annum is

A. 4 %

B. 5 %

C. 6 %

D. 7 %

Answer: B



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10. Rs 1000 is invested at 5% per annum simple interest. If the interest is added to the principal after every 10 years, the amount will

become Rs 2000 after (a) 15 years (b) $16\frac{2}{3}$ years (c) 18 years (d) 20 years

A. 15 years

B. $16\frac{2}{3}$ years

C. 18 years

D. 20 years

Answer: B



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11. Two equal sums of money are lent at the same time at 8% and 7% per annum simple interest. The former is recovered 6 months earlier than the latter and the amount in each case is Rs 2560. The sum and the time for which the sums of money are lent out are Rs 2000, 3.5 years \times 4 years (b) Rs 1500, 3.5 years \times 4 years (c) Rs 2000, 4 years \times 5.5 years (d) Rs 3000, 4 years \times 4.5 years

A. *Rs1500, 3.5years and 4years*

B. *Rs2000, 3.5years and 4years*

C. *Rs2000, 4years and 5.5years*

D. *Rs3000, 4years and 4.5years*

Answer: B



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12. A man borrowed Rs 40,000 at 8% simple interest per year. At the end of second year he paid back certain amount and at the end of fifth year he paid back Rs 35960 and cleared

the debt. What is the amount that he paid back after the second year?

A. Rs 16200

B. Rs 17400

C. Rs 18600

D. Rs 19200

Answer: B



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13. Anand deposited Rs 6000 on simple interest. He withdraw Rs 4000 and its interest from that amount after 2 years. After next 3 years, he withdraw the rest of the amount and its interest accrued till that time. In all he obtained Rs 900 as interest. The rate of interest per annum was

A. 3 %

B. 4 %

C. 5 %

D. 6%

Answer: C



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14. Divide Rs 1586 in three parts in such a way that their amounts at the end of 2, 3 and 4 years at 5% per annum simple interest be equal.

A. Rs 552, Rs 528, Rs 506

B. Rs 560, Rs 520, Rs 506

C. Rs 556, Rs 524, Rs 506

D. Rs 548, Rs 528, Rs 510

Answer: A



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15. A owes B , Rs 1573 payable $1\frac{1}{2}$ years hence.

Also B owes A , Rs 1444.50 payable 6 months

hence. If they want to settle the account

forthwith, keeping 14% as the rate of interest,

then who should pay and how much? A , Rs 28.50 (b) B , Rs 37.50 (c) A , Rs 50 (d) B , Rs 50

A. $A \rightarrow B$, Rs 28.50

B. $B \rightarrow A$, Rs 37.50

C. A to B, Rs 50

D. B to A, Rs 50

Answer: D



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1. Divide Rs 2000 into two sums such that, if the first be put out at simple interest for 6 years at $3\frac{1}{2}$ percent and the second for 3 years at $4\frac{1}{2}$ percent, the interest on the first sum shall be double that fo the second.

A. Rs 725, Rs 1275

B. Rs 1125, Rs 875

C. Rs 1500, Rs 500

D. Rs 635, Rs 1365

Answer: B



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2. A sum of money was borrowed at 6% per annum simple interest. At the end of first year Rs 6800 was paid off and the rate of interest on the balance was reduced to 5% per annum. If the interest for the second year was $\frac{11}{20}$ of the interest for the first year what was the original sum borrowed?

A. Rs 10000

B. Rs 12000

C. Rs 17000

D. Rs 15000

Answer: C



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3. Divide Rs 7053 into three parts so that the amount after 2, 3 and 4 years respectively may

be equal, the rates of interest being 4% per annum.

A. Rs 2500, Rs 3500, Rs 1053

B. Rs 2432, Rs 2346, Rs 2265

C. Rs 2568, Rs 3200, Rs 1285

D. Rs 2360, Rs 2289, Rs 2404

Answer: B



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4. A sum of money at simple interest amounts to Rs 9440 in 3 years. If the rate of interest is increased by 25% the same sum amounts to Rs 9800 in the same time . The original rate of interest is

A. 10 % p.a

B. 8 % p.a

C. 7.5 % p.a

D. 6 % p.a

Answer: D



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5. A borrowed Rs. 7000 from bank, after 3 years she Returned Rs. 3000 to the bank, After 5 years from starting she returned Rs. 5450 and settle her account. Find the rate of interest.

A. 4 %

B. 5 %

C. 6 %

D. 8%

Answer: B



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