MBA PATHSHALA WITH UDIT SAINI

For CAT, XAT, NMAT, GMAT, SNAP, IIFT, MAHCET and OMETs.

CAT

Previous Year Questions

ON

SIMPLE & COMPOUND

INTEREST

CAT & OMETs Content by Udit Saini

1. For the same principal amount, the compound interest for two years at 5% per annum exceeds the simple interest for three years at 3% per annum by Rs 1125. Then the principal amount in rupees is   [TITA]   **[CAT-2020-Slot 2]**

Click on the link to watch the video solution :- https://youtu.be/iWFQZGWJuiU?t=1369

2. 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?

[TITA]   **[CAT-2020]**

Click on the link to watch the video solution :- https://youtu.be/-Muk1Zpn_kk?t=782

3. A person invested a certain amount of money at 10% annual interest, compounded half-yearly. After one and a half years, the interest and principal together became

Rs. 18522. The amount, in rupees, that the person had invested is

 [TITA]   **[CAT-2020]**

Click on the link to watch the video solution :- https://youtu.be/IiZdfw4b-TQ?t=283

4. An amount borrowed at simple interest gets tripled in 24 years. How many years does it take to get doubled, if the interest rate is same.   [TITA]   **[CAT-2015]**

Click on the link to watch the video solution :- https://youtu.be/lkWPrlITDB0?t=179

5. 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 is Rs 76000 then the amount (in Rs lakh) invested in the fixed deposit was   [TITA]   **[CAT-2019]**

Click on the link to watch the video solution :- https://youtu.be/LLyMnGkoC5U?t=391

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6. Amal invests Rs 12000 at 8% interest, compounded annually, and Rs 10000 at 6% interest, compounded semi-annually, both investments being for one year. Bimal invests his money at 7.5% simple interest for one year. If Amal and Bimal get the same amount of interest, then the amount, in Rupees, invested by Bimal is   [TITA]   **[CAT-2019]**

Click on the link to watch the video solution :- https://youtu.be/LLyMnGkoC5U?t=928

7. John borrowed Rs. 2,10,000 from a bank at an interest rate of 10% per annum, compounded annually. The loan was repaid in two equal instalments, the first after one year and the second after another year. The first instalment was interest of one year plus part of the principal amount, while the second was the rest of the principal amount plus due interest thereon. Then each instalment, in Rs., is: [TITA]   **[CAT-2018]**

Click on the link to watch the video solution :- https://youtu.be/LLyMnGkoC5U?t=1401

8. Gopal borrows Rs. X from Ankit at 8% annual interest. He then adds Rs. Y of his own money and lends Rs. X+Y to Ishan at 10% annual interest. At the end of the year, after returning Ankit's dues, the net interest retained by Gopal is the same as that accrued to Ankit. On the other hand, had Gopal lent Rs. X+2Y to Ishan at 10%, then the net interest retained by him would have increased by Rs. 150. If all interests are compounded annually, then find the value of X + Y.   [TITA]
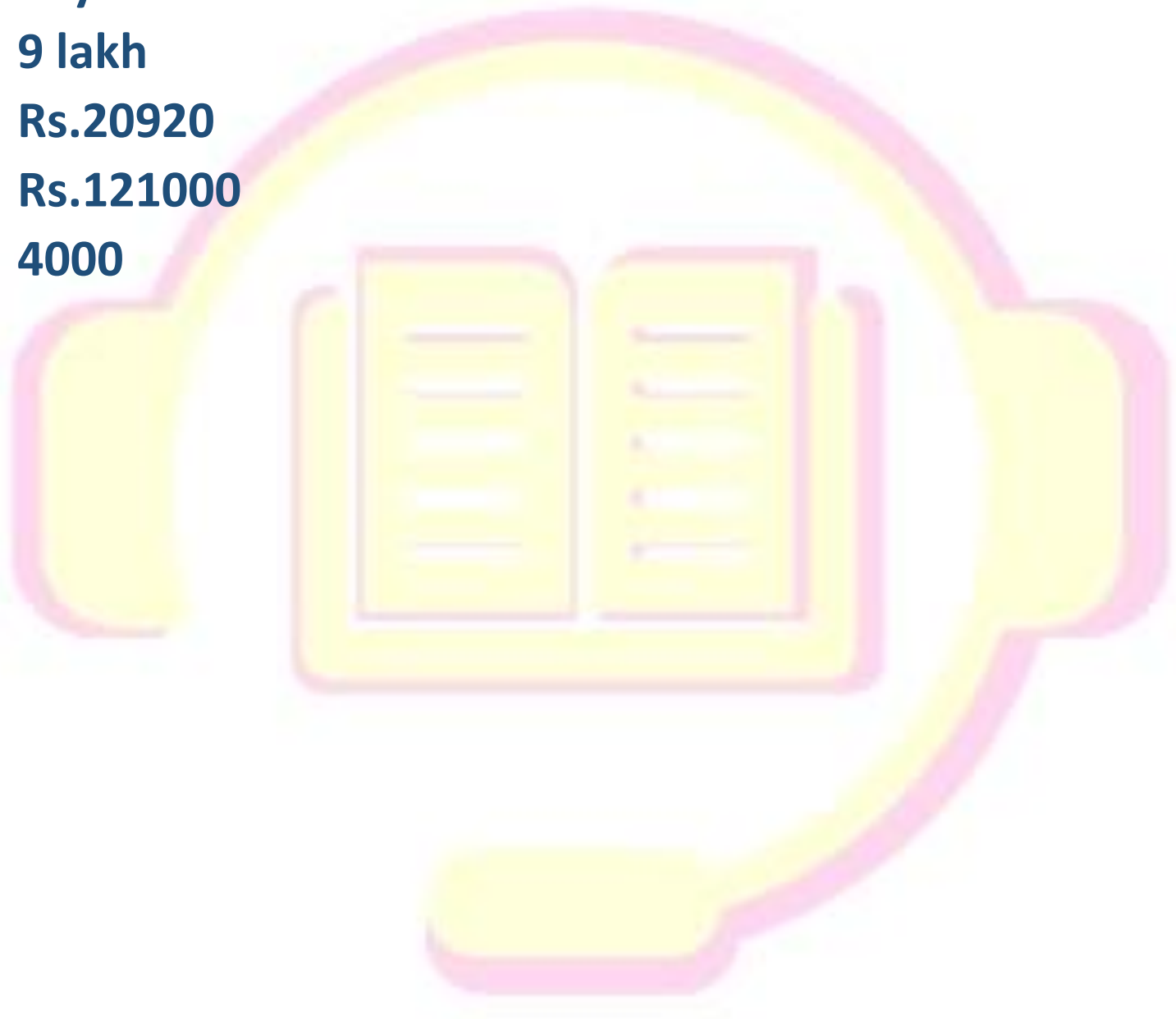**[CAT-2018]**

Click on the link to watch the video solution :- https://youtu.be/LLyMnGkoC5U?t=2244

ANSWER KEY

1. **90000**
2. **12 years**
3. **16000**
4. **12years**
5. **9 lakh**
6. **Rs.20920**
7. **Rs.121000**
8. **4000**

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  https://youtube.com/playlist?list=PLLtQdEJkug7vLA4qmuCJtB_AJ7HP518xT

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