



ST. LAWRENCE HIGH SCHOOL



A Jesuit Christian minority Institution

Subject: Mathematics

Class- X

Date: 8/02/2021

Topic: Compound Interest

Worksheet-7

Full marks -15

1. Choose the correct alternative. 1x15=15
- a) At 5% compound interest per annum, find the compound interest on Rs 10,000 for 3 years.
i) Rs 1576 ii) Rs 1576.25 iii) Rs 1756.25 iv) none of these
- b) Find the compound interest on Rs 1000 at the rate of 10% compound interest per annum and the interest being compounded 6 months interval.
i) Rs 102.50 ii) Rs 105.20 iii) RS 100.50 iv) none of these
- c) Calculate what sum of money will amount to Rs 3528 after 2 years at the rate of 5% compound interest per annum.
i) Rs 3400 ii) Rs 450 iii) Rs 3200 iv) none of these
- d) The simple interest and compound interest of a certain amount of money for 2 years are Rs 840 and Rs 869.40. Calculate the sum of money and rate of interest.
i) Rs 6000 and 7% ii) Rs 7000 and 6% iii) Rs 10000 and 9% iv) none of these
- e) Calculate at what rate of interest Rs 5000 will amount to Rs 5832 in 2 years.
i) 8% ii) 10% iii) 7% iv) 6%
- f) In how many years Rs 5000 will become Rs 6050 at the rate of compound interest 10% per annum.
i) 3 yrs ii) 5 yrs iii) 2 yrs iv) 4 yrs

- g) Find the principal if compound interest is Rs 2648 after getting 8 % rate of compound interest per annum for 3 years.
- i) Rs 6000 ii) Rs 7000 iii) Rs 8000 iv) Rs 9000
- h) A person deposited Rs 100 in a bank and got Rs 121 for 2 years . The rate of compound interest is
- i) 10% ii) 12% iii) 8% iv) none of these
- j) The height of a tree increases at the rate of 20% every year. If the present height of the tree is 28.8 m , calculate the height of the tree 2 years before.
- i) 25 m ii) 20 m iii) 15 m iv) 18 m
- k) Weight of Savan babu is 80 kg. In order to reduce his weight , he started regular morning walk. He decides to reduce his weight every year by 10%. Find his weight after 3 year.
- i) 32.58 kg ii) 55.32 kg iii) 58.32 kg iv) none of these
- l) As the farmers are becoming more alert of the harmful effects of applying only the chemical fertilisers and insecticides in agricultural lands , the number of farmers using fertilisers and insecticides in the village of Rasulpur decreases by 20% in a year in a comparison to the previous year. Three years before the number of such farmers was 3000. Calculate the number of such farmers in that village now.
- i) 1536 ii) 2000 iii) 1356 iv) 1350
- m) Find out rate of compound interest p.a so that the amount on Rs 400 for 2 years becomes Rs 441.
- i) 3% ii) 6% iii) 5% iv) 8%
- n) Find out price of a motor car after 3 years if price of the car depreciates at the rate of 30% every year. Present price of the car is 3 lac.
- i) Rs 102900 ii) Rs 129000 iii) Rs 192000 iv) Rs 109200
- o) The compound interest on Rs 30,000 at 7% rate of compound interest is Rs 4347. Find out time period.
- i) 3 yrs ii) 4 yrs iii) 2 yrs iv) none of these

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