ST. LAWRENCE HIGH SCHOOL

A Jesuit Christian minority Institution

Subject: Mathematics   Class- X   Date: 8/02/2021

Topic: Compound Interest   Answer key of 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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