

Board – ICSE

Class –VIII

Topic – Interest

- Find the simple interest and amount in each of the following:
 - $P = \text{Rs. } 1800$ $R = 5\%$ $T = 1$ year
 - $P = \text{Rs. } 3125$ $R = 15\%$ $T = 73$ days
- A sum amount to Rs 2400 at 15% simple interest per annum after 4 years. Find the sum.
- In how many years will Rs. 600 double itself at 10% simple interest?
- At what rate per cent per annum will Rs. 4000 yield an interest of Rs 410 in 2 years?
- Find the compound interest on \$5000 for 3 years at 8% per annum, compounded annually.
- Find the compound interest on \$5000 for 1 year at 8% per annum, compounded half-yearly.
- Vijay borrowed Rs. 5,000 and agreed to pay interest at the rate of 10%, 12%, and 14% for the first, second and third year respectively. Find the total amount he had to pay after 3 years.
- Find the compound interest on Rs. 6400 for 2 years, compounded annually at 7.5% per annum.
- Find the amount and the compound interest on Rs. 8,000 at 10 % per annum for $1\frac{1}{2}$ years if the interest is compounded half-yearly.
- A sum of money is invested at compound interest payable annually. The interest in two successive years is Rs. 225 and Rs. 240. Find the rate of interest, the original sum and the interest for 3rd year.

Answer

- a) Rs 90, Rs 1890 b) Rs.93.75, Rs.3218.75
- Rs.1500
- Year = $8\frac{1}{3}$
- Rate = $5\frac{1}{8}\%$
- C.I = Rs. 1298.56
- C.I = Rs. 408
- Amount = Rs.7,022.40
- Compound interest = Rs 996.
- The amount is Rs. 9,261 and the compound interest is Rs 1,261
- $\text{ROI} = \frac{20}{3}\%$; amount at end of 2 year = Rs3840 and Interest for 3rd year = Rs.256