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(Affiliated to CBSE up to +2 Level)

CLASS: VII

SUB.: MATHS

DATE: 22-07-2021

Examples of S.I.

Example 1: Rishav takes a loan of Rs 10000 from a bank for a period of 1 year. The rate of interest is 10% per annum. Find the interest and the amount he has to pay at the end of a year.

Solution: Here, the loan sum = $P = \text{Rs } 10000$

Rate of interest per year = $R = 10\%$

Time for which it is borrowed = $T = 1$ year

Thus, simple interest for a year, $SI = (P \times R \times T) / 100 = (10000 \times 10 \times 1) / 100 = \text{Rs } 1000$

Amount that Rishav has to pay to the bank at the end of the year = Principal + Interest = $10000 + 1000 = \text{Rs } 11,000$

Example 2: Namita borrowed Rs 50,000 for 3 years at the rate of 3.5% per annum. Find the interest accumulated at the end of 3 years.

Solution: $P = \text{Rs } 50,000$

$R = 3.5\%$

$T = 3$ years

$SI = (P \times R \times T) / 100 = (50,000 \times 3.5 \times 3) / 100 = \text{Rs } 5250$

Example 3: Mohit pays Rs 9000 as an amount on the sum of Rs 7000 that he had borrowed for 2 years. Find the rate of interest.

Solution: $A = \text{Rs } 9000$

$P = \text{Rs } 7000$

$SI = A - P = 9000 - 7000 = \text{Rs } 2000$

$T = 2$ years

$R = ?$

$SI = (P \times R \times T) / 100$

$R = (SI \times 100) / (P \times T)$

$R = (2000 \times 100 / 7000 \times 2) = 14.29\%$

Thus, $R = 14.29\%$