



Simple Interest

Understanding: Simple Interest

- Simple Interest (S.I.) is the money paid or earned on a principal amount for a fixed time at a fixed rate.
- It is used in banks, loans, savings, and borrowing situations.

Important Terms

- **Principal (P):** The original amount of money lent or borrowed
- **Rate (R):** The interest rate per year in percentage
- **Time (T):** The time for which the money is borrowed or lent (in years)
- **Simple Interest (S.I.):** Extra money paid or earned

Formula

- $$\text{S.I.} = \frac{P \times R \times T}{100}$$

Examples with Solutions

Example

Find the S.I. on ₹1000 at 5% for 2 years

$$\text{S.I.} = \frac{1000 \times 5 \times 2}{100} = 100$$

Simple Interest = ₹100

Example

Find the S.I. on ₹1500 at 4% for 3 years

$$\text{S.I.} = \frac{1500 \times 4 \times 3}{100} = 180$$

Simple Interest = ₹180

Example

P = ₹2000, R = 6%, T = 1 year

$$\text{S.I.} = \frac{2000 \times 6 \times 1}{100} = 120$$

Simple Interest = ₹120



Example

A person borrows ₹500 for 2 years at 10%

$$\text{S.I.} = \frac{500 \times 10 \times 2}{100} = 100$$

Simple Interest = ₹100

Example

Find the time if P = ₹600, R = 5%, S.I. = ₹60

$$\text{Use formula: } T = \frac{\text{S.I.} \times 100}{P \times R} = \frac{60 \times 100}{600 \times 5} = \frac{6000}{3000} = 2$$

Time = 2 years

Summary Points

- Simple Interest = $\frac{P \times R \times T}{100}$
- Principal is the starting amount.
- Rate is always per year unless mentioned.
- Time should be in years.
- Used in banking, loans, deposits, and savings.