S.I. and C.I.

Formula

Simple Interest

daily basis

$$S.I. = \frac{P \times R \times T}{100 \times 365/366}$$

365 → Non leap year

366 → leap year

monthly basis

$$S.I. = \frac{P \times R \times T}{100 \times 12}$$

yearly basis

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

Amount for S.I.

$$A = P\left(1 + \frac{RT}{100}\right)$$

Amount = principle + Interest

Ratio

$$\frac{C.I.}{S.I.} = 1 + \frac{R}{200}$$

Difference of S.I. and C.I.

for 2 year

$$C.I. - S.I. = \frac{P \times R^2}{100^2}$$

for 3 year

$$C.I. - S.I. = \frac{P \times R^2 (300 + R)}{100^3}$$

for S.I.

$$R = \frac{(n-1) \times 100}{t}$$

R → Rate; n → times; t → Year

Compound Interest

$$C.I. = P\left[\left(1+\frac{R}{100}\right)^{n}-1\right]$$

Amount for C.I.

$$A = P\left(1+\frac{R}{100}\right)^{n}$$

Key points – Code for C.I.

for 2 year	for 3 year	for 4 year
2, 1	3, 3, 1	4, 6, 4, 1

★ Amount to ⟶ Amount

Amount of ⟶ principle