

Simple Interest Quick Maths Formulas

1. $SI = p * t * r / 100$
 2. The annual payment that will discharge a debt of INR A due in t years at the rate of interest r% per annum is = $(100 * A) / [(100 * t) + r * t * (t-1)] / 2$
 3. $P = (Interest * 100) / [(t1 * r1) + (t2 * r2) + (t3 * r3) + \dots]$
 4. $Rate = [100 * (Multiple\ number\ of\ principal - 1)] / Time$
 5. $Sum = (More\ Interest * 100) / (Time * More\ Rate)$
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Compound Interest Quick Maths Formulas

1. When Interest is compounded annually –

$$\text{Amount} = P [1 + (r/100)]^t$$

2. When Interest is compounded half-yearly –

$$\text{Amount} = P [1 + (r/200)]^{2t}$$

3. When Interest is compounded quarterly –

$$\text{Amount} = P [1 + (r/400)]^{4t}$$

4. When rate of Interest is r1%, r2% and r3% then –

$$\text{Amount} = P [1 + (r1/100)] * [1 + (r2/100)] * [1 + (r3/100)]$$

5. Simple Interest for 2 years = $2 * r = 2r\%$ of capital

6. Compound Interest for 2 years = $[2r + (r^2/100)]\%$ of capital

7. Simple Interest for 3 years = $3*r = 3r\%$ of capital

8. Compound Interest for 3 years = $[3r + (3r^2/100) + (r^3/100^2)]\%$ of capital