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Important Formulas of Simple Interest

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List of 10 Important Formulas of Simple Interest

Important Formulas of Simple Interest ⌙

Annual Simple Interest ⌙

1) Annual Rate of Simple Interest ⌙

Open Calculator ⌙

$$\textit{fx} \quad r_{Annual} = \frac{100 \cdot SI_{Annual}}{P_{Annual} \cdot t_{Annual}}$$

$$\textit{ex} \quad 10 = \frac{100 \cdot 200}{1000 \cdot 2\,Year}$$

2) Final Amount of Simple Interest ⌙

Open Calculator ⌙

$$\textit{fx} \quad A_{Annual} = P_{Annual} \cdot \left(1 + \frac{r_{Annual} \cdot t_{Annual}}{100}\right)$$

$$\textit{ex} \quad 1200 = 1000 \cdot \left(1 + \frac{10 \cdot 2\,Year}{100}\right)$$

3) Principal Amount of Simple Interest ⌙

Open Calculator ⌙

$$\textit{fx} \quad P_{Annual} = \frac{100 \cdot SI_{Annual}}{r_{Annual} \cdot t_{Annual}}$$

$$\textit{ex} \quad 1000 = \frac{100 \cdot 200}{10 \cdot 2\,Year}$$

4) Simple Interest ⤴

Open Calculator ⤴

$$fx \quad \text{SI}_{\text{Annual}} = \frac{P_{\text{Annual}} \cdot r_{\text{Annual}} \cdot t_{\text{Annual}}}{100}$$

$$ex \quad 200 = \frac{1000 \cdot 10 \cdot 2\text{Year}}{100}$$

5) Time Period of Simple Interest ⤴

Open Calculator ⤴

$$fx \quad t_{\text{Annual}} = \frac{100 \cdot \text{SI}_{\text{Annual}}}{P_{\text{Annual}} \cdot r_{\text{Annual}}}$$

$$ex \quad 2\text{Year} = \frac{100 \cdot 200}{1000 \cdot 10}$$

Semi Annual Simple Interest ⤴

6) Final Amount of Semi Annual Simple Interest ⤴

Open Calculator ⤴

$$fx$$

$$A_{\text{Semi Annual}} = P_{\text{Semi Annual}} \cdot \left(1 + \frac{2 \cdot r_{\text{Semi Annual}} \cdot t_{\text{Semi Annual}}}{100}\right)$$

$$ex \quad 16000 = 10000 \cdot \left(1 + \frac{2 \cdot 20 \cdot 1.5\text{Year}}{100}\right)$$

7) Principal Amount of Semi Annual Simple Interest 📲

Open Calculator 📲

$$fx \quad P_{\text{Semi Annual}} = \frac{SI_{\text{Semi Annual}} \cdot 100}{2 \cdot r_{\text{Semi Annual}} \cdot t_{\text{Semi Annual}}}$$

$$ex \quad 10000 = \frac{6000 \cdot 100}{2 \cdot 20 \cdot 1.5\text{Year}}$$

8) Semi Annual Rate of Simple Interest 📲

Open Calculator 📲

$$fx \quad r_{\text{Semi Annual}} = \frac{SI_{\text{Semi Annual}} \cdot 100}{2 \cdot P_{\text{Semi Annual}} \cdot t_{\text{Semi Annual}}}$$

$$ex \quad 20 = \frac{6000 \cdot 100}{2 \cdot 10000 \cdot 1.5\text{Year}}$$

9) Semi Annual Simple Interest 📲

fx **Open Calculator** 📲

$$SI_{\text{Semi Annual}} = \frac{2 \cdot P_{\text{Semi Annual}} \cdot r_{\text{Semi Annual}} \cdot t_{\text{Semi Annual}}}{100}$$

$$ex \quad 6000 = \frac{2 \cdot 10000 \cdot 20 \cdot 1.5\text{Year}}{100}$$

10) Time Period of Semi Annual Simple Interest 📲

Open Calculator 📲

$$fx \quad t_{\text{Semi Annual}} = \frac{1}{2} \cdot \frac{SI_{\text{Semi Annual}} \cdot 100}{P_{\text{Semi Annual}} \cdot r_{\text{Semi Annual}}}$$

$$ex \quad 1.5\text{Year} = \frac{1}{2} \cdot \frac{6000 \cdot 100}{10000 \cdot 20}$$

Variables Used

- A_{Annual} Final Amount of Simple Interest
- $A_{Semi\ Annual}$ Final Amount of Semi Annual SI
- P_{Annual} Principal Amount of Simple Interest
- $P_{Semi\ Annual}$ Principal Amount of Semi Annual SI
- r_{Annual} Annual Rate of Simple Interest
- $r_{Semi\ Annual}$ Semi Annual Rate of Simple Interest
- SI_{Annual} Simple Interest
- $SI_{Semi\ Annual}$ Semi Annual Simple Interest
- t_{Annual} Time Period of Simple Interest *(Year)*
- $t_{Semi\ Annual}$ Time Period of Semi Annual SI *(Year)*

Constants, Functions, Measurements used

- Measurement: **Time** in Year (Year)
  Time Unit Conversion 🔗

Check other formula lists

- **Compound Interest Formulas** ⬀ • **Simple Interest Formulas** ⬀

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