1-A-1 Simple Interest

Simple Interest is just linear growth in the amount of money. The simple interest rate is the rate of growth over each period.

A - amount at the beginning, or principal

 ${f S}$ - amount at the end, or final amount

i - interest rate per period expressed as a decimal (%/100)

n - number of periods

Then we have

$$Amount of Interest = I$$

$$= A \cdot i \cdot n$$

and

$$S = A + I$$
$$= A(1 + in)$$

Read this way \Rightarrow

Notes:

- i is a percentage of the <u>beginning</u> amount, but it is credited at the <u>end</u> of each period.
- Interest rates are annual and the period is a year unless otherwise stated