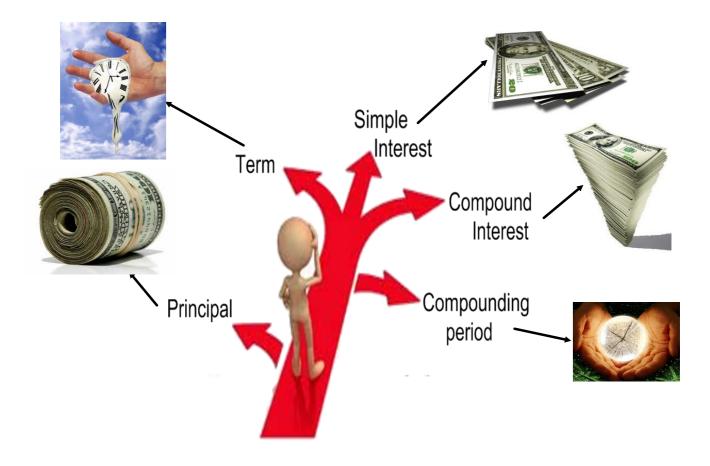
Simple and Compound Interest





Simple Interest

- Interest calculated as a percentage of the principal.

1 = Interest

P= Principal

r = rate (as a decimal)

t = time in years

Compound Interest - The interest paid on the

principal plus interest

Terminology Tango

of compounds per year

annualy

semi-annually

quarterly

monthly

semi-monthly

bi-weekly

weekly

daily

SIMPLE interest

 $\underline{Interest} = \underline{Principal} \times \underline{rate} \times \underline{time}$

I = Prt

- · Principal is the amount you invest or borrow.
- Interest rate expressed as a decimal.
 Exi. 7.1% → 0.071
- · Time in years

Gordon wants to invest \$2000.00. His bank offers an investment option that earns simple interest at a rate of 1.75% per year. How much interest will he earn in 1 year?

Given:

$$P = 2000.00$$

 $C = 1.75\%$
 $C = 0.0175$
 $C = 1.75\%$
 $C = 1.75\%$
 $C = 1.75\%$
 $C = 1.75\%$
 $C = 1.75\%$

Gordon wants to invest \$2000.00. His bank offers an investment option that earns simple interest at a rate of 1.75% per year. How much interest will he earn if he invests for 3 years?

Given:
$$1 = \underline{2c} \pm 1$$
 $P = 3000.00$
 $1 = (3000)(0.0175)(3)$
 $1 = 1.75\%$
 $1 = 1.75\%$
 $1 = 1.75\%$
 $1 = 1.75\%$
 $1 = 1.75\%$
 $1 = 1.75\%$
 $1 = 1.75\%$
 $1 = 1.75\%$

Betty-Ann's bank offers a simple interst rate of 4% per affirm. How much interest would Betty-Ann earn on her investment of \$4000 after 8 months?



Given:
$$I = Pct$$
 $P = 4000.00
 $I = (4000)(0.04)(8)$
 $I = (4000)(0.04)(8)$
 $I = (1080)(10.04)(8)$
 $I = (1080)(10.04)(8)$
 $I = (1080)(10.04)(8)$
 $I = (1080)(10.04)(8)$

The interest earned on a deposit is \$25 with an interest rate is 6% per annum. If the money was invested for 2 years, what is the principal?

Homework

