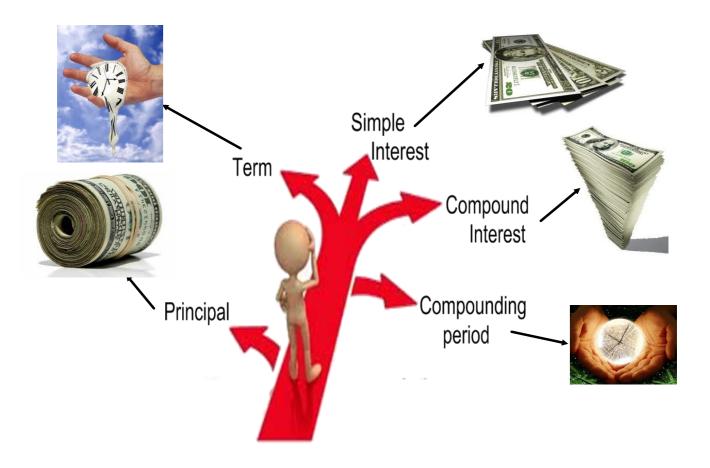
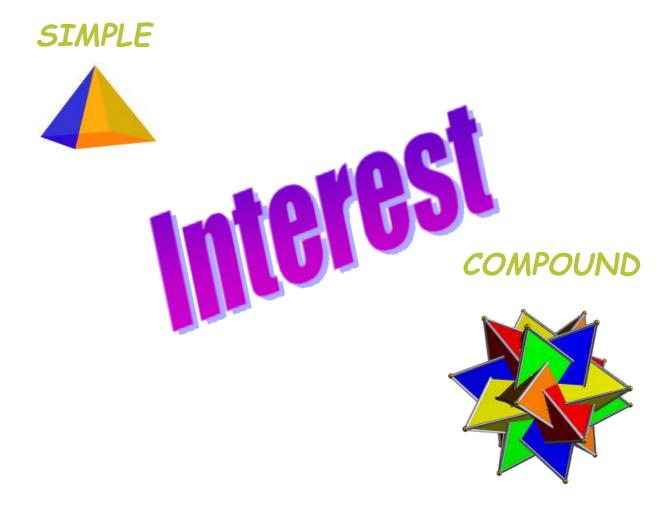
Simple and Compound Interest







- Interest calculated as a percentage of the principal.

- the interest paid on the principal plus interest

Terminology Tango

daily
semi-annually
monthly
quartly



twice a year
four times a year
365 times a year
twelve times a year

Click on the picture to verify the match.

SIMPLE Interest

Interest = Principal x rate x time

I = Prt



Gordon wants to invest \$2000.00. His bank offers an investment option that earns simple interest at a rate of 1.75% per year.

I = Prt

I = (2000.00)(0.0175)(1)

I = \$35.00



Gordon wants to invest \$2000.00. His bank offers an investment option that earns simple interest at a rate of 1.75% per year for 1.75% years.

I = Prt

I = (2000.00)(0.0175)(1)(3)

I = \$105.00

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

months.

I = Prt

 $I = 4000 (0.04) (\frac{8}{12})$

I = 4000 (0.04) (0.66)

I = \$106.67



Time

years!!

Use the simple interest formula to determine answer this question.

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?



$$I = Prt$$

$$25 = P(0.06)(2)$$

$$\frac{25}{0.12} = \frac{P(0.12)}{0.12}$$

$$0.12$$

$$\$208.33 = P$$

$$P = \$208.33$$