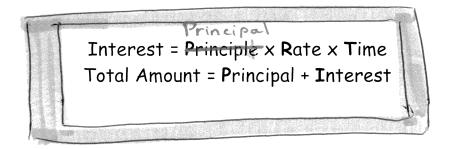
## Simple-Interest

<u>Interest</u> is either what you pay the bank for borrowing money or what the bank pays you for investing money. The formula for simple interest is below. The <u>Principal</u> is the amount of money that is invested or borrowed. The interest <u>Rate</u> is the percent charged or earned and is written as a decimal. <u>Time</u> is listed in the amount of years.



Let's try some examples...

1. Morgan has \$700 in her savings account. If the bank pays 5% interest, how much money will Morgan have in her account twenty years from now?

$$I = PRT$$

$$I = (700)(.05)(20)$$

$$I = 700$$

$$TA = P + I$$
 $TA = 700 + 700$ 



2. Mr. Ito took out a 6-month loan of \$1500 at an 8% yearly interest rate. How much must Mr. Ito repay at the end of the 6 months?

$$I = PRT$$
 $I = (1500)(.08)(.5)$ 
 $I = 60$ 

3. Ian deposits \$900 in a savings certificate that pays  $6\frac{1}{2}$ % annually. How much will Ian have at the end of one year?

$$I = PRT$$

$$I = (900)(.065)(i)$$

$$I = 58.50$$

$$TA = P + I$$
 $TA = 900 + 58.50$ 
 $TA = 958.50$ 

Ian will have 958,50 at the end of one year!

4. Doreen invested \$1200 at 7% for three years. What will Doreen's investment be worth at the end of the 3 years?

$$I = PRT$$
 $I = (1200)(.07)(3)$ 
 $I = 252$ 

$$TA = P + T$$
 $TA = 1200 + 252$ 
 $TA = *1452$ 

Dorech's investment will be worth \$1452