- OThe interest is either the amount that you pay in exchange for borrowing money or the amount that you earn by allowing a portion to be invested
- OSimple interest is interest that is only calculated on the original amount borrowed or invested
- OWe call the borrowed/invested amount the principal

- OWhen we calculate simple interest, we look at years or parts of a year
- ORemember 1 year = 12 months = 365 days
- OSimple interest rates are usually written as a percentage per year
- OInterest rates are the percent of the principal that is paid or earned as interest



- OTo calculate simple interest, we use the formula
 - OI = Prt
- OI stands for interest
- OP stands for principal
- OR stands for interest rate per year
- OT stands for time in years

- OSarah is saving for a new motorcycle helmet
 - OShe has saved \$600 and will invest it foliaix months
 - OThe interest rate for her investment is 1.5% per year
- OHow much interest will Sarah earn on her investment?
- OI = Prt

$$OI = 600 \times 1.5\% \times \frac{6}{12} = $4.5$$

- OSue is planning a trip to the United States
- OShe has invested \$5000 with an annual interest rate of 0.5%
- Olf Sue withdraws her money after 120 days, how much interest will she earn?
- OI = Prt

$$OI = 5000 \times 0.5\% \times \frac{120}{365} = $8.23$$

- Olt is important to consider the total value of the loan or investment after the time period has finished
- OThis the total amount
- OYou find this by adding the principal and the interest

- OUsing what we calculated with our previous examples
- OHow much money will Sarah have after her investment period is over?
- OA = P + I
- OA = \$600 + \$4.5
- OSarah will have \$604.5

- OHow much money will Sue have for her trip?
- OA = P + I
- OA = \$5000 + \$8.23
- OSue will have \$5008.23 for her trip