**Learn and get to know your calculator!!**
Know the difference between the MINUS button and the NEGATIVE button.
Know how to SQUARE a number and SQUARE ROOT a number.



What is the **2nd** button? All the buttons on your calculator have double duty. They have more than one function. The 2nd button is used to run the function shown above each button.

**Know how to convert your answers into fraction form:**
use the **MATH** button
hit 1 for **1:FRAC** which means fraction
**ENTER**

When you are suing a graphing calculator, it is very similar to a mini-computer. You should type your problems just like they appear on paper, in homework, or in class.

**Don't forget some simple rules!**
Zero divided by any number = zero. This mean zero is on top of a fraction.
Any number divided by zero = undefined. This means zero is on the bottom a fraction.

Any number raised to the power of zero = 1

A negative number times a negative number = a positive number
A negative number times a positive number = a negative number

**EXAMPLES:** perform the indicated operation using your calculator and give all digits in your calculator

$2.8 \times (3.2 - 1.1) =$ 5.88

$\sqrt{37.38711025} =$ 6.1145

MATH 4: $\sqrt[3]{}$ $\sqrt[3]{700.227072} =$ 8.88

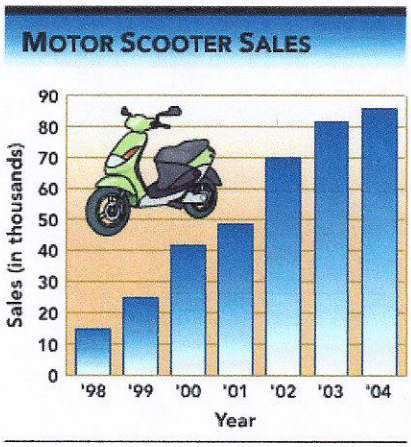
$\sqrt[6]{3.21} =$ 1.214555893 6 MATH 5: $\sqrt[x]{}$

$\frac{(12.3+18.276)}{(3 \times 1.4)} =$ 7.28

$\frac{2\pi}{\sqrt{3}} =$ 3.627598728

$3.49^2 =$ 12.1801 $1.48^6 =$ 10.50921537 $120^0 =$ 1

**EXAMPLE:**
The bar graph in the figure below show the US sales of motor scooters which have gained popularity. The graph compares sales in thousands. Answer the following questions:



*Source:* Motorcycle Industry Council.

1. Estimate sales in 2000 and 2004.

   $41,000 $85,000

2. In what years were sales greater than 50 thousand?

   2002, 2003, 2004

3. Describe the change in sales as the years progressed?

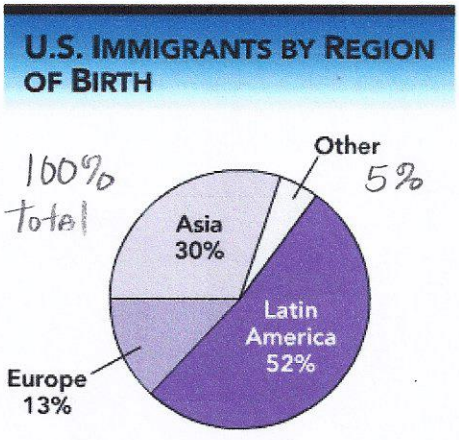
   increases

**EXAMPLE:**
The circle graph below shows the approximate percent of immigration admitted into the US during the 1900s. Answer the following questions:

1. What percent of immigrants were from the "other" countries?

   5%

   100%
   − 30
   −13
   −52



*Source:* U.S. Bureau of the Census.

2. What percent of immigrants were not from Asia?

   13 + 52 + 5 = 70%

3. If the circle represents 2,000,000 immigrants, then how many would be from Europe?

   $\frac{13\%}{100} = .13$

   (2,000,000)(.13) = 260,000