

**Problem 1 – Converting fractions, decimals, and percents**

1. Enter  $\frac{1}{4}$  into your calculator. Type the numerator,  $\boxed{1}$  first, press  $\boxed{\frac{b}{c}}$ , and type the denominator  $\boxed{4}$ .

To write  $\frac{1}{4}$  as a decimal, press  $\boxed{F \leftrightarrow D}$  and then  $\boxed{\text{ENTER}}$ .

Write the decimal. \_\_\_\_\_

2. Enter 0.20 into your calculator.

To write 0.20 as a fraction, press  $\boxed{F \leftrightarrow D}$  and then  $\boxed{\text{ENTER}}$ .

Write the fraction. \_\_\_\_\_

3. Enter 0.23 into your calculator.

To write 0.23 as a percent, press  $\boxed{\times} \boxed{1} \boxed{0} \boxed{0}$  and then  $\boxed{\text{ENTER}}$ .

Note that the symbol for percent is %.

Write the percent. \_\_\_\_\_

A **mixed number** has a whole number part and a fraction part. It can be written as an **improper fraction**, whose numerator is greater than or equal to the denominator.

4. Enter  $6\frac{1}{2}$  into your calculator. Type the whole number  $\boxed{6}$ , and then press  $\boxed{\text{UNIT}}$ . Type the numerator of the fraction part  $\boxed{1}$ , press  $\boxed{\frac{b}{c}}$ , and enter the denominator of the fraction part  $\boxed{2}$ .

To write  $6\frac{1}{2}$  as an improper fraction, press  $\boxed{A \frac{b}{c} \leftrightarrow \frac{a}{b}}$ , and then  $\boxed{\text{ENTER}}$ .

Write  $6\frac{1}{2}$  as an improper fraction. \_\_\_\_\_

Write the improper fraction as a decimal. \_\_\_\_\_

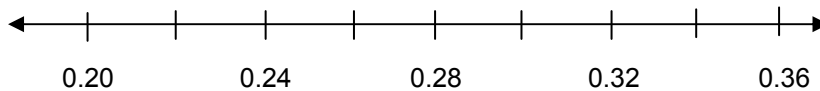
Write the decimal as a percent. \_\_\_\_\_



## Problem 2 – Using relationships between fractions, decimals, and percents

Order the numbers 34%,  $\frac{6}{25}$ , and 0.22 from least to greatest, and graph them on the number line.

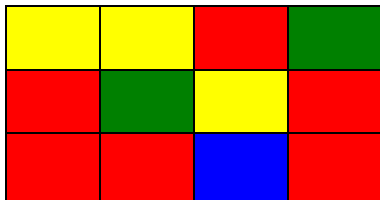
5. Use your calculator to convert 34% to a decimal. \_\_\_\_\_
6. Use your calculator to convert  $\frac{6}{25}$  to a decimal. \_\_\_\_\_
7. Write the numbers in order from least to greatest. \_\_\_\_\_
8. Graph the numbers on the number line.



## Problem 3 – Write a number as a fraction, decimal, or percent

Complete the table. Write the number of yellow, red, green, and blue rectangles as a fraction, decimal, and percent. Use your calculator to convert the numbers.

*Note:* Simplify fractions to lowest terms.



Color	Number	Fraction	Decimal	Percent
yellow				
red				
green				
blue				

**Problem 4 – Use data to make a circle graph**

Use the data from the table to create a circle graph on your calculator.

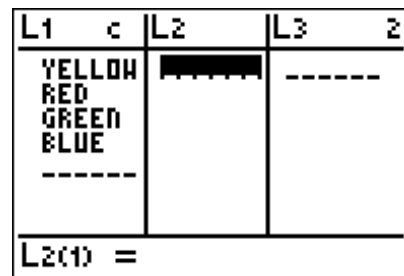
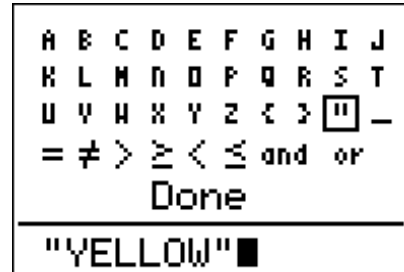
Enter the color names into list **L1**.

**Step 1:** Press  $\boxed{\text{LIST}}$   $\boxed{2\text{nd}}$   $\boxed{\text{MATH}}$ . Use the arrow keys to move the cursor to select the quotation mark first.

Select the letters Y, E, L, L, O, and W.  
 Select the quotation mark again. Then select **Done**, and press  $\boxed{\text{ENTER}}$  on the lists screen.

**Step 2:** Press  $\boxed{2\text{nd}}$   $\boxed{\text{MATH}}$ . Repeat the steps above to enter RED, GREEN, and BLUE into **L1**.

**Step 3:** Enter the fractions or decimals into list **L2**.



Set up the circle graph as shown at the right.

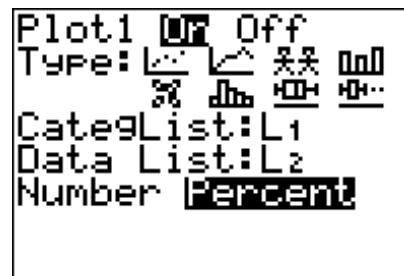
**Step 4:** Press  $\boxed{2\text{nd}}$   $\boxed{\text{Y=}}$  to reach the **STAT PLOTS** menu. Press  $\boxed{\text{ENTER}}$  to select **Plot1**.

**Step 5:** Press  $\boxed{\text{ENTER}}$  to turn **Plot1** on.

Use  $\boxed{\blacktriangleright}$  to select the circle graph as **Type**.

Set **CategList:** **L1** and **Data List:** **L2**. Press  $\boxed{2\text{nd}}$   $\boxed{\text{LIST}}$ . Press  $\boxed{1}$  for **L1** and  $\boxed{2}$  for **L2**.

Press  $\boxed{\text{ENTER}}$  on **Percent**.



**Step 6:** Press  $\boxed{\text{GRAPH}}$  to show the circle graph of the data.

Sketch your graph.

