



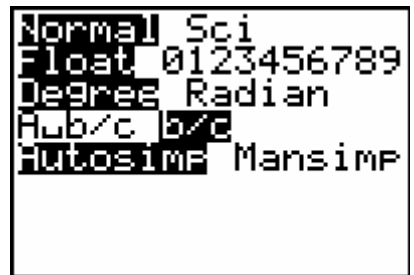
7TH GRADE TI-73 ACTIVITY 33: FRACTION CENTS

ACTIVITY OVERVIEW:

In this activity we will

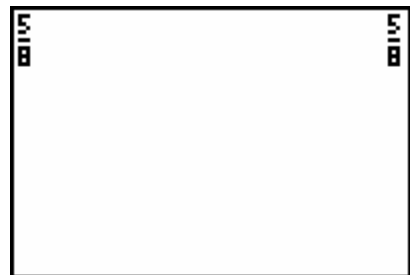
- Examine and develop understanding of decimal values of fractions

To get the calculator set, press the **MODE** key and set your window like the one on the right. You can use the arrow keys to move to items you need to change and press **ENTER** to select them.

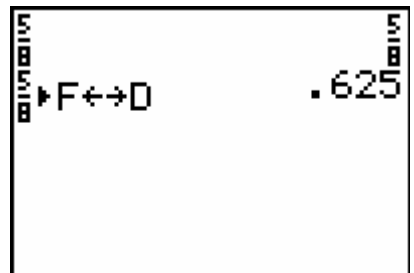


First of all, you will become familiar with the **b/c** and **F↔D** keys. The **b/c** key writes fractions in the form you are probably familiar. The **F↔D** key is a two way key that converts a fraction to a decimal and a decimal to a fraction.

To type in $5/8$, press the 5 and then press the **b/c** key. Then enter the 8 and press **ENTER**.



In order to convert the fraction to a decimal, enter the fraction as described above, press the **F↔D** key and press **ENTER**.



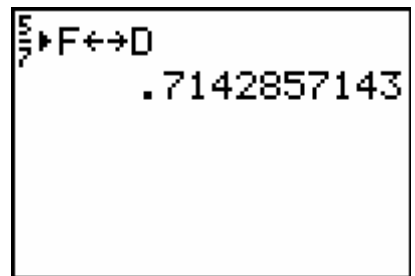
You can retrieve previous work by pressing the up arrow key \uparrow until you highlight the work you want and press ENTER .

This activity will help you develop fraction/decimal sense.

For each fraction you want to find a denominator that will get you as close as possible to the target decimal.

For example, if you are given $5/_ = .35$, you need to enter a denominator with a numerator of 5 that will be close to .35 when you convert it. You can only use **whole numbers** for the denominator.

If you guess 7 then your entry on your calculator would look like the screen on the right. Not very close to .35. Why would someone enter 5/7?



Based on this guess, try a guess yourself to get closer to the .35 target.

One the right are your problems. You can do this with a partner and see who is closest each time.

$$6/_ = .4 \quad 10/_ = .8$$

$$8/_ = .44 \quad 20/_ = .7$$

$$3/_ = .3 \quad 9/_ = .4$$

$$25/_ = .2 \quad 7/_ = .90$$

Now that you have had a chance to practice, write a strategy you would use to estimate a fraction that would be as close as possible to a certain decimal.

Extension

Take the same numbers and now you are allowed to use numbers with decimals. This should let you get closer to some of the targets

$6/_ = .4 \quad 10/_ = .8$

$8/_ = .44 \quad 20/_ = .7$

$3/_ = .3 \quad 9/_ = .4$

$25/_ = .2 \quad 7/_ = .90$