Study the following.

Changing fractions to decimals can be done three ways.

<u>First Way</u>:   If the denominator is a multiple of 10, like 10, 100, 1000, etc., just say
the fraction out loud and write this as a decimal.
Example: 7/10   Say seven tenths. Write as a decimal as .7 .

3/100   Say three hundredths. Write .03 .

Write the following fractions as decimals.

1.   4/10

2.   7/10

3.   9/10

4.   8/10

5.   34/100

6.   47/100

7.   3/1000

8.   16/1000

9.   356/1000

Study the following.

If the numerator is larger than the denominator, you will get a whole number part to the decimal.

Example: 17/10   Say seventeen tenths. Write 1.7 because the 7 must be in the tenths place.

Write the following fractions as decimals.

1.   13/10

2.   15/10

3.   38/10

4.   232/100

5.   3344/100

6.   857/100

7.   33/10

8.   4599/100

9.   432/10

10.   82/10

Study the following.

Changing fractions to decimals.

Second Way- Change the fraction to a denominator that is a multiple of ten
like 10, 100, 1000 etc. Then solve as in the First Way.

Example: 2/5 Change to tenths by multiplying top and bottom by
2.

$$\frac{2}{5} \times \left(\frac{2}{2}\right) = \frac{4}{10}$$

Now say four tenths, and write as a decimal. .4

Use the Second Way to write the following fractions as decimals.

1. 4/5

2. ½

3. 7/50

4. 3/25

5. 1/20

6. 23/2

7. 17/5

Study the following.

Changing fractions to decimals.

Note: If you don't know how to divide and get a decimal answer skip this section until you complete the <u>Dividing Decimals</u> chapter.

<u>Third Way</u> – Divide the numerator by the denominator.

     Example: 4/5

$$\begin{array}{r} .8 \\ 5\overline{)4.0} \end{array}$$

     4 divided by 5

     The answer is .8

This way can be used for any fraction.

     Example: 110/25

$$\begin{array}{r} 4.4 \\ 25\overline{)110.0} \\ \underline{100} \\ 100 \\ \underline{100} \\ 0 \end{array}$$

     The decimal is 4.4

Use the Third Way to write the following fractions as decimals.

1.   5/2   2.   16/20

3.   3/25   4.   5/250