Study the following.

To change a decimal to a fraction, figure out what place the last digit is in. Then write the number without the decimal as the numerator, and the place value as the denominator.

Example: .7 is tenths, so as a fraction it is 7/10

.73 is hundredths, so as a fraction it is 73/100

.04 is hundredths, so as a fraction it is 4/100

After changing to a fraction, reduce if possible.

Example: .2 is 2/10 and 2/10 can be reduced to 1/5

Change to a fraction, and reduce is possible.

1.   .8

2.   .17

3.   .06

4.   .231

5.   .9

6.   .85

7.   .3

8.   .31

9.   .999

Study the following.

This works the same for numbers that have a whole number part and a decimal part.

Examples: 2.3 is tenths, so as a fraction it is 23/10.

20.71 is hundredths, so as a fraction it is 2071/100

Change the following to fractions.
(Do not reduce or change to a mixed fraction.)

1.   3.5

2.   7.1

3.   9.23

4.   12.4

5.   5.83

6.   6.237

7.   355.3

8.   100.34

9.   3.44

10.   6.772

11.   3.05

Study the following.

Another way to write a decimal that has a whole number part, is to write the whole number part first and then write only the decimal part as a fraction. You end up with a mixed fraction.

Example: 2.7   can be written as 2 7/10

whole number part decimal part

Change the following to a mixed fraction.
(Do not reduce.)

1.   4.6

2.   7.93

3.   10.4

4.   155.05

5.   4.8

6.   100.9

7.   3.0005

8.   2.1134

9.   64.034

Solve the following two different ways.

Decimal	1. Change to a fraction. 2. Reduce the fraction. 3. Change to a mixed fraction.	1. Write the whole number and the fraction as a mixed fraction. 2. Reduce.
6.5		
10.25		
3.4		
8.75		
300.16		