

# Changing Fractions to Decimals

A fraction is another way of writing a division problem. To change a fraction to a decimal, divide the numerator by the denominator.

**Examples 1** About  $\frac{1}{20}$  of the heat in a house is lost through the doors. Write this fraction as a decimal.

$\frac{1}{20}$  means  $1 \div 20$  or  $20 \overline{)1}$ .

$$\begin{array}{r} 0.05 \\ 20 \overline{)1.00} \end{array}$$

So,  $\frac{1}{20} = 0.05$ .

Tip:

Simplify fractions if you can BEFORE you setup the division:

EX)  $5/100 = 1/20$

**2** Express  $\frac{1}{3}$  as a decimal.

$$\begin{array}{r} 0.33... \\ 3 \overline{)1.00} \end{array}$$

$\frac{1}{3} = 0.33... \text{ or } 0.\overline{3}$  The bar status shows that 3 repeats.

Show ALL work on attached loose leaf, label it properly. -- Thanks, Mr. C.

**Express each fraction as a decimal. Use bar notation if necessary.**

1.  $\frac{4}{25}$

2.  $\frac{3}{5}$

3.  $\frac{7}{20}$

4.  $\frac{3}{50}$

5.  $\frac{9}{10}$

6.  $\frac{7}{8}$

7.  $\frac{1}{3}$

8.  $\frac{14}{16}$

9.  $\frac{20}{30}$

10.  $\frac{5}{9}$

11.  $\frac{19}{20}$

12.  $\frac{5}{200}$