Converting Fractionsto Dedimals

| Word | Definition | Examples/ Picture |
| :---: | :---: | :---: |
| Terminating decimals | Each decimal has a definite number of decimal places | $\begin{array}{lll}0.1 & 0.25 & 2.4839\end{array}$ |
| Non-terminating decimals | Each decimal has an infinite number of decimal places | $\begin{gathered} 0.91374928379234 \ldots \\ \pi \end{gathered}$ |
| Repeating decimals | Some digits in each decimal repeat forever | $\begin{gathered} \hline 0.12121212 \ldots \\ 0.687687687 \ldots \\ 0 . \overline{81} \end{gathered}$ |
| Numerator | The top number in a fraction | 2 is the numerator |
| Denominator | The bottom number in a fraction | $\frac{2}{3}$ <br> 3 is the denominator |
| Equivalent fractions | Fractions that have the same value | $\frac{2}{3} \text { and } \frac{6}{9}$ |
| Front-end estimation | A technique used to estimate the sum or difference of decimals | $\begin{gathered} 23.2+56.8 \\ 23+56=79 \end{gathered}$ |
| Quotient | The result when one number is divided by another | $20 \div 2=10$ |
| Dividend | The number being divided | dividend divisor quotient |
| Divisor | A number that will divide the dividend exactly |  |
| Order of operations | A series of 'rules' about how to properly solve equations | $\begin{gathered} \text { BEDM AS } \\ (2+3)^{2} \times 4-99=1 \end{gathered}$ |

Example 1: Write each fraction as a decimal: $\frac{3}{5}, \frac{17}{200}, \frac{4}{13}$

1. Try to write each fraction with a denominator of 10,100 , or 1000 . If you cannot, use long division!

Example 2: Write each decimal as a fraction: $0.07,0.97,0.083$

1. Look at each decimal and identify the highest decimal place. This number will be the denominator. If there is a line above the decimal (meaning that the decimal is repeating), the denominator will be the highest decimal place subtract 1.
