

Chapter 2-6 Fractions and Decimals

SWBAT convert fractions to decimals and decimals to fractions.

al that
"STOPS".

IN $\frac{4}{25}$ OUT Divide Bottom into TOP

$$\begin{array}{r} .16 \\ 25 \overline{) 4.00} \\ \underline{-25} \\ 150 \\ \underline{-150} \\ 0 \end{array}$$

② Change the decimal back to a fraction

Sixteen Hundredths

$$\frac{16}{100} \xrightarrow{\text{GCF } \div 4} \frac{4}{25}$$

$$.125 =$$

One hundred twenty five
Thousandths

$$\frac{125}{1000} \div \frac{5}{5} = \frac{25}{200} \div \frac{25}{25} = \frac{1}{8}$$

Repeating Decimals

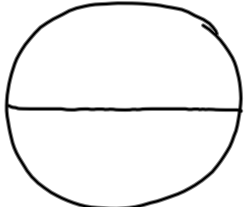
$$\frac{3}{11}$$

$$\begin{array}{r} \overline{.2727} \\ 11 \overline{) 3.0000} \\ \underline{-22} \\ 80 \\ \underline{-77} \\ 30 \\ \underline{22} \\ 80 \end{array}$$

Line goes ^{to} the first
repeating digit, or digits

Non Terminating

$$\pi = 3.142857143$$

Note  = $\frac{22}{7}$

1.00 =
 .875
 .750
 .625
 .500
 .375
 .250
 .125

$\frac{1}{2}$ $\frac{1}{4}$ $\frac{1}{8}$ $\frac{1}{16}$ $\frac{1}{32}$ $\frac{1}{64}$
 " " " " " "
 $\frac{1}{4}$ $\frac{1}{8}$ $\frac{1}{16}$ $\frac{1}{32}$ $\frac{1}{64}$

