

Fraction - Decimal Conversions

Fraction Review

$\frac{\text{numerator}}{\text{denominator}}$

- Divide numerator
by denominator

$$\frac{3}{4} = 3 \div 4$$

Decimal Review

decimal
↓

• tenths hundredths thousandths ten thousandths

Fractions to Decimals

$$\frac{\text{numerator}}{\text{denominator}}$$
 I turn to the right

$$\left. \begin{array}{l} \text{denominator} \\ \text{numerator} \end{array} \right\}$$

$\frac{1}{2} \rightarrow 2 \overline{)10} = .5$

$$\begin{array}{r} 2 \overline{)10} \\ \underline{-10} \\ 0 \end{array} = .5$$

$\frac{1}{8} = 8 \overline{)1000} = .125$

$$\begin{array}{r} 8 \overline{)1000} \\ \underline{-8} \downarrow \\ 20 \\ \underline{-16} \downarrow \\ 40 \\ \underline{-40} \\ 0 \end{array} = .125$$

Decimals to Fractions

$$\begin{array}{l} \bullet 5 \\ \uparrow \\ \text{tenths} \end{array} = \frac{5}{10} = \frac{1}{2}$$

$$\begin{array}{l} \bullet 25 \\ \uparrow \\ \text{hundredths} \end{array} = \frac{25}{100} = \frac{1}{4}$$