

# CONVERTING FRACTIONS TO DECIMALS

To convert a fraction into a decimal, we divide the numerator by the denominator, and then write the result as a decimal.

Examples:

$$\frac{37}{100} = 0.37$$

$$\frac{5}{8} = 8 \overline{) 5.000}^{0.625} = 0.625$$

$$\frac{1}{3} = 0.33333 \dots = 0.\dot{3}$$

$$\frac{13}{11} = 1.181818 \dots = 1.\dot{1}\dot{8} \text{ or } 1.\overline{18}$$

$$\frac{12}{7} = 1.714285714285 \dots = 1.\dot{7}1428\dot{5} \text{ or } 1.\overline{714285}$$

# CONVERTING DECIMALS TO FRACTIONS

To convert a terminating decimal into a fraction, we express the decimal as a fraction with the denominator being a power of 10, and then we simplify the fraction whenever possible.

Example:

$$0.25 = \frac{25}{100} = \frac{1}{4}$$

$$0.239 = \frac{239}{1000}$$