## Fix Those Fractions!! Self-Help Guide!

## Understanding Fractions

A fraction is a ratio that compares the part to the whole.

## Example \#1: What does $\frac{1}{8}$ mean?

If a pizza is cut into 8 slices that are equal in size, each slice represents $\frac{1}{8}$ of the pizza or 1 slice out of the 8 slices that make up the whole pizza.


$$
\frac{1 \text { slice (part) }}{8 \text { slices in (whole)pizza }}
$$

Example \#2: What does $\frac{3}{16}$ mean?
If three parts are shaded out of the sixteen pieces that make up the whole, then $\frac{3}{16}$ of the rectangle is shaded. Note that each part is congruent (the same shape and same size).


The number above the fraction bar is the numerator; the number below the fraction bar is the denominator. The fraction bar indicates that the numerator is divided by the denominator.

$$
\frac{\text { numerator }}{\text { denominator }} \longleftarrow \div \text { (divided by) }
$$

The fractions shown above are proper fractions. Their numerators are smaller than their denominators. If the numerator is larger than the denominator, the fraction is improper.

$$
\text { Proper Fraction } \rightarrow \frac{5}{9} \quad \text { Improper Fraction } \rightarrow \frac{11}{9}
$$

