Fractions

Fractions are numbers.

Some fractions, like $\frac{1}{2}$ and $\frac{3}{4}$, are less than 1.

Some fractions, like $\frac{2}{2}$ and $\frac{4}{4}$, are equal to 1.

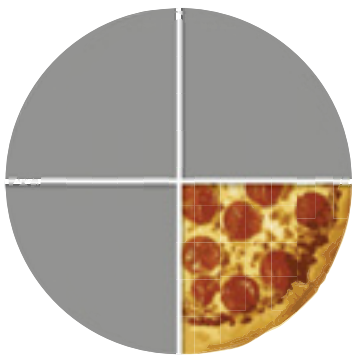Some fractions, like $\frac{6}{4}$ and $\frac{3}{2}$, are greater than 1.

Fraction Notation

The denominator is the total number of equal shares.

$\frac{3}{4}$

three fourths

The numerator is the number of equal shares out of the total.

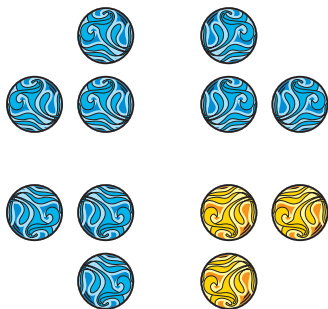Charles cut a pizza into four equal pieces and ate three pieces.

The whole pizza has four equal parts, or slices.

$\frac{3}{4}$

Charles ate three pieces.

3 out of 4 equal pieces were eaten.

Samantha has 12 marbles in her collection. Nine twelfths of her marbles are blue.

There are 12 marbles in the whole group.

$\frac{9}{12}$

Nine of the marbles are blue.

9 out of 12 equal parts are blue.

What fraction of the pizza was not eaten?
What fraction of the marbles are not blue?