

# NATURAL FRACTIONS

# Why

We want to express how many parts (of equal size) of a whole there are.

### **Definition**

A fraction (or natural fraction, ratio) is an ordered pair (a, b) of natural numbers where  $b \neq 0$ . a is called the numerator and b is called the denominator.

If a < b then the fraction is called *proper* (a *proper fractiont*). Otherwise, the fraction is called *improper* (an *improper fraction*).

The fraction is a unit fraction if a = 1.

#### Notation

We denote the fraction (a, b) by a/b or

 $\frac{a}{b}$ 

# Etymology

The word fraction comes from the Latin fractus, meaning broken.

