

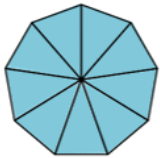
# Fractions

## Year 3

### Fractions within 1 in the Linear Number System.

#### Vocabulary:

Fraction Notation Divided Equal Numerator Denominator Whole Parts  
 Fraction Bar (Vinculum) Half Third Quarter Fifth Sixth Seventh Eighth  
 Ninth Tenth One-\_\_\_\_\_ Linear Number Line Bar Model Vertical Horizontal

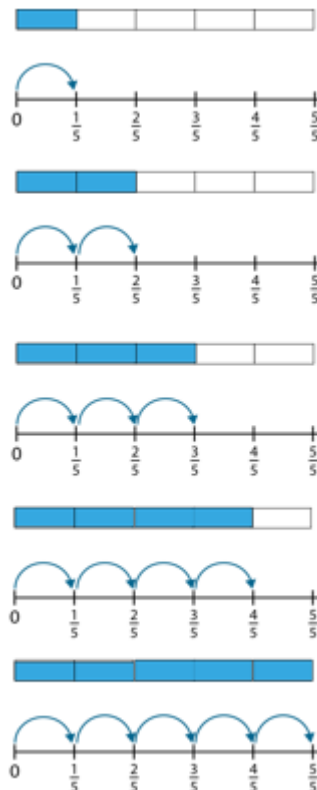
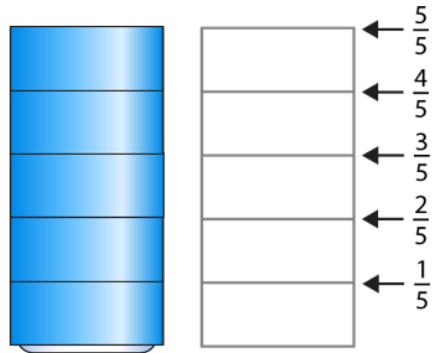
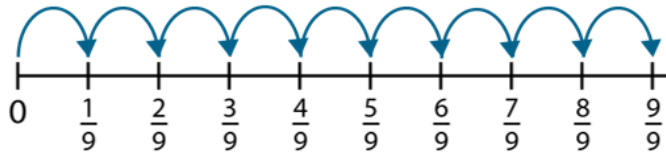


$$\frac{9}{9}$$

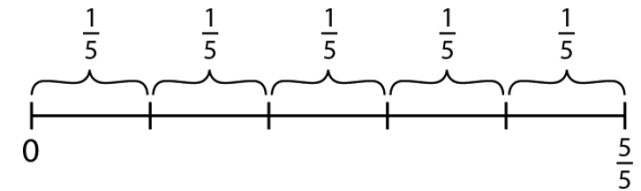
We can represent fractions on both horizontal and vertical number lines.

The whole is divided into \_\_\_ equal parts. Each part is \_\_\_ of the whole.

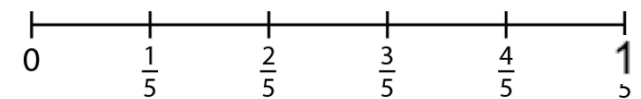
The whole is made up of 9 one-ninths.



Fractions as part of a whole



Fractions as numbers



Fractions should be seen as part of a whole and as numbers which have their own unique place on a number line.

**Generalisation:**

When the numerator and denominator are the same, the fraction has a value of 1.

# Fractions

## Year 4

### Mixed Numbers in the Linear Number System

#### Vocabulary:

Fraction Notation Divided Equal Numerator Denominator Whole Parts  
Fraction Bar (Vinculum) Half Third Quarter Fifth Sixth Seventh Eighth  
Ninth Tenth One-\_\_\_\_ Add Subtract (Minus) Number line Part-Part-Whole  
Model Units Previous Next Estimate Intervals

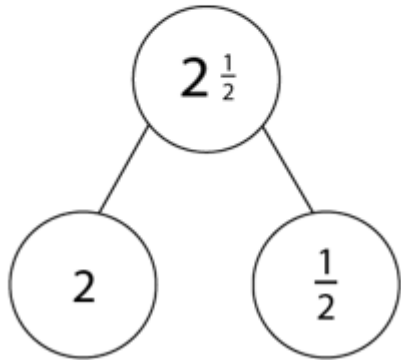


Quantities that are made up of both wholes and parts are called Mixed Numbers.

There are two whole oranges. There is half an orange.  
There are two and a half oranges altogether.

*There are more than two whole oranges.*

*There are less than three whole oranges.*



We can place Mixed Numbers on a number line.

*There are \_\_\_ parts between zero and one. This means we are counting in units of \_\_\_.*

The line is divided into \_\_\_ equal parts. This means we are counting in \_\_\_s.

We can use our knowledge of ordering proper fractions to order Mixed Numbers.

*$1\frac{1}{7}$  is between 1 and 2. The previous number is 1. The next number is 2.*

We can use our knowledge of placing mixed numbers on a number line to estimate the position of a Mixed Number on a blank number line.

