

Place Value for Parents

tens	ones
3	8

38 is a 2 digit number with 3 tens and 8 ones which is $30 + 8$.

Place value is the value of each digit in a number. The number **182** is made up of **100, 80** and **2**. **In grade 2, we learn the value of numbers up to 100.**

A **digit** is one of the ten symbols that make up numbers. (0, 1, 2, 3, 4, 5, 6, 7, 8 and 9)

A **two-digit number** is made up of two of these digits, for example 35 or 80. A **three-digit number** is made up of three digits, for example 458 or 903.

The **value** of a digit depends on its place (or position) in the number. For example in the number 168, the 1 has a value of 100, the 6 has a value of 60 and the 8 has a value of 8. We refer to these places as the

hundreds place, tens place and ones place.

e.g. The number **48** could be expressed as **4 tens and 8 ones** because there is 4 in the tens place and 8 in the ones place. We can also say that 48 is **$40 + 8$** .

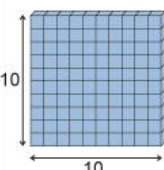
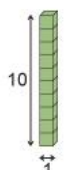

Numbers can be represented in different ways. For example, 51 can be shown as $50+1$ or $40+11$ or $30+21$ and so on. This is difficult for some students to understand at first.

This website provides more detail: <http://www.mathsisfun.com/place-value.html>

In school, different manipulatives are used to help make place value clear to children. We use rods and units, money and ten frames.

Rods and Units are cubes which are used to show the value of a number. A small cube is called a **unit** and it represents **one**, ten cubes together are called a **rod** and they represent **ten**. A child might be given some rods and units and asked to make a number such as 43. They would need to use 4 ten rods and 3 one units. This helps makes it clear to them that a two-digit number is made up of tens and ones.

We also use frames of ten squares and counters as well as dimes and pennies to show tens and ones.

hundred(s)	ten(s)	one(s)
 <p>The flat is made up of ten rods in a group or 100 one-cubes in a group.</p> <p>It represents 100 objects grouped together.</p>	 <p>The rod is made up of ten one-cubes in a group.</p> <p>It represents ten objects grouped together.</p>	 <p>The one-cube is the smallest block.</p> <p>It represents a single object.</p>

This picture below shows 1 full ten frame and 4 more ones which is 14.

