

# The number 1

The number one is a very peculiar number instead of other numbers. We silently suppose the pure number one with noughts from itself to the left or to the right until the infinity.

This is a pure number 1

$$+\infty \dots 0000000000000000**1**.0000000000000000\dots - \infty$$

This is not a pure number 1.

$$+\infty \dots 0000000000000000**1**.0000000000000000\dots 00**1**000\dots - \infty$$

In other way we can write the number 1 in a second record. With numbers 9 to the right until the infinity. 1

$$+\infty \dots 0000000000000000**0.9999999999999999**\dots - \infty$$

It seems possible to write the following equation

$$**1 = 0.9999999999999999 \dots**$$

The proof follows

we know

$$\frac{\mathbf{1}}{\mathbf{9}} = \mathbf{0.1111111111111111 \dots}$$

both sides of the equation we multiply by number 9

then we obtain

$$9 * \frac{\mathbf{1}}{\mathbf{9}} = 9 * \mathbf{0.1111111111111111 \dots}$$

after a reduction of both sides the proof is over.

$$**1 = 0.9999999999999999 \dots**$$

A lot of people think it's impossible. They are partly right. In our universe it's impossible to realize such equation. The reason - our universe is finite. Our universe has certain volume through the time.