

Learning arithmetic operations

Studying arithmetic operations in the "Ten" concentrator

- to ensure that children learn rational computational techniques of addition and subtraction within the first ten;
- develop correct computing skills;
- to achieve memorization of the results of addition and subtraction, as well as the composition of the first ten numbers.


The displacement property of addition

Study techniques:

- **actions with subject sets;**
- **comparison of numerical equalities in which the terms are rearranged;**
- **comparison of the sum of the lengths of the same segments.**

Studying arithmetic operations in the "Hundred"

- **to form knowledge about computational techniques;**
- **to form the ability to apply these techniques when adding and subtracting within 100;**
- **improve the skills of tabular addition and subtraction within 10;**
- **to form skills of tabular addition of numbers within 20;**
- **develop knowledge about the relationship between components and the results of addition and subtraction actions.**



**Adding and subtracting
round tens (two-digit bit
numbers) is reduced to
adding and subtracting
single-digit numbers that
express tens.**

The result of mastering the computational techniques of addition and subtraction within 100 is:

- **knowledge of the bit composition of a two-digit number and the ability to represent it as a sum of bit terms;**
- **knowledge of the properties of arithmetic operations and the skills of tabular addition and subtraction of numbers within 100.**

Properties:

- **adding a number to the amount;**
- **adding a sum to a number;**
- **subtracting a number from the amount;**
- **subtracting the amount from the number;**
- **adding the sum of numbers to the sum of numbers;**
- **subtracting the sum of numbers from the sum of numbers.**

The study of each property is based on the following algorithm:

- **using visual aids, it is necessary to reveal the essence of the property itself;**
- **teaching children to apply the property when performing various educational exercises;**
- **teaching children to find rational methods of calculations, taking into account the characteristics of each specific case.**