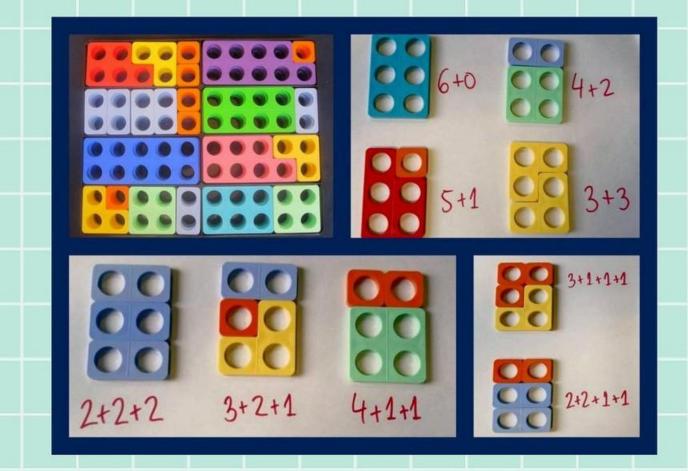
Playful manipulative materials (6-8 years)



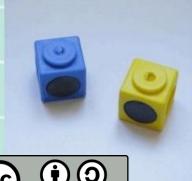
- Colored tweezers to place the first numbers naturals on the number line
- Numeric panels
- Polycubes
 - Montessori cards and rules for the composition and decomposition of
- Numerical material by G. Mialaret
- Children's numerical scale
- Various materials to build the first multiplication tables

(Alsina, A. 2010)















Playful manipulative materials

Games 8-10 years

- Abacuses for understanding the Decimal Numbering System, for make comparisonsGlasses to compose numbers
- Rulers for understanding multiplication: properties and division as distribution
- Concrete materials, rules and circular panels for the first fractions, equivalences
- Freudenthal fraction table for the first operations with fractions
- Dominoes and bingos
- Strips of paper to compare decimals









Playful manipulative materials

Games 8-12 years

- Mirrors for the relationship between operations
- Rulers to work on the distributive property with respect to addition
- Cards of equivalent fractions
- Numerical rules for fractions, to find the divisors of anumber,...
- Geometric figures
- Polycubes and fractions
- Bingos for the relationship between fractions and decimals
- Freudenthal fraction table for the 1st operations with fractions
- Dominoes of fractions, decimals and percentages



6. Self-instruction training



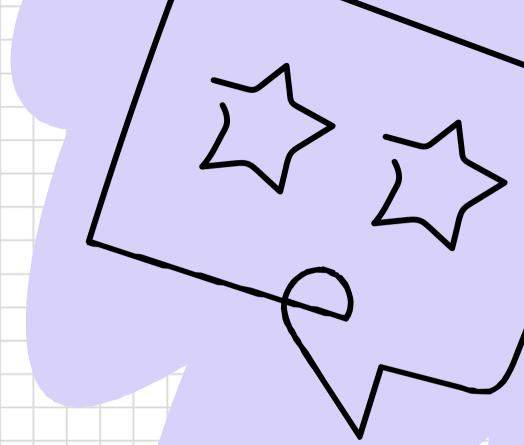


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Self-instruction training

- ÿ Read the problem as many times as necessary to understand it.
- ÿ Reflect, think: What do I have to look for? What are they asking of me?
- ÿ Underline the relevant data in parts
- ÿ Draw or write this data prominently
- ÿ Find the operation that should be used to find the solution.
- ÿ Interpret the data with the corresponding operation
- ÿ Do the operation and review each step. Look back
- ÿ If necessary, use acalculator operation, or tables to ensure that the
- is well performed
- ÿ Write the solution clearly and well written





Thank you for your attentiont



