

## The ``obvious'' math that's hard to explain: A K-12 mathematics pocket companion for teachers and parents

A V. Sadovsky



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### **The ``obvious'' math that's hard to explain: A K-12 mathematics pocket companion for teachers and parents** A V. Sadovsky

This book is about basic mathematical ideas that seem simple until... we try to explain them to children. The explanations are child-friendly, based on correctly selected examples and images from real life. Table of Contents: 1 Addition and subtraction 1.1 Rearrangement of things leaves their total count unchanged 1.2 Commutativity of addition 2 Multiplication and its properties 2.1 Multiplication by fingerpainting 2.2 Multiplication by counting street crossings 2.3 Multiplication as calculation of a rectangle's area 2.4 The Commutative Property is axial symmetry 2.5 The Distributive Property: tiling rectangles 3 Arithmetic with negative numbers 3.1 Addition of numbers positive and negative 3.2 Multiplication with negative numbers: oriented areas 4 Powers with integer exponents are volumes 5 Collecting like terms in a polynomial 5.1 Congruences and volumes 5.2 Collecting like terms: variables alphabetized 5.3 Collecting like terms: a method 6 Composition of functions is cascading of devices 6.1 Functionalities and functions 6.2 Composing Answers to the exercises

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