

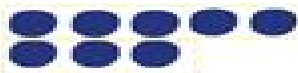

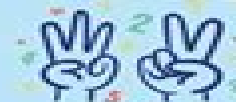


# Development of Early Number Concepts: Ages 3-6

	Counting	Subitizing	Comparing Numbers	Numerals
~3 years old	<p><b>Verbal:</b> To ten</p> <p><b>1:1 Correspondence:</b> groups of 5 or less</p> <p><b>Cardinality:</b> Beginning understanding</p>	<p>Can <b>subitize</b> groups of two or three</p> 	<p>Compares quantities in small groups using the terms <b>more, less, same</b></p>	<p>Differentiates between numerals and letters</p>
~4 years old	<p><b>Verbal:</b> To twenty</p> <p><b>1:1 Correspondence:</b> groups of 10 or less</p> <p><b>Cardinality:</b> Understands for groups of 6 or less</p>	<p>Counts groups of 4-5 by chunking and <b>subitizing</b></p> 	<p><b>Compares groups</b> of 5 or less by using strategies, like 1-1 correspondence</p>	<p>Reads numerals 1-5</p>
~5 years old	<p><b>Verbal:</b> To forty (with some errors in the teens)</p> <p><b>1:1 Correspondence:</b> groups of 15 or less</p> <p><b>Cardinality:</b> Full understanding. Counts out 10 or less objects</p>	<p>When counting a group of of 6-10, chunks and subitizes the 5.</p> 	<p><b>Compares groups</b> of 5 or less by counting and uses the terms <b>more than, less than, same as</b></p>	<p>Reads numerals 1-10 and writes some</p>
~6 years old	<p><b>Verbal:</b> To 100 by ones and tens</p> <p><b>1:1 Correspondence:</b> groups of 25 or less</p> <p><b>Cardinality:</b> Counts to answer <i>How Many?</i> Counts out 20 or less objects</p> <p><b>Counting Strategies:</b> counts on from a given number</p>	<p>When counting a group of of 6-10, chunks and subitizes the 5.</p> 	<p><b>Compares groups and written numerals</b> of 10 or less by counting and uses the terms <b>more than, less than, same as.</b></p>	<p>Reads and writes numerals 1-20</p>



# Counting Concepts

**Arthur Baroody, Arthur J.  
Baroody, Jesse L.M. Wilkins, Ronald T.  
Coslick**

## Counting Concepts:

Children's Counting and Concepts of Number Karen C. Fuson, 2012-12-06 For some time now the study of cognitive development has been far and away the most active discipline within developmental psychology. Although there would be much disagreement as to the exact proportion of papers published in developmental journals that could be considered cognitive, 50% seems like a conservative estimate. Hence a series of scholarly books devoted to work in cognitive development is especially appropriate at this time. The Springer Series in Cognitive Development contains two basic types of books: namely edited collections of original chapters by several authors and original volumes written by one author or a small group of authors. The flagship for the Springer Series is a serial publication of the advances type carrying the subtitle *Progress in Cognitive Development Research*. Volumes in the Progress sequence are strongly thematic in that each is limited to some well defined domain of cognitive developmental research, e.g. logical and mathematical development, semantic development. All Progress volumes are edited collections. Editors of such books, upon consultation with the Series Editor, may elect to have their works published either as contributions to the Progress sequence or as separate volumes. All books written by one author or a small group of authors will be published as separate volumes. Within the series is being used the selection of a fairly broad definition of cognitive development. *Number Concepts* Richard Samuels, Eric Snyder, 2024-02-15 This Element written for researchers and students in philosophy and the behavioral sciences reviews and critically assesses extant work on number concepts in developmental psychology and cognitive science. It has four main aims. First it characterizes the core commitments of mainstream number cognition research including the commitment to representationalism, the hypothesis that there exist certain number specific cognitive systems and the key milestones in the development of number cognition. Second it provides a taxonomy of influential views within mainstream number cognition research along with the central challenges these views face. Third it identifies and critically assesses a series of core philosophical assumptions often adopted by number cognition researchers. Finally the Element articulates and defends a novel version of pluralism about number concepts.

**Counting Concepts Count** Daryl Kuiper, 2015-10-05 This book is an adjunct to the Math Readers series about the Counting Whole Numbers. It is designed for those students who are a bit older or more inquisitive about mathematics. Math Concepts Count continues to reinforce the benefits of self respect, family and education that the author intends to champion.

**The Development of Number Concept in Children of Pre-school and Kindergarten Ages** Harl Roy Douglass, 1925

**Numbers as Cognitive Tools** César Frederico dos Santos, 2025-08-19 This book offers a novel account of the nature of numbers firmly grounded in results from numerical cognition and the philosophy of mathematics. Drawing on empirical data on the human experience of what we call numbers, the author shows that numbers do not exist as abstract objects but that the idea that they do is a useful cognitive tool. Contrary to the Platonist view according to which arithmetic is true of a realm of abstract entities, the nominalistic account presented in this book

shows arithmetic to be true of descriptions of structural properties of techniques such as counting and calculating procedures This book is of interest to both philosophers and cognitive scientists who want to have a deeper understanding of what numbers are

**Fostering Children's Mathematical Power** Arthur Baroody, Arthur J. Baroody, Jesse L.M. Wilkins, Ronald T. Coslick, 1998-09-01 Teachers have the responsibility of helping all of their students construct the disposition and knowledge needed to live successfully in a complex and rapidly changing world To meet the challenges of the 21st century students will especially need mathematical power a positive disposition toward mathematics curiosity and self confidence facility with the processes of mathematical inquiry problem solving reasoning and communicating and well connected mathematical knowledge an understanding of mathematical concepts procedures and formulas This guide seeks to help teachers achieve the capability to foster children s mathematical power the ability to excite them about mathematics help them see that it makes sense and enable them to harness its might for solving everyday and extraordinary problems The investigative approach attempts to foster mathematical power by making mathematics instruction process based understandable or relevant to the everyday life of students Past efforts to reform mathematics instruction have focused on only one or two of these aims whereas the investigative approach accomplishes all three By teaching content in a purposeful context an inquiry based fashion and a meaningful manner this approach promotes children s mathematical learning in an interesting thought provoking and comprehensible way This teaching guide is designed to help teachers appreciate the need for the investigative approach and to provide practical advice on how to make this approach happen in the classroom It not only dispenses information but also serves as a catalyst for exploring conjecturing about discussing and contemplating the teaching and learning of mathematics

*Arithmetic, Elementary School* Denver Public Schools, 1928

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reading comprehension questions may focus on important plot points or character motivations such as why the girl agrees to spin straw into gold for the king or why rumpelstiltskin is so desperate for a child