

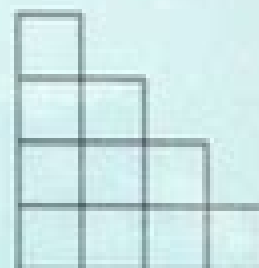
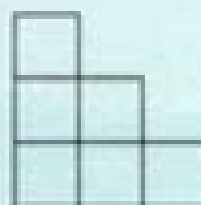
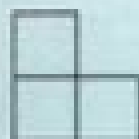
STAIRCASE

You Need

- Thirty [30] cubes

Your Task

1. Staircases are made from cubes like this:



The picture shows Sizes 2, 3 & 4.

2. Copy this table into your journal and enter the data for Sizes 2, 3, 4 & 5.

Number of Steps	1	2	3	4	5	10	100
Number of Cubes	1						

Challenge

Work out the number of cubes in a 10 step and a 100 step staircase.
Can you check it another way?

(Hint: Build two Size 5 staircases and make a rectangle.)

Write a short report with drawings.

Growing Staircase Math Problem Answers

Noah Webster



Growing Staircase Math Problem Answers:

Big Ideas for Growing Mathematicians Ann Kajander, 2007 Presents twenty activities ideal for an elementary classroom each of which is divided into sections that summarize the mathematical concept being taught the skills and knowledge the students will use and gain during the activity and step by step instructions [Modeling Mathematical Ideas](#) Jennifer M. Suh, Padmanabhan Seshaiyer, 2016-12-27 Modeling Mathematical Ideas combining current research and practical strategies to build teachers and students strategic competence in problem solving This must have book supports teachers in understanding learning progressions that addresses conceptual guiding posts as well as students common misconceptions in investigating and discussing important mathematical ideas related to number sense computational fluency algebraic thinking and proportional reasoning In each chapter the authors opens with a rich real world mathematical problem and presents classroom strategies such as visible thinking strategies technology integration and other related problems to develop students strategic competence in modeling mathematical ideas **Solving Math Problems Kids Care about** Randall J. Souviney, 2006 Educational resource for teachers parents and kids *Girls Growing Up on the Autism Spectrum* Shana Nichols, Gina Marie Moravcik, Samara Pulver Tetenbaum, 2009-01-01 Providing professional perspectives alongside personal experiences and suggestions from mothers daughters and educators this is a comprehensive text for parents teachers and professionals working with families and their daughters with ASDs **Authentic Intellectual Work** Fred M. Newmann, Dana L. Carmichael, M. Bruce King, 2015-11-14 Equip teachers to provide value beyond school In spite of numerous reforms to improve rigor and relevance in the classroom our schools have been slow to change Backed by over 20 years of research the Authentic Intellectual Work AIW framework helps school based teams improve the quality of instruction assessment and curriculum for higher and more equitable student learning This work provides A research validated field tested framework that can be applied across grades and disciplines A powerful professional learning component that emphasizes teacher collaboration Detailed examples of lessons assignments assessment tasks and student work *Growing Mathematical Ideas in Kindergarten* Linda Schulman Dacey, Rebeka Eston, 1999 Grade level k t [Bringing the Common Core Math Standards to Life](#) Yvelyne Germain-McCarthy, 2014-04-16 As middle school math teachers shift to the Common Core State Standards the question remains What do the standards actually look like in the classroom This book answers that question by taking you inside of real Common Core classrooms across the country You ll see how exemplary teachers are meeting the new requirements and engaging students in math Through these detailed examples of effective instruction you will uncover how to bring the standards to life in your own classroom Special Features A clear explanation of the big shifts happening in the classroom as a result of the Common Core State Standards Real examples of how exemplary teachers are meeting the CCSS by teaching problem solving for different learning styles proportional reasoning the Pythagorean theorem measurements and more A detailed analysis of each example to help you understand why it is effective and how you can try it

with your own students Practical ready to use tools you can take back to your classroom including unit plans and classroom handouts *Classroom-Ready Rich Algebra Tasks, Grades 6-12* Barbara J. Dougherty, Linda C. Venenciano, 2023-02-25 This book provides educators with 50 mathematical tasks that are rich research based standards aligned and classroom tested The tasks are organized into learning progressions that help all students make the leap from arithmetic to algebra offer students interesting mathematics problems to think about and solve so math is investigative interactive and engaging and present opportunities for educators to connect new content to prior knowledge or an undeveloped concept *Reading and Writing Strategies for the Secondary Mathematics Classroom in a PLC at Work®* Daniel M. Argentar, Katherine A. N. Gillies, Rubenstein Maureen M., Brian R. Wise, 2024-09-10 Students need literacy support to think read and write in every subject including math Part of the Every Teacher Is a Literacy Teacher series this book emphasizes the importance that the PLC at Work process has in supporting learners who struggle with literacy Grades 6 12 teachers will strengthen reading capabilities with practical reading and writing strategies specifically designed for mathematics instruction This book will help secondary math teachers Learn how to incorporate writing instruction into mathematics curriculum and why it s important Collaborate with their colleagues using end of chapter prompts that encourage PLC cooperation Implement immediate intervention strategies for struggling students to shorten learning gaps Strategize their mathematics instruction to effectively address both struggling students and those at proficient levels Implement formative and summative assessments and look at feedback Contents *Studying Virtual Math Teams* Gerry Stahl, 2010-05-03 Studying Virtual Math Teams centers on detailed empirical studies of how students in small online groups make sense of math issues and how they solve problems by making meaning together These studies are woven together with materials that describe the online environment and pedagogical orientation as well as reflections on the theoretical implications of the findings in the studies The nature of group cognition and shared meaning making in collaborative learning is a foundational research issue in CSCL More generally the theme of sense making is a central topic in information science While many authors allude to these topics few have provided this kind of detailed analysis of the mechanisms of intersubjective meaning making This book presents a coherent research agenda that has been pursued by the author and his research group The book opens with descriptions of the project and its methodology as well as situating this research in the past and present context of the CSCL research field The core research team then presents five concrete analyses of group interactions in different phases of the Virtual Math Teams research project These chapters are followed by several studies by international collaborators discussing the group discourse the software affordances and alternative representations of the interaction all using data from the VMT project The concluding chapters address implications for the theory of group cognition and for the methodology of the learning sciences In addition to substantial introductory and concluding chapters this important new book includes analyses based upon the author s previous research thereby providing smooth continuity and an engaging flow that follows the progression of the

research The VMT project has dual goals a to provide a source of experience and data for practical and theoretical explorations of group knowledge building and b to develop an effective online environment and educational service for collaborative learning of mathematics Studying Virtual Math Teams reflects these twin orientations reviewing the intertwined aims and development of a rigorous science of small group cognition and a Web 2.0 educational math service It documents the kinds of interactional methods that small groups use to explore math issues and provides a glimpse into the potential of online interaction to promote productive math discourse *Investigations in Number, Data, and Space*, 2008 Part of a K-5 mathematics curriculum with curriculum units for classroom use and resources for teachers the Investigations curriculum was developed at TERC formerly Technical Education Research Centers *Theoretical Investigations* Gerry Stahl, 2021-04-23 Computers have transformed how we think discuss and learn as individuals in groups within cultures and globally However social media are problematic fostering flaming culture wars and fake news This volume presents an alternative paradigm for computer support of group thinking collaborative learning and joint knowledge construction This requires expanding concepts of cognition to collectivities like collaborative groups of networked students Theoretical Investigations explores the conditions for group cognition supplying a philosophical foundation for new models of pedagogy and methods to analyze group interaction Twenty-five self-contained investigations document progress in research on computer-supported collaborative learning CSCL both in Stahl's own research and during the first decade of the CSCL journal The volume begins with two new reflections on the vision and theory that result from this research Representing both ethnomethodological and social constructivist research paradigms the investigations within this volume comprise a selection of seminal and influential articles and critical commentaries that contribute to an understanding of concepts and themes central to the CSCL field The book elaborates an innovative theory of group cognition and substantiates the pedagogical potential of CSCL Theoretical Investigations Philosophical Foundations of Group Cognition is essential as a graduate text for courses in educational theory instructional design learning and networked technologies The investigations will also appeal to researchers and practitioners in those areas *Making a Difference: Volume I and II* Sasha A. Barab, Kenneth E. Hay, Nancy Butler Songer, Daniel T. Hickey, 2017-09-05 William Wordsworth 1770-1850 needs little introduction as the central figure in Romantic poetry and a crucial influence in the development of poetry generally This broad-ranging survey redefines the variety of his writing by showing how it incorporates contemporary concepts of language difference and the ways in which popular and serious literature were compared and distinguished during this period It discusses many of Wordsworth's later poems comparing his work with that of his regional contemporaries as well as major writers such as Scott The key theme of relationship both between characters within poems and between poet and reader is explored through Wordsworth's construction of community and his use of power relationships A serious discussion of the place of sexual feeling in his writing is also included **Taking Charge** JoAnne Nordling, JoAnne Nordling, 1999 *Essays In Computer-Supported*

Collaborative Learning Gerry Stahl, 2016-01-26 These essays are some of the most important papers co written with my colleagues that supplement the discussion of CSCL research in the published books These chapters take the discussion in specific directions They begin with my general reflections on the importance of CSCL as a research field situating my work on the VMT Project and my theory of group cognition within the field of CSCL They describe the VMT research project including its research approach technology pedagogy and analysis methods Mostly they discuss in some detail the findings that have emerged from the VMT Project about the nature of online interaction in that type of CSCL setting The volume concludes with reports of work in the project and future directions that were underway **Autumn Drawings** Kelli

Huffman, 2019-05-16 Seventeen year old Xo lives by herself having fled for emancipation when she was sixteen in order to escape her parents drug controlled lives A high school junior she faces constant bullying from her classmates even from Beth who is supposedly her friend She works as a waitress after school to support herself Although Xo endures flashbacks to the trauma she experienced at the hands of her parents she wants to believe she has put her troubled childhood behind her But when a figure emerges from the shadows and upends her life she soon discovers that the past is coming back to haunt her in the form of her parents dealer and his teenage son Kit one of Xo s classmates As she struggles with terrible memories she finds a possible ally in Kit even if he is one of the ones holding her captive But only time will tell whether the two of them can escape the violence of their lives and find happiness together In this novella a teenage girl living on her own deals with the consequences of her parents poor choices and finds an unlikely source of hope and happiness in her kidnapper s son An

Introduction to Combinatorial Analysis John Riordan, 2014-07-14 This book introduces combinatorial analysis to the beginning student The author begins with the theory of permutation and combinations and their applications to generating functions In subsequent chapters he presents Bell polynomials the principle of inclusion and exclusion the enumeration of permutations in cyclic representation the theory of distributions partitions compositions trees and linear graphs and the enumeration of restricted permutations Originally published in 1980 The Princeton Legacy Library uses the latest print on demand technology to again make available previously out of print books from the distinguished backlist of Princeton University Press These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905 Mathematical Reviews , 1998

An American Dictionary of the English Language Noah Webster, 1875 The New Balanced Literacy School Margaret Mary Policastro, Becky McTague, 2014-01-01 Create a new approach to balanced literacy grounded in research based best practices This book infuses best practices of the new balanced literacy model through the lens of Common Core with support on read alouds guided reading language and literacy centers word walls to language walls independent reading and writing and classroom libraries It also provides the how for novice and veteran K 8 teachers administrators school literacy teams

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