

Experimental Probability



Section A

Roll a dice 60 times and record the number of '6's scored after every 10 rolls. Record your results in the table below. Leave your answers to two decimal places. Plot your results on the graph and then answer the questions.

Number of Trials	Number of '6's	Experimental probability of scoring '6'	Theoretical probability of scoring '6'
10			
20			
30			
40			
50			
60			



- 1) Were the results from your experiment as you expected? Why? Why not?
- 2) Which is the most reliable estimate of the experimental probability of scoring a '6'?
- 3) How could you get an experimental probability that is closer to the theoretical probability of scoring a '6'?

Section B

The same experiment is conducted using a different dice. The results are recorded in the table. Complete the table leaving answers to two decimal places. Plot the results on the graph and then answer the questions.

Number of Rolls	Number of '6's	Experimental probability of scoring '6'	Theoretical probability of scoring '6'
10	2		
20	16		
30	27		
40	30		
50	42		
60	50		



- 1) What does the horizontal line (in red) represent?
- 2) Is the dice a fair dice? How can you tell from your graph?
- 3) How would the graph compare with the horizontal line (theory line) as the number of trials increase?

Grade 7 Math Experimental Probability

ML Morrison



Grade 7 Math Experimental Probability:

Math, Grade 7 Daughtrey, 2015-12-01 Interactive Notebooks Math for grade 7 is a fun way to teach and reinforce effective note taking for students Students become a part of the learning process with activities about integers proportions expressions and inequalities angle relationships probability and more This book is an essential resource that will guide you through setting up creating and maintaining interactive notebooks for skill retention in the classroom High interest and hands on interactive notebooks effectively engage students in learning new concepts Students are encouraged to personalize interactive notebooks to fit their specific learning needs by creating fun colorful pages for each topic With this note taking process students will learn organization color coding summarizing and other important skills while creating personalized portfolios of their individual learning that they can reference throughout the year Spanning grades kindergarten to grade 8 the Interactive Notebooks series focuses on grade specific math language arts or science skills Aligned to meet current state standards every 96 page book in this series offers lesson plans to keep the process focused Reproducibles are included to create notebook pages on a variety of topics making this series a fun one of a kind learning experience Interactive Math Notebook Resource Book, Grade 7 Schyrlet Cameron, Carolyn Craig, 2020-01-02 GRADE 7 This 64 page math workbook allows students to create their own subject specific resource that can be referenced throughout the year INCLUDES This Interactive Notebook emphasizes the study of mathematics with 28 lessons covering the number system ratios proportions equations geometry statistics and more BENEFITS OF INTERACTIVE NOTEBOOKS Encourages students to become active participants in their own learning by providing an easy to follow plan for setting up creating and maintaining a notebook with essential information Students are encouraged to be creative use color and work with interactive content to gain a greater understanding of the topics covered WHY MARK TWAIN MEDIA Mark Twain Media Publishing Company specializes in providing captivating supplemental books and decorative resources to complement middle and upper grade classrooms Designed by leading educators the product line covers a range of subjects including mathematics sciences language arts social studies history government fine arts and character *SWYK on STAAR Math Gr. 7, Flash Cards* Show What You Know Publishing, 2013-03-01 Each deck of Show What You Know on STAAR Mathematics Flash Cards includes 90 cards The front of each flash card presents a question aligned to one of the TEKS as well as a correlation in the top left corner On the back of each multiple choice question the correct answer is given along with an analysis explaining why each choice is correct or incorrect **Spectrum Critical Thinking for Math, Grade 7** Spectrum, 2017-04-03 Critical Thinking Math Grade 7 Workbook for kids ages 12 Support your child s educational journey with Spectrum s Critical Thinking 7th Grade Math Workbook that teaches critical thinking math skills Critical Thinking Math workbooks are a great way for students to learn critical thinking skills through algebra geometry positive and negative integers and more through a variety of learning activities that are both fun AND educational Why You ll Love This Geometry and Algebra 1 Workbook Engaging and

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Spectrum Test Prep, Grade 7 Spectrum, 2015-01-05 Spectrum Test Prep Grade 7 includes strategy based activities for language arts and math test tips to help answer questions and critical thinking and reasoning The Spectrum Test Prep series for grades 1 to 8 was developed by experts in education and was created to help students improve and strengthen their test taking skills The activities in each book not only feature essential practice in reading math and language arts test areas but also prepare students to take standardized tests Students learn how to follow directions understand different test formats use effective strategies to avoid common mistakes and budget their time wisely Step by step solutions in the answer key are included These comprehensive workbooks are an excellent resource for developing skills for assessment success Spectrum the best selling workbook series is proud to provide quality educational materials that support your students learning achievement and success

CK-12 Middle School Math Grade 7, Volume 2 Of 2 CK-12 Foundation, 2012-02-20 Explores foundational math concepts that will prepare students for Algebra and more advanced subjects Material includes decimals fractions exponents integers percents inequalities and some basic geometry Volume 2 includes the last 6 chapters

Te Math Advantage 98 Gr 6 Vol 1 Harcourt Brace Publishing, 1997-10-10

Mindset Mathematics: Visualizing and Investigating Big Ideas, Grade 7 Jo Boaler, Jen Munson, Cathy Williams, 2019-07-05 Engage students in mathematics using growth mindset techniques The most challenging parts of teaching mathematics are engaging students and helping them understand the connections between mathematics concepts In this volume you'll find a collection of low floor high ceiling tasks that will help you do just that by looking at the big ideas at the seventh grade level through visualization play and investigation During their work with tens of thousands of teachers authors Jo Boaler Jen Munson and Cathy Williams heard the same message that they want to incorporate more brain science into their math instruction but they need guidance in the techniques that work best to get across the concepts they needed to teach So the authors designed Mindset Mathematics around the principle of active student engagement with tasks that reflect the latest

brain science on learning Open creative and visual math tasks have been shown to improve student test scores and more importantly change their relationship with mathematics and start believing in their own potential The tasks in Mindset Mathematics reflect the lessons from brain science that There is no such thing as a math person anyone can learn mathematics to high levels Mistakes struggle and challenge are the most important times for brain growth Speed is unimportant in mathematics Mathematics is a visual and beautiful subject and our brains want to think visually about mathematics With engaging questions open ended tasks and four color visuals that will help kids get excited about mathematics Mindset Mathematics is organized around nine big ideas which emphasize the connections within the Common Core State Standards CCSS and can be used with any current curriculum

Understanding the Math We Teach and How to Teach It, K-8 Small Marian, 2025-08-26 Dr Marian Small has written a landmark book for a wide range of educational settings and audiences from pre service math methods courses to ongoing professional learning for experienced teachers Understanding the Math We Teach and How to Teach It K 8 focuses on the big mathematical ideas in elementary and middle school grade levels and shows how to teach those concepts using a student centered problem solving approach Comprehensive and Readable Dr Small helps all teachers deepen their content knowledge by illustrating core mathematical themes with sample problems clear visuals and plain language Big Focus on Student Thinking The book s tools models and discussion questions are designed to understand student thinking and nudge it forward Particularly popular features include charts listing common student misconceptions and ways to address them a table of suggested manipulatives for each topic and a list of related children s book Implementing Standards That Make Sense By focusing on key mathematics principles Understanding the Math We Teach and How to Teach It K 8 helps to explain the whys of state standards and provides teachers with a deeper understanding of number sense operations algebraic thinking geometry and other critical topics Dr Small a former dean with more than 40 years in the field conceived the book as an essential guide for teachers throughout their career Many teachers who teach at the K 8 level have not had the luxury of specialist training in mathematics yet they are expected to teach an increasingly sophisticated curriculum to an increasingly diverse student population in a climate where there are heightened public expectations They deserve help

Your Mathematics Standards Companion, Grades 6-8 Ruth Harbin Miles, Lois A. Williams, 2017-05-25 Transforming the standards into learning outcomes just got a lot easier In this resource you can see in an instant how teaching to your state standards should look and sound in the classroom Under the premise that math is math the authors provide a Cross Referencing Index for states implementing their own specific mathematics standards allowing you to see and understand which page number to turn to for standards based teaching ideas It s all here page by page Get the inside scoop on which standards connect what key vocabulary means and time saving tables showing where to focus instruction for each grade Write curriculum for ratios and proportional relationships the number system expressions and equations functions geometry and statistics probability Use the What to Teach pages to

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