

MATHCOUNTS® Problem of the Week Archive

Congrats National Winners! – May 11, 2015

Problems & Solutions

Congratulations to all the Mathletes® who participated in the 2015 Raytheon MATHCOUNTS National Competition, especially to the National Champion, Kevin Liu of Indiana and the Written Competition Champion, Andy Xu of South Carolina, as well as their coaches. Here are just a few of the problems they had to solve during last week's competition.

If six people randomly sit down at a table with six chairs, and they do not notice that there are name tags marking assigned seats, what is the probability that exactly three of them will sit in the seat he or she was assigned? Express your answer as a common fraction.

[Sprint #22]

Let's label the six seats A through F as follows:

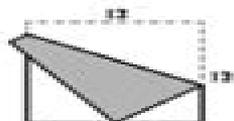
A B C D E F

We are asked to determine the probability that exactly three of the six individuals sit in the correctly assigned seat. There are ${}^6C_3 = 6!/3! \cdot 3! = 20$ ways to choose which three of the six seats are occupied by the correctly assigned individual. Then there are only two ways to arrange the other three individuals so that none of the remaining three seats is occupied by the individual assigned to sit there. For example, if individuals are seated correctly in A, B and C, these are the only two options for the remaining three seats to be filled so that exactly three seats are occupied by the individual assigned to sit there:

A B C F D E
A B C D E F

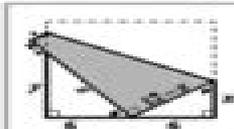
A B C E F D
A B C D E F

That's $20 \times 2 = 40$ total ways for the six people to be arranged in the seats so that exactly three seats are occupied by the individual assigned to sit there. Since there are $6! = 720$ different ways for six people to be seated in six distinctly labeled chairs, that gives us a probability of $40/720 = 1/18$.



One corner of a square of side length 12 units is folded down to meet the midpoint of a side as shown. What is the area of the shaded trapezoid?

[Target #4]



We are asked to find the area of the shaded trapezoid. We know its height is 12 units, the side length of the square, but we need to determine the lengths of the top and bottom bases in order to calculate the area of the trapezoid. As the figure indicates, three right triangles created when the square is folded as described are similar. The right triangle in the lower right corner has sides of length x , $12 - x$ and 6 units. Using the Pythagorean Theorem, we can write an equation that relates these side lengths: $x^2 + 6^2 = (12 - x)^2$.

Solving for x , we get $x^2 + 36 = 144 - 24x + x^2 \rightarrow 24x = 108 \rightarrow x = 4.5$ units. So the hypotenuse of this triangle, which also is the bottom base of the trapezoid, has length $12 - 4.5 = 7.5$ units. You might notice

that this triangle has side lengths that are a multiple of the primitive Pythagorean Triple 3-4-5. That means the similar triangle in the bottom left corner has sides of length 6, $y = 8$ and $z = 10$ units. Since the hypotenuse of this triangle together with the longer leg of the third similar triangle are a side of the square, it follows that this longer leg of the triangle must have length $12 - 10 = 2$ units. Since we know the ratio of the legs of this triangle must be 3:4, we can use the proportion $3/4 = w/2$ to determine that the shorter leg of the third triangle, which also is the top base of the trapezoid, has length $w = 1.5$ units. We now can calculate the area of the trapezoid to be $1/2(1.5 + 7.5)(12) = 63(10) = 54$ units².

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M Mark



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Proofs in Competition Math: Volume 2 Alexander Toller, Freya Edholm, Dennis Chen, 2019-07-10 All too often through common school mathematics students find themselves excelling in school math classes by memorizing formulas but not their applications or the motivation behind them As a consequence understanding derived in this manner is tragically based on little or no proof This is why studying proofs is paramount Proofs help us understand the nature of mathematics and show us the key to appreciating its elegance But even getting past the concern of why should this be true students often face the question of when will I ever need this in life Proofs in Competition Math aims to remedy these issues at a wide range of levels from the fundamentals of competition math all the way to the Olympiad level and beyond Don't worry if you don't know all of the math in this book there will be prerequisites for each skill level giving you a better idea of your current strengths and weaknesses and allowing you to set realistic goals as a math student So mathematical minds we set you off

Content-Based Curriculum for High-Ability Learners Joyce VanTassel-Baska, Catherine A. Little, 2021-09-03 Content Based Curriculum for High Ability Learners 3rd ed provides a solid introduction to core elements of curriculum development in gifted education and implications for school based implementation Written by experts in the field this text uses cutting edge design techniques and aligns core content with national and state standards In addition to revised chapters the third edition contains new chapters on topics including special populations of gifted learners critical thinking leadership and university level honors curriculum The text identifies fundamental principles of curriculum that support advanced and high potential learners accelerated learning within the core content areas use of higher order processes and products and concept development These emphases form threads across chapters in core content areas including language arts mathematics science social studies world languages and the arts Additional chapters explore structures to support implementation including alignment with standards assessment of learning counseling and promoting exemplary teacher practice through professional development

Cases on Informal Learning for Science and Mathematics Education Sun, Li, Lin, Cheng-Yao, 2025-04-17 Many educators face the challenge of engaging students in science and mathematics often struggling to bridge the gap between theoretical concepts taught in classrooms and their real world applications This disconnect can lead to disinterest and disengagement among students hindering their learning outcomes Cases on Informal Learning for Science and Mathematics Education offers a solution to this problem by showcasing how informal learning experiences can significantly enhance students understanding and engagement in these subjects This book demonstrates the potential of informal learning to support and complement formal classroom instruction by presenting a rich collection of case studies It highlights how activities such as cooking budgeting visiting museums and participating in after school math clubs can serve as valuable informal learning experiences that deepen students understanding of science and mathematics concepts The book also addresses the challenge of recognizing the value of informal knowledge in problem solving offering insights and

strategies for educators to help students leverage their informal learning experiences Changing Urban Landscapes Through Public Higher Education Burtin, Anika Spratley, Fleming, Jeffery S., Hampton-Garland, Pamela, 2018-04-06 Outreach and engagement initiatives are crucial in promoting community development This can be achieved through a number of methods including institutions of higher education Changing Urban Landscapes Through Public Higher Education is a critical scholarly resource that examines the unique ways in which the faculty and students of the public institution of higher learning in and for the nation's capital connect to the community Featuring coverage on a broad range of topics such as civic engagement service learning and teacher preparation this book is geared towards educators administration academicians researchers and students seeking current research on collaborative efforts between communities and institutions of higher education **Midwest Engineer**, 1982 Innovation in Education Through Business and Educational STEM Partnerships United States. Congress. House. Committee on Education and Labor, 2008 **Content-Based Curriculum for Advanced Learners** Joyce VanTassel-Baska, Catherine A. Little, 2023-01-23 The fourth edition of *Content Based Curriculum for Advanced Learners* provides readers with a complete and up to date introduction to core elements of curriculum development in gifted education with implications for school based implementation Written by key experts in the field this text is essential to the development of high powered rich and complex curricula that treat content process product and concept development considerations as equal partners in the task of educating gifted learners Along with revised chapters this edition contains new chapters on culturally responsive curriculum the performing arts robotics and engineering design as well as social and emotional learning Additional material concerning talent trajectories across the lifespan accompanies a discussion of honors curriculum in higher education rounding out this comprehensive resource This master text is a must read for educators interested in executing effective curriculum and instructional interventions to support learning for gifted and advanced learners *Signal*, 2015 Mathcounts State Competition Preparation Yongcheng Chen, 2015-02-06 The books Volumes 1 to 5 are based the lecture notes from our 2015 Mathcounts State Competition Training Program We have reviewed the manuscripts carefully and some of our students also helped Please email us at mymathcounts gmail com if you see any typos or mistakes or you have a different solution to any of the problems in the book We really appreciate your help in improving the books This book can be used by 5th to 8th grade students preparing for Mathcounts State and National Competitions Each chapter consists of 1 basic skill and knowledge section with plenty of examples 2 exercise problems and 3 detailed solutions to all problems Volume 3 <http://www.amazon.com/Mathcounts-State-Competition-Preparation-3-dp/1505241383> Volume 4 <http://www.amazon.com/Mathcounts-State-Competition-Preparation-4-dp/1505283493> Volume 5 <http://www.amazon.com/Mathcounts-State-Competition-Preparation-5-dp/1505241413> *Mathcounts State Competition Preparation* Yongcheng Chen, Sam Chen, 2015-04-09 This book can be used by 5th to 8th grade students preparing for Mathcounts State and National Competitions Each chapter consists of 1 basic skill and knowledge section with plenty of

examples 2 exercise problems and 3 detailed solutions to all problems **Mathcounts State Competition Preparation**
Yongcheng Chen, Sam Chen, 2014-12-24 The books Volumes 1 to 5 are based the lecture notes from our 2015 Mathcounts State Competition Training Program We have reviewed the manuscripts carefully and some of our students also helped Please email us at mymathcounts gmail com if you see any typos or mistakes or you have a different solution to any of the problems in the book We really appreciate your help in improving the books This book can be used by 5th to 8th grade students preparing for Mathcounts State and National Competitions Each chapter consists of 1 basic skill and knowledge section with plenty of examples 2 exercise problems and 3 detailed solutions to all problems Volume 2 <http://www.amazon.com/Mathcounts-State-Competition-Preparation-2/dp/1505283671> Volume 3 <http://www.amazon.com/Mathcounts-State-Competition-Preparation-3/dp/1505241383> Volume 4 <http://www.amazon.com/Mathcounts-State-Competition-Preparation-4/dp/1505283493> Volume 5 <http://www.amazon.com/Mathcounts-State-Competition-Preparation-5/dp/1505241413> *Mathcounts State Competition Preparation* Yongcheng Chen, 2015-03-02 This book can be used by 5th to 8th grade students preparing for Mathcounts State and National Competitions Each chapter consists of 1 basic skill and knowledge section with plenty of examples 2 exercise problems and 3 detailed solutions to all problems **The Three-Year MATHCOUNTS Marathon**
Karen Ge, Richard Wilders, 2016-01-06 Written by a MATHCOUNTS state champion this book contains more than 400 carefully selected problems ranging from MathCounts to the International Math Olympiad each with a detailed solution It is intended for advanced MathCounts mathletes coaches and parents Please note that although this book includes many problems from high school math competitions the purpose of the book is not to prepare for those contests Rather these problems are chosen to hone MathCounts problem solving skills because today s high school math problems will appear in tomorrow s MathCounts competitions Math Really Counts William Sun, 2017-10-22 Math Really Counts Volume I provides a fresh perspective on common math competition concepts by emphasizing their real life applications From RSA encryption to burger orders from aerospace research to construction planning it s undeniable that mathematics is the backbone of life as we know it This book helps readers at once develop their problem solving intuition and realize the endless applicability of math Each chapter is structured to best facilitate student understanding concise easy to ingest lecture followed by thorough step by step examples and abounding with challenging problems for students to try Every set of problems is complete with comprehensive solutions This book is written for beginning to intermediate mathletes with some exposure to competition math who want to learn important concepts and problem solving strategies in a real world context Students will learn from the eyes of cyclists florists carpenters conductors and customers as they delve into important concepts in Number Theory Algebra and Combinatorics The first volume contains over 150 original examples and problems organized in the following chapters Prime Numbers and Prime Factorization GCD and LCM Optimization Distance Speed and Time Counting and Probability Answers Solutions To learn more and connect with a budding community of curious mathletes please join us at

<http://MathReallyCounts.org> *American Mathematics Competitions (AMC 8) Preparation (Volume 3)* Jane Chen, Sam Chen, Yongcheng Chen, 2014-10-16 This book can be used by 5th to 8th grade students preparing for AMC 8 Each chapter consists of 1 basic skill and knowledge section with plenty of examples 2 about 30 exercise problems and 3 detailed solutions to all problems Training class is offered <http://www.mymathcounts.com> Copied 2015 Summer AMC 8 Online Training Program php

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