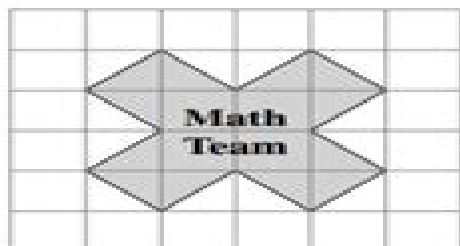


2022 AMC 8 Problems and Solutions

1. The Math Team designed a logo shaped like a multiplication symbol, shown below on a grid of 1-inch squares. What is the area of the logo in square inches?



- (A) 10 (B) 12 (C) 13 (D) 14 (E) 15

Solution. We can apply Pick's Theorem: There are 5 lattice points in the interior and 12 lattice points on the boundary of the figure. As a result, the area is $5 + \frac{12}{2} - 1 = \boxed{\text{(A)} 10}$.

2. Consider these two operations:

$$\begin{aligned}a \spadesuit b &= a^2 - b^2 \\ a \star b &= (a - b)^2\end{aligned}$$

What is the value of $(5 \spadesuit 3) \star 6$?

- (A) -20 (B) 4 (C) 16 (D) 100 (E) 220

Solution. We have

$$\begin{aligned}(5 \spadesuit 3) \star 6 &= (5^2 - 3^2) \star 6 \\ &= 16 \star 6 \\ &= (16 - 6)^2 \\ &= \boxed{\text{(D)} 100}\end{aligned}$$

3. When three positive integers a , b , and c are multiplied together, their product is 100. Suppose $a < b < c$. In how many ways can the numbers be chosen?

- (A) 0 (B) 1 (C) 2 (D) 3 (E) 4

Solution. The positive divisors of 100 are

$$1, 2, 4, 5, 10, 20, 25, 50, 100.$$

It is clear that $10 \leq c \leq 50$, so we apply casework to c :

If $c = 10$, then $(a, b, c) = (2, 5, 10)$. If $c = 20$, then $(a, b, c) = (1, 5, 20)$. If $c = 25$, then $(a, b, c) = (1, 4, 25)$. If $c = 50$, then $(a, b, c) = (1, 2, 50)$. Together, the numbers a , b , and c can be chosen in $\boxed{\text{(E)} 4}$ ways.

Amc 8 Problems And Solutions

Sun, Li,Lin, Cheng-Yao



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The Unofficial 2012 AMC 10A Solution Guide Mathew Crawford, 2014-10-24 Motivated and enlightening solutions to the 2012 AMC 10A by former AMC AHSME two time perfect scorer Mathew Crawford *The Unofficial 2012 AMC 10B Solution Guide* Mathew Crawford, 2014-10-25 Motivated and enlightening solutions to the 2012 AMC 10A by former AMC AHSME two time perfect scorer Mathew Crawford **Conquering the AMC 8** Jai Sharma, Rithwik Nukala, The American Mathematics Competition AMC series is a group of contests that judge students mathematical abilities in the form of a timed test The AMC 8 is the introductory level competition in this series and is taken by tens of thousands of students every year in grades 8 and below Students are given 40 minutes to complete the 25 question test Every right answer receives 1 point and there is no penalty for wrong or missing answers so the maximum possible score is 25 25 While all AMC 8 problems can be solved without any knowledge of trigonometry calculus or more advanced high school mathematics they can be tantalizingly difficult to attempt without much prior experience and can take many years to master because problems often have complex wording and test the knowledge of mathematical concepts that are not covered in the school curriculum This book is meant to teach the skills necessary to solve mostly any problem on the AMC 8 However our goal is to not only teach you how to perfect the AMC 8 but we also want you to learn and understand the topics presented as if you were in a classroom setting Above all the first and foremost goal is for you to have a good time learning math The units that will be covered in this book are the following Test Taking Strategies for the AMC 8 Number Sense in the AMC 8 Number Theory in the AMC 8 Algebra in the AMC 8 Counting and Probability in the AMC 8 Geometry in the AMC 8 Advanced Competition Tricks for the AMC 8 *The Contest Problem Book IX* David Wells, J. Douglas Faires, 2021-02-22 This is the ninth book of problems and solutions from the American Mathematics Competitions AMC contests It chronicles 325 problems from the thirteen AMC 12 contests given in the years between 2001 and 2007 The authors were the joint directors of the AMC 12 and the AMC 10 competitions during that period The problems have all been edited to ensure that they conform to the current style of the AMC 12 competitions Graphs and figures have been redrawn to make them more consistent in form and style and the solutions to the problems have been both edited and supplemented A problem index at the back of the book classifies the problems into subject areas of Algebra Arithmetic Complex Numbers Counting Functions Geometry Graphs Logarithms Logic Number Theory Polynomials Probability Sequences Statistics and Trigonometry A problem that uses a combination of these areas is listed multiple times The problems on these contests are posed by members of the mathematical community in the hope that all secondary school students will have an opportunity to participate in problem solving and an enriching mathematical experience **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

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The Contest Problem Book VIII J. Douglas Faires, David Wells, 2022-02-25 For more than 50 years the Mathematical Association of America has been engaged in the construction and administration of challenging contests for students in American and Canadian high schools The problems for these contests are constructed in the hope that all high school students interested in mathematics will have the opportunity to participate in the contests and will find the experience mathematically enriching These contests are intended for students at all levels from the average student at a typical school who enjoys mathematics to the very best students at the most special school In the year 2000 the Mathematical Association of America initiated the American Mathematics Competitions 10 AMC 10 for students up to grade 10 The Contest Problem Book VIII is the first collection of problems from that competition covering the years 2001-2007 J Douglas Faires and David Wells were the joint directors of the AMC 10 and AMC 12 during that period and have assembled this book of problems and solutions There are 350 problems from the first 14 contests included in this collection A Problem Index at the back of the book classifies the problems into the following major subject areas Algebra and Arithmetic Sequences and Series Triangle Geometry Circle Geometry Quadrilateral Geometry Polygon Geometry Counting Coordinate Geometry Solid Geometry Discrete Probability Statistics Number Theory and Logic The major subject areas are then broken down into subcategories for ease of reference The problems are cross referenced when they represent several subject areas

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

Mathematical Olympiad Challenges Titu Andreescu, Răzvan Gelca, 2000-04-26 A collection of problems put together by coaches of the U S International Mathematical Olympiad Team

AMC 8 Preparation Book Hayk Sedrakyan, Nairi Sedrakyan, 2021 This book consists only of author created problems with author prepared solutions and it is intended as a teacher s manual of mathematics a self study handbook for high school students and mathematical competitors interested in American Mathematics Competitions especially AMC 8 The book teaches

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