

# Open Ended Math Questions

**Sam is making friendship bracelets.**

He wants to use blue and yellow beads. What are some different patterns he can create using 16 blue beads and 9 yellow beads?

**Anna collects stamps and has a collection of 120 stamps.** If she wants to arrange them in equal rows, how many stamps will be in each row? Can you find more than one solution?

**A class of 20 is organizing a charity event.** If each student brings in a donation between \$5 and \$10, what could the total amount be? Provide at least three different possibilities.

**The school is organizing a book fair.** If each book costs \$8 or less and students are given a \$20 budget, how many different combinations of books can they buy? Provide at least three different possibilities.

# Open Ended High School Math Questions

**Ian Pickup**



## **Open Ended High School Math Questions:**

*Assessment in Middle and High School Mathematics* Daniel J. Brahier, 2001 First Published in 2001 Routledge is an imprint of Taylor Francis an informa company      *Resources in Education* ,1990-04      **Activities for Junior High School and Middle School Mathematics** Kenneth E. Easterday, Loren L. Henry, F. Morgan Simpson, 1981 Activities are one means of connecting both the various strands of mathematics with one another and mathematics with other disciplines This compilation of articles from NCTM journals includes strands on problem solving reasoning number relationships statistics and more      **Mathematical Mindsets** Jo Boaler, 2015-10-12 Banish math anxiety and give students of all ages a clear roadmap to success Mathematical Mindsets provides practical strategies and activities to help teachers and parents show all children even those who are convinced that they are bad at math that they can enjoy and succeed in math Jo Boaler Stanford researcher professor of math education and expert on math learning has studied why students don't like math and often fail in math classes She's followed thousands of students through middle and high schools to study how they learn and to find the most effective ways to unleash the math potential in all students There is a clear gap between what research has shown to work in teaching math and what happens in schools and at home This book bridges that gap by turning research findings into practical activities and advice Boaler translates Carol Dweck's concept of mindset into math teaching and parenting strategies showing how students can go from self doubt to strong self confidence which is so important to math learning Boaler reveals the steps that must be taken by schools and parents to improve math education for all Mathematical Mindsets Explains how the brain processes mathematics learning Reveals how to turn mistakes and struggles into valuable learning experiences Provides examples of rich mathematical activities to replace rote learning Explains ways to give students a positive math mindset Gives examples of how assessment and grading policies need to change to support real understanding Scores of students hate and fear math so they end up leaving school without an understanding of basic mathematical concepts Their evasion and departure hinders math related pathways and STEM career opportunities Research has shown very clear methods to change this phenomena but the information has been confined to research journals until now Mathematical Mindsets provides a proven practical roadmap to mathematics success for any student at any age

**Teaching Secondary and Middle School Mathematics** Daniel J. Brahier, 2009 In this extensively revised third edition of Teaching Secondary and Middle School Mathematics scholar and classroom teacher Daniel Brahier presents concise current and meaningful descriptions of what it takes to be an effective teacher of mathematics With up to date research classroom tested teaching ideas and a vibrant writing style this book provides essential information on curriculum teaching and assessment issues related to middle secondary mathematics Every chapter includes a contextualizing introduction scenarios and dialogues for student reflection recommended resources for further study and closing activities and discussion questions to cement chapter concepts Jacket      **Upgrading High School Math** Paula A. White, 1996      **Resources in**

**Education** ,1997     The Virginia Mathematics Teacher ,2002     **Tests** Richard C. Sweetland,1991 Provides descriptive information on some 3 200 tests for the benefit of test evaluators and others who need to determine if a test suits their purposes Each entry includes test name and author an indication of the population for which the test is intended how the test is administered major features of the test how the test is timed and scored pricing and availability information and publisher and distributor Cross referenced and indexed eight ways Distributed by Gale Research Annotation copyrighted by Book News Inc Portland OR     **Curriculum-based Mathematics Assessment** Caren Holtzman,1990     **The Mathematics Educator** ,2009     **Teaching Children Mathematics** ,2004     *Urgent Message* Anne Chambers Lewis,Anne T. Henderson,1997

This report contends that the school reform movement seemingly well constructed from a distance is failing to change in a significant way what and how students learn This is because it lacks a solid foundation built from the ground up and an informed and active school community including parents Using case studies the report examines various reform strategies and presents ways to include parents in change The key ways parents and families are engaged in school reform are 1 pushing the system e g pressing for higher standards and an effective system of accountability insisting on high quality public schools and creating alternative public schools if the local schools fail 2 helping design local school improvement e g sitting on school improvement committees monitoring results and checking student work to ensure it reflects both high standards and high performance and 3 taking part in the parent involvement opportunities created by the reforms e g participating in school governance councils that set policy helping more parents to become actively engaged in the school and attending staff development sessions Appendices include research and reference material and a table of parent involvement provisions RJM     Current Index to Journals in Education ,1999-10     Journal of Computing in Teacher Education ,2002     **Bulletin to the Schools** ,1976 Issues for 1975 v 61 include the Annual report of the New York State Education Department previously issued as a separate title call no 370 9747 N48r     Teaching Today's Mathematics in the Middle Grades Art Johnson,Kit Norris,2006 Teaching Today s Mathematics in the Middle Grades provides current and future middle school teachers with the mathematics content essential concepts methodology activities and resources to both learn and teach mathematics in grades 5 to 8 The authors focus exclusively on the middle school learner and the middle school mathematics curriculum Although each chapter discusses foundational mathematics concepts from earlier grades and previews topics that will follow the middle grades the emphasis is on the middle school This selective focus allows for proper development of critical topics in the middle school such as proportionality algebraic thinking and the integral role of manipulatives Assessment practices and problem solving are also emphasized from the viewpoint of effective practices for middle school students Unique Features React and Reflect features prompt classroom discussions by asking the reader to think independently regarding a statement issue or concern Try This features ask the reader to solve a problem first or extend the current discussion by working on an extension of a problem By completing the problem first teachers are putting

themselves in the place of their students helping the teacher discover first hand common misconceptions Numerous exercises and activities appear at the end of each chapter to reinforce student understanding of various topics and ensure mastery of the mathematics content The NCTM Principles and Standards are emphasized throughout the book beginning with a discussion in Chapter 1 Each of the content chapters 6 11 opens with the relevant NCTM content standards for that chapter In addition marginal icons highlight areas within the text in which the NCTM process standards are discussed Reviewers rave From the content organization and approach it is evident that the authors have years of teaching experience This gives the text authority Marina Krause California State University Long BeachThe authors do an excellent job of presenting in sequential order essential concepts methodology activities and technological resources essential to assist the beginning math teacher in preparing to teach in the middle school program Gerald Jarmon North Carolina Central University

<u>Black Issues in Higher Education</u> ,2002-06	<i>The Praeger Handbook of American High Schools</i> Kathryn M.
Borman,Spencer Cahill,Bridget A. Cotner,2007	<u>Press Summary - Illinois Information Service</u> Illinois Information
Service,2004-01-02	

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