

## Grade 12 tasks:

Grade 12 learners must complete 7 formal assessment tasks.

Term 1: an assignment, a project or investigation and a test = **3 SBA tasks**

Term 2: a test and the midyear examination = **2 SBA tasks**

Term 3: a test and a midyear examination = **2 SBA tasks**

These exemplars will not deal with the two examinations as we are still waiting for the national examination guidelines. The test for each term may be compiled from the topical assignments.

## Term 1

## Topical Assignments

## Topic 1; Sequences and series

## Question 1

- 1.1 Consider the sequence:  $6; 10; 16; 24; 34; \dots$
- 1.1.1 If the sequence behaves consistently, determine the next two terms of the sequence. (2)
- 1.1.2 Calculate a formula for the  $n^{\text{th}}$  term of the sequence. (5)
- 1.1.3 Use your formula to calculate  $n$  if the  $n^{\text{th}}$  term in the sequence is 1264. (3)
- 1.2 Consider the following sequence:  $6; 18; 54; 162; \dots$
- 1.2.1 If the formula for the general term of the sequence is  $T_n = ar^{n-1}$ , give the value of  $a$  and  $r$ . (2)
- 1.2.2 Which term of the sequence is equal to 1458? (4)
- Given the geometric series:  $5 \cdot (3)^0 + 5 \cdot (3)^1 + 5 \cdot (3)^2 + \dots$
- 1.3.1 Explain why the series converges. (2)
- 1.3.2 Calculate the sum to infinity of the series. (3)
- 1.3.3 Calculate the sum of the first 9 terms of the series, correct to **TWO** decimal places. (4)
- 1.3.4 Use your answers to QUESTION 1.3.2 and QUESTION 1.3.3 to determine  $\sum_{n=0}^{\infty} 5 \cdot (3)^{n-2}$  (correct to **TWO** decimal places) (2)

# Grade 12 Mathematics National Assignment

**United States. Congress. Senate.  
Committee on the Budget**



## **Grade 12 Mathematics National Assignment:**

Education, International Affairs and Social Security Task Forces of the Committee on the Budget, United States Senate, One Hundred Fifth Congress, First Session, October 28, 1997--The State of American Education; November 6, 1997--Federal Pre-kindergarten Through Twelve Grade Education Programs; October 30, 1997--International Affairs Funding--150 Account; November 20, 1997--Financing Social Security in the 21st Century United States. Congress. Senate. Committee on the Budget,1998

**Classroom-Ready Rich Math Tasks, Grades K-1** Beth McCord Kobett, Francis (Skip) Fennell, Karen S. Karp, Delise Andrews, Latrenda Knighten, Jeff Shih, 2021-04-12 Detailed plans for helping elementary students experience deep mathematical learning Do you work tirelessly to make your math lessons meaningful challenging accessible and engaging Do you spend hours you don't have searching for adapting and creating tasks to provide rich experiences for your students that supplement your mathematics curriculum Help has arrived Classroom Ready Rich Math Tasks for Grades K 1 details 56 research and standards aligned high cognitive demand tasks that will have your students doing deep problem based learning These ready to implement engaging tasks connect skills concepts and practices while encouraging students to reason problem solve discuss explore multiple solution pathways connect multiple representations and justify their thinking They help students monitor their own thinking and connect the mathematics they know to new situations In other words these tasks allow students to truly do mathematics Written with a strengths based lens and an attentiveness to all students this guide includes Complete task based lessons referencing mathematics standards and practices vocabulary and materials Downloadable planning tools student resource pages and thoughtful questions and formative assessment prompts Guidance on preparing launching facilitating and reflecting on each task Notes on access and equity focusing on students strengths productive struggle and distance or alternative learning environments With concluding guidance on adapting or creating additional rich tasks for your students this guide will help you give all of your students the deepest most enriching and engaging mathematics learning experience possible

**Resources in Education**, 1997 **State Indicators of Science and Mathematics Education**, 1990 *Proactive Mathematics Interventions, Grades 2-5* Karen S. Karp, Francis (Skip) Fennell, Beth McCord Kobett, Delise R. Andrews, Jennifer Suh, Latrenda Knighten, 2025-09-23 Shifting from remediation to preparation so all students can thrive in mathematics Traditional math interventions often focus on remediation addressing gaps only after students have fallen behind Proactive Mathematics Interventions Grades 2 5 Priming for Success Through Engaging Tasks and Purposeful Design presents a game changing approach that shifts the focus from fixing kids to fixing systems Designed with a strengths based perspective this resource equips educators to prime students for success by preparing them with the foundational skills and confidence needed for grade level success and beyond Grounded in the latest research the book tackles critical challenges such as systemic inequities math anxiety and gaps in student readiness By integrating formative assessment asset based strategies and practical intervention tasks this comprehensive guide supports

teachers math coaches interventionists and school leaders to create proactive systems that meet every learner where they are  
 at Packed with 40 adaptable tasks more than 100 printable instructional resources and actionable strategies this guide  
 Provides a strength based intervention model to help uncover and build on students existing strengths to cultivate their  
 mathematical confidence Gives step by step guidance on creating a proactive intervention system from collaborative planning  
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 critical mathematical topics Offers voices from the field with real life success stories from educators implementing proactive  
 strategies in their classrooms their intervention sessions and their tutoring sessions Start transforming your approach to  
 intervention today to make a lasting impact on your student s mathematical successes and identities This is a must have tool  
 for educators committed to addressing inequities and redefining intervention this book ensures every student can be a  
 confident capable doer of mathematics Teacher quality a report on the preparation and qualifications of public school  
 teachers Laurie Lewis,1999 **Number & Operations - Task Sheets Gr. PK-2** Nat Reed,2009-09-01 Number Operations  
 serve as a stepping stone for young learners to start building their understanding of basic mathematics Our resource  
 provides task and word problems surrounding real life scenarios Count the number of balls in gym class Use a calculator to  
 practice your adding Add up all the change you and your friends have altogether Find out if the number of pails is odd or  
 even Find the shape that shows the fraction  $\frac{1}{3}$  Write down all the facts that add up to 9 Counting down find the number that  
 comes next Show your work when taking away 6 stuffed animals from your collection The task sheets provide a leveled  
 approach to learning starting with prekindergarten and increasing in difficulty to grade 2 Aligned to your State Standards  
 and meeting the concepts addressed by the NCTM standards reproducible task sheets drill sheets review and answer key are  
 included NSTA Guide to Planning School Science Facilities LaMoine L. Motz,James T. Biehle,Sandra S. West,2007 NSTA  
 Guide to Planning School Science Facilities will help science teachers district coordinators school administrators boards of  
 education and schoolhouse architects understand differences and develop science facilities that will serve students for years  
 to come **Writing in the Content Areas, Grade 6** Garth Sundem,2006-07-26 Provides techniques lessons plans and  
 ready to use assignments to help integrate the traits of good writing into all areas of the curriculum *Transnational and  
 Borderland Studies in Mathematics Education* Richard S. Kitchen,Marta Civil,2012-08-06 Every year significant numbers of  
 immigrant children from Mexico enter classrooms in the United States These immigrants comprise a heterogeneous group of  
 students with diverse needs abilities and experiences Transnational and Borderland Studies in Mathematics Education is the  
 first collection to offer research studies across these communities Providing invaluable research on both sending and  
 receiving communities in Mexico and the US this collection considers the multiple aspects of children s experiences with  
 mathematics including curriculum classroom participation structures mathematical reasoning and discourse both in and out  
 of school and parents perceptions and beliefs about mathematics instruction An important treatment of an insufficiently

documented subject this collection brings together researchers on both sides of the border to foster and support an interest in documenting evidence that will set the stage for future studies in mathematics education

**Charters, Vouchers and Public Education** Paul E. Peterson, David E. Campbell, 2004-05-13 This volume brings together the most current empirical research on two important innovations reshaping American education today voucher programs and charter schools

Contributors include the foremost analysts in education policy Of specific significance is cutting edge research that evaluates the impact of vouchers on academic performance in the New York City Washington D C and Dayton Ohio school systems The volume also looks beyond the American experience to consider the impact of market based education as pioneered by New Zealand Contributors also take stock of the movement's effects on public schools in particular and public opinion at large With thorough summaries of the existing research and the legal issues facing school choice Charters Vouchers and Public Education will be key to readers who want to stay current with the burgeoning debates on vouchers and charter schools Contributors include Terry Moe Stanford University and the Hoover Institution Gregg Vanourek Yale University Chester E Finn Jr Manhattan Institute and the Fordham Foundation Bruno V Manno Annie E Casey Foundation Michael Mintrom and David Plank Michigan State University Helen Ladd Duke University Edward Fiske former New York Times columnist Jay P Greene Manhattan Institute William G Howell University of Wisconsin Madison Patrick J Wolf Georgetown University and the Brookings Institution Mark Schneider Paul Teske Sara Clark and S P Buckley SUNY Stony Brook Robert Maranto Villanova University Frederick Hess University of Virginia Scott Milliman James Madison University Brett Kleitz University of Houston Kristin Thalhammer St Olaf College Joseph Viteritti New York University Paul Hill University of Washington and Brookings Institution and Diane Ravitch New York University and Brookings Institution [The NAEP ... Technical Report](#) ,1999

**Equity In Mathematics Education** Gabriele Kaiser, 2005-08-08 This text provides a critical overview of current thinking about equity issues in the teaching and learning of mathematics Grounded in feminist theories of curriculum change and a broad range of cultural perspectives the new approaches described here go beyond special programmes and experimental treatments designed to correct perceived problems and deficits Instead they establish how improved instructional practices and a fuller understanding of the nature of the mathematical enterprise can overcome the systemic obstacles that have thwarted women's participation in this important field This book will appeal to all those who are interested in the mathematical education of women including teachers parents administrators and researchers

*Congressional Record* United States. Congress, 1998 The Congressional Record is the official record of the proceedings and debates of the United States Congress It is published daily when Congress is in session The Congressional Record began publication in 1873 Debates for sessions prior to 1873 are recorded in The Debates and Proceedings in the Congress of the United States 1789 1824 the Register of Debates in Congress 1824 1837 and the Congressional Globe 1833 1873

**Final Report of the Task Force on Student Achievement in Iowa** Iowa. Task Force on Student Achievement, 1979 Survey of student achievement in

intellectual or academic achievement personal development career or vocational preparation and civic preparation      **The Link** ,1997      **Mathematics Assessment and Evaluation** Thomas A. Romberg,1992-07-01 Are current testing practices consistent with the goals of the reform movement in school mathematics If not what are the alternatives How can authentic performance in mathematics be assessed These and similar questions about tests and their uses have forced those advocating change to examine the way in which mathematical performance data is gathered and used in American schools This book provides recent views on the issues surrounding mathematics tests such as the need for valid performance data the implications of the Curriculum and Evaluation Standards for School Mathematics for test development the identification of valid items and tests in terms of the Standards the procedures now being used to construct a sample of state assessment tests gender differences in test taking and methods of reporting student achievement      IJER Vol 1-N2 International Journal of Educational Reform,1992-04-01 The mission of the International Journal of Educational Reform IJER is to keep readers up to date with worldwide developments in education reform by providing scholarly information and practical analysis from recognized international authorities As the only peer reviewed scholarly publication that combines authors voices without regard for the political affiliations perspectives or research methodologies IJER provides readers with a balanced view of all sides of the political and educational mainstream To this end IJER includes but is not limited to inquiry based and opinion pieces on developments in such areas as policy administration curriculum instruction law and research IJER should thus be of interest to professional educators with decision making roles and policymakers at all levels turn since it provides a broad based conversation between and among policymakers practitioners and academicians about reform goals objectives and methods for success throughout the world Readers can call on IJER to learn from an international group of reform implementers by discovering what they can do that has actually worked IJER can also help readers to understand the pitfalls of current reforms in order to avoid making similar mistakes Finally it is the mission of IJER to help readers to learn about key issues in school reform from movers and shakers who help to study and shape the power base directing educational reform in the U S and the world      **Status and Trends in the Education of Racial and Ethnic Groups (2010)** Susan Aud,2011-08      **Education, International Affairs, and Social Security Task Forces of the Committee on the Budget, United States Senate, One Hundred Fifth Congress, Second Session** United States. Congress. Senate. Committee on the Budget. Education Task Force,1998

## Whispering the Strategies of Language: An Psychological Quest through **Grade 12 Mathematics National Assignment**

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