

**GRADE 9 MATHEMATICS
NOVEMBER EXAMINATION PAPER 1**

QUESTION 1

Choose and write the correct letter on your answer sheet.

1.1 The constant value in the expression $2x^2 + 3x + 2$ is _____ (3)

- A 3
B 2
C 4
D 5

1.2 How many terms are in the expression $2x^2 + 3x + 2$? _____ (3)

- A 1
B 2
C 3
D 4

1.3 Determine the following two terms in the sequence: _____ (3)

- A 48; 56
B 48; 57
C 47; 56
D 47; 57

1.4 Prime numbers that lie between 8 and 23: _____ (3)

- A 11, 13, 17, 19, 23
B 11, 17, 19, 23
C 11, 13, 17, 19
D 11, 17, 19, 23

1.5 $\sqrt{324}$ is _____ (3)

- A 18
B 74
C 18 and 74
D 18

1.6 If $x = 2$, the value of $3x^2 + 4x$ would be: _____ (3)

- A 14
B 16
C 18
D 20

6 x 1 = 6

QUESTION 2: WHOLE NUMBERS & INTEGERS

2.1 Write 345:15 in it's simplest form. _____ (2)

2.2 If 10 contractors can build a house in 10 days. How many contractors, working at the same rate, will be needed to build the house in 4 days? _____ (3)

2.3 John drove 620km in 5 and a half hours. Calculate his average speed in km/h. _____ (3)

2.4 Write the number 48 as a product of its prime factors. Write the prime factors in exponential form. _____ (4)

2.5 Calculate the following:

- 2.5.1 $2 \times 10^3 + 3 \times 10^2 + 4 \times 10^1$ _____ (3)
2.5.2 $2 \times 10^3 + 3 \times 10^2 + 4 \times 10^1$ _____ (3)

[16]

QUESTION 3: EXPONENTS

3.1 $5^2 \times \sqrt{5} + 5^2$ _____ (2)

3.2 $5^2 \times 5^3$ _____ (2)

3.3 $\frac{5^2}{5^3}$ _____ (3)

3.4 $\sqrt{5^2 \times 5^3}$ _____ (3)

[10]

Grade 9 Math 2014 November Exams

Arlo Kempf



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Distance Learning Michael Simonson, Charles Schlosser, John G. Flores, 2016-06-01 Distance Learning is for leaders practitioners and decision makers in the fields of distance learning e learning telecommunications and related areas It is a professional journal with applicable information for those involved with providing instruction to all kinds of learners of all ages using telecommunications technologies of all types Stories are written by practitioners for practitioners with the intent of providing usable information and ideas Articles are accepted from authors new and experienced with interesting and important information about the effective practice of distance teaching and learning Distance Learning is published quarterly Each issue includes eight to ten articles and three to four columns including the highly regarded And Finally column covering recent important issues in the field and written by Distance Learning editor Michael Simonson Articles are written by practitioners from various countries and locations nationally and internationally Distance Learning is an official publication of the United States Distance Learning Association and is co sponsored by the Fischler School of Education at Nova Southeastern University and Information Age Publishing

Common Sense Education Ernest J. Zarra III, 2016-08-16 The 2015 passage of the Every Student Succeeds Act ESSA has again changed education for public schools and communities Common Core is now optional and the role of Secretary of Education has been limited by no longer incentivizing states as done under Common Core This book analyzes the new direction today's schools must pursue for student learning and their success beyond high school States and local educational agencies are once again empowered and will have more authority over curriculum and assessment Common Sense Education includes samples from these states ideas from several universities which are retooling their teacher education programs and focusing on teacher excellence as well as schools recalibrating their programs for student learning This book advocates for common sense education uses a national survey to provide parent and teacher perspectives and suggests a new paradigm for exciting twenty first century high schools

Competence Assessment in Education Detlev Leutner, Jens Fleischer, Juliane Grünkorn, Eckhard Klieme, 2017-03-27 This book addresses challenges in the theoretically and empirically adequate assessment of competencies in educational settings It presents the scientific projects of the priority program Competence Models for Assessing Individual Learning Outcomes and Evaluating Educational Processes which focused on competence assessment across disciplines in Germany The six year program coordinated 30 research projects involving experts from the fields of psychology educational science and subject specific didactics The main reference point for all projects is the concept of competencies which are defined as context specific cognitive dispositions that are acquired and needed to successfully cope with certain situations or tasks in specific domains Koeppen et al 2008 p 62 The projects investigate different aspects of competence assessment The primary focus lies on the development of cognitive models of competencies complemented by the construction of psychometric models based on these theoretical models In turn the psychometric models constitute the basis for the construction of

instruments for effectively measuring competencies The assessment of competencies plays a key role in optimizing educational processes and improving the effectiveness of educational systems This book contributes to this challenging endeavor by meeting the need for more integrative interdisciplinary research on the structure levels and development of competencies Timothy D. Kanold, Matthew R. Larson, 2015-03-11 Focus your curriculum to heighten student achievement Learn 10 high leverage team actions for mathematics instruction and assessment Discover the actions your team should take before a unit of instruction begins as well as the actions and formative assessments that should occur during instruction Examine how to most effectively reflect on assessment results and prepare for the next unit of instruction The Robot Factory Joseph Ganem, 2018-08-27 This book exposes a disturbing misuse of the scientific method to advance policies and agendas that are in fact detrimental to both science and education The author a physics professor examines two related trends in education the practice of data driven reform and the disparaging of the traditional liberal arts in favor of programs with a heavy emphasis on science and technology Many of the reforms being foisted on educators have more in common with pseudo science than real science The reduction of education to a commodity and the shilling of science as a means to enhance corporate profits lead to an impoverished and stunted understanding of science in particular and of education in general How is it possible for schools with all students learning at grade level to be rated as failing teachers to be rated as ineffective after all their students meet their learning outcomes rising grade school math standards to result in more college students needing remedial math politicians to disparage scientists and their results but argue that more students should study science These bizarre outcomes have happened and are the result of an education system that misuses and misrepresents math and science in the classroom and in crafting education policies This book exposes the flawed and fallacious thinking that is damaging education at all levels throughout the United States and makes a compelling case for rethinking the standardized optimized and quantified approaches in vogue in education today to accommodate the different needs of individual teachers and students Yesterday, Today, and Tomorrow Roslyn Arlin Mickelson, Stephen Samuel Smith, Amy Hawn Nelson, 2017-11-14 Yesterday Today and Tomorrow provides a compelling analysis of the forces and choices that have shaped the trend toward the resegregation of public schools By assembling a wide range of contributors historians sociologists economists and education scholars the editors provide a comprehensive view of a community's experience with desegregation and economic development Here we see resegregation through the lens of Charlotte North Carolina once a national model of successful desegregation and home of the landmark Swann desegregation case which gave rise to school busing This book recounts the last forty years of Charlotte's desegregation and resegregation putting education reform in political and economic context Within a decade of the Swann case the district had developed one of the nation's most successful desegregation plans measured by racial balance and improved academic outcomes for both black and white students However beginning in the 1990s this plan was gradually dismantled Today the level of resegregation in Charlotte

has almost returned to what it was prior to 1971 At the core of Charlotte s story is the relationship between social structure and human agency with an emphasis on how yesterday s decisions and actions define today s choices **The Wiley**

International Handbook of Educational Foundations Alan S. Canestrari, Bruce A. Marlowe, 2018-11-20 Promotes a model of critique for teachers scholars and policy makers to challenge established educational practice in a global context The Wiley International Handbook of Educational Foundations features international scholars uniquely qualified to examine issues specific to their regions of the world The Handbook provides readers with an alternative to the traditional texts in the foundations of education by taking aim at the status quo and by offering frameworks from which teachers and scholars of education can critically evaluate schools and schooling Throughout the essays are grounded in a broad historical context and the authors use an international lens to examine current controversies in order to provoke the kinds of discussion crucial for developing a critical stance The Handbook is presented in six parts each beginning with an Introduction to the subject The sections featured are Part I Challenging Foundational Histories and Narratives of Achievement Part II Challenging Notions of Normalcy and Dominion Part III Challenging the Profession Part IV Challenging the Curriculum Part V Challenging the Idea of Schooling and Part VI Challenging Injustice Inequity and Enmity The Wiley International Handbook of Educational Foundations offers unique insight into subjects such as Educational reform in India Pakistan and China The global implications of equity driven education Teacher education and inclusionary practices The Global Educational Reform Movement G E R M Education and the arts Maria Montessori and Loris Malaguzzi Legal education in authoritarian Syria The Wiley International Handbook of Educational Foundations is an important book for current and aspiring educators scholars and policy makers United States of America Congressional Record, Proceedings and Debates of the 113th Congress

Second Session Volume 160 - Part 1 , **Cultivating Knowledge** Scott Tunison, 2016-07-27 Over the last decade or two there has been increasing consensus that academic research if used judiciously to guide practice improves both educational policy and pedagogy ultimately leading to better outcomes for students Yet despite this potential there remains a deep ravine between the body of knowledge built through research especially at the intersection between specific interventions and improved student achievement and the actions taken by policy makers administrators and classroom teachers in their regular practice There are myriad reasons for this research practice divide Among them is that it is difficult for district based people to access primary research Furthermore multiple waves of well intentioned research based but largely unsuccessful school reform efforts have resulted in skepticism among practitioners about research and at the same time damaged researchers credibility in the field This book is divided into three broad areas First it develops an engaging analysis of the root causes for the research practice gap in education Second it describes the framework developed and used in a public school district by the author to address the root causes and provides evidence of its efficacy to facilitate greater incorporation of research into school and district level practice Through a process the author calls Knowledge Cultivation the framework uses weekly

research summaries for district leaders that are relevant to their real time issues along with suggestions about ways in which the research might be useful The final section of the book includes the actual research summaries used by the author over a five year period *The Pedagogy of Standardized Testing* Arlo Kempf, 2016-04-29 Based on a large scale international study of teachers in Los Angeles Chicago Ontario and New York this book illustrates the ways increased use of high stakes standardized testing is fundamentally changing education in the US and Canada with a negative overall impact on the way teachers teach and students learn Standardized testing makes understanding students strengths and weaknesses more difficult and class time spent on testing consumes scarce time and attention needed to support the success of all students further disadvantaging ELLs students with exceptionalities low income and racially minoritized students

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