

**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 $2x^2 + 3x - 5$ is _____ (3)

- A 5
B -5
C 3
D -3

1.2 How many terms are in the expression $3x^2 + 2x - 5$? _____ (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; -56
C -48; 56
D 48; 56

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

- A 11, 13, 17, 19, 23
B 11, 13, 17, 19
C 11, 13, 17, 19, 23
D 11, 13, 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 10
B 14
C 16
D 18

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 $3 \times 10^3 + 4 \times 10^2 + 5 \times 10^1$ _____ (3)
2.5.2 $3 \times 10^3 + 4 \times 10^2 + 5 \times 10^1$ _____ (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 Nine 2014 November Exams Mathematics

John O'Leary



Grade Nine 2014 November Exams Mathematics:

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. The Times Good University Guide 2014: Where to go and what to study John O'Leary, 2013-11-07 The Times Good University Guide is an essential tool that gives you all the information you need to make the crucial decision of where to study and how to make the crucial financial decisions about going to University. bestselling objective and authoritative. Note depending on your device tables may view best in landscape mode. 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. **Unique World Records 2014** Unique World Records Limited, 2014-08-24 Unique World Records 2014 Edition. Launched by Chief Guest Shri Sarup Chand Singla, Chief Parliamentary Secretary and MLA Bathinda, Punjab and Initiative of 1 CRORE TREE Plantation taken. First TREE planted by Chief Guest World Record Holders from all over the world. HONOURED at Bathinda with Medals, Trophies, World Record Certificates. Live Performance to break make World Records done. Certificates honoured to people for taking part in TREE PLANTATION on the occasion at Hotel Bahia Fort Bathinda, Punjab on 24th August 2014. **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

Research for Educational Change Jill Adler, Anna Sfard, 2016-06-17 Research for Educational Change presents ways in which educational research can fulfil its commitments to educational practice Focussing its discussion within the context of mathematics education it argues that while research generated insights can have beneficial effects on learning and teaching the question of how these effects are to be generated and sustained is far from evident The question of how to turn research into educational improvement is discussed here in the context of learning and teaching hindered by poverty and social injustice In the first part of the book four teams of researchers use different methodologies while analysing the same corpus of data collected in a South African mathematics classroom In the second part each of these teams makes a specific proposal about what can be done and how so that its research generated insights have a tangible beneficial impact on what is happening in mathematical classrooms Combining two discourses that of researchers speaking to one another and that of researchers communicating their insights to those responsible for educational practice the book deals with the perennial question of communication between those who study educational processes and those who are directly responsible for teacher education educational research and classroom practices This book will be key reading for postgraduates researchers and academics in education and particularly in the areas of mathematics education education research teacher education and classroom practice It will also appeal to teacher educators practitioners and undergraduate students interested in educational research

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

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

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

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

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