

**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 22: _____ (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 10
B 12
C 14
D 16

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. _____ (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 $2 \times 10^3 + 3 \times 10^2$ _____ (3)
2.5.2 $2 \times 10^3 + 3 \times 10^2$ _____ (3)
[16]

QUESTION 3: EXPONENTS

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

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

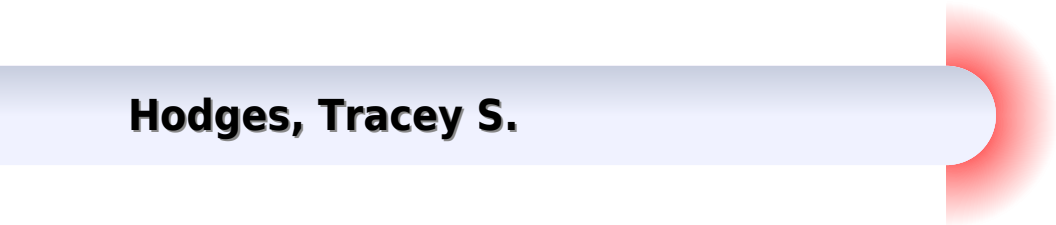
3.3 $5^2 \times 5^3$ _____ (3)

3.4 $5^2 \times 5^3$ _____ (3)

[10]

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Hodges, Tracey S.



Mathematics Grade November Paper 2014:

PISA A Review of International Large-Scale Assessments in Education Assessing Component Skills and Collecting Contextual Data Cresswell John, Schwantner Ursula, Waters Charlotte, 2015-12-11 The OECD has initiated PISA for Development PISA D in response to the rising need of developing countries to collect data about their education systems and the capacity of their student bodies

Handbook of Research on Teacher Practices for Diverse Writing Instruction Hodges, Tracey S., 2022-05-20 The art and practice of writing is complex and multidimensional students often apply unique writing styles As such educators must apply focused teaching methods to nurture these unique forms of writing Educators must stay up to date with the practices for diverse writing instruction in order to best engage with a diverse classroom However resources related to writing typically do not focus on the depth and breadth of writing and there is a need for a resource that offers a comprehensive look at diverse writing instruction research The Handbook of Research on Teacher Practices for Diverse Writing Instruction provides a rich discussion of the issues perspectives and methods for writing instruction currently in use with an added lens focusing on diversity and equity It provides unique coverage on the topic of writing instruction for practical implementation within the classroom setting Covering topics such as student motivation curriculum development and content area instruction this major reference work is an essential resource for preservice teachers faculty and administration of K 12 and higher education academic libraries government officials school boards researchers and academicians

Psychological and Pedagogical Considerations in Digital Textbook Use and Development Railean, Elena, 2015-04-30 This book offers balanced coverage of the technological solutions that contribute to the design of digital textbooks and contribute to achieving learning objectives offering an emphasis on assessment mechanisms and learning theory

Effectiveness of teachers' guides in the Global South Benjamin Piper, Yasmin Sitabkhan, Jessica Mejia, Kellie Betts, 2018-05-10 This report presents the results of RTI International Education s study on teachers guides across 13 countries and 19 projects Using quantitative and qualitative methods we examine how teachers guides across the projects differ and find substantial variation in the design and structure of the documents We develop a scripting index so that the scripting levels of the guides can be compared across projects The impact results of the programs that use teachers guides show significant impacts on learning outcomes associated with approximately an additional half year of learning showing that structured teachers guides contribute to improved learning outcomes During observations we find that teachers make a variety of changes in their classroom instruction from how the guides are written showing that the utilization of structured teachers guides do not create robotic teachers unable to use their own professional skills to teach children Unfortunately many changes that teachers make reduce the amount of group work and interactivity that was described in the guides suggesting that programs should encourage teachers to more heavily utilize the instructional routines designed in the guide The report includes a set of research based guidelines that material developers can use to

develop teachers guides that will support effective instructional practices and help improve learning outcomes The key takeaway from the report is that structured teachers guides improve learning outcomes but that overly scripted teachers guides are somewhat less effective than simplified teachers guides that give specific guidance to the teacher but are not written word for word for each lesson in the guide **The Disorder of Mathematics Education** Hauke

Straehler-Pohl,Nina Bohlmann,Alexandre Pais,2016-08-23 Research within a socio political paradigm or turn has been gradually recognized and institutionalized as an important part of mathematics education This book focuses on the neglected problems tensions and contradictions evoked by this process The authors do this by challenging current regimes of truth about mathematics education by identifying how recent technological developments challenge or suspend contemporary conceptions of mathematics education by critiquing the ideological entanglement of mathematics its education and schooling with capitalism by self reflective analyses of researchers impacts on shaping what is and can be perceived as the practice of mathematics education research and by confronting main stream mathematics education with socio political contexts that are usually neglected In this way mathematical rationality becomes contextualized within contemporary society where it reproduces itself through technologies social practices media and other spheres of social life *Global Action on School*

Library Guidelines Barbara A. Schultz-Jones,Dianne Oberg,2015-06-16 This book celebrates the new IFLA School Library Guidelines and shows how the Guidelines can be used in improving school library services Each chapter describes innovative initiatives for developing implementing and promoting school library guidelines The book provides inspiration and guidance for the creation of national school library standards and for the development and use of standards and guidelines to change school library practice to define the teaching role of school librarians to guide the initial preparation of school librarians and to advocate for school library services Contributors to the book come from around the world Australia Canada Ethiopia France Malaysia Norway Poland Portugal Spain Sweden and the United States Their work illustrates the shared commitment of school librarians around the world to teaching and learning for all as envisioned in the IFLA UNESCO School Library Manifesto **A Focus on Fractions** Marjorie M. Petit,Robert E. Laird,Caroline B. Ebby,Edwin L. Marsden,2022-07-29

The third edition of this book offers a unique approach to making mathematics education research on the teaching and learning of fraction concepts readily accessible and understandable to pre service and in service K 8 mathematics teachers Revealing students thought processes with extensive annotated samples of student work and vignettes characteristic of classroom teachers experience this book provides teachers a research based lens to interpret evidence of student thinking inform instruction and ultimately improve student learning Based on research gathered in the Ongoing Assessment Project OGAP and updated throughout this engaging and easy to use resource also features Two new chapters dedicated to understanding the OGAP Fraction Framework and Progression based on research conducted with hundreds of teachers to gather and interpret evidence of student learning along a learning progression referenced throughout the book so readers can apply the

concepts to their instruction A close focus on student work including 180 annotated pieces of student work to help teachers improve their ability to recognize assess and monitor their students errors and misconceptions as well as their developing conceptual understanding A discussion of decimal fractions also new to the third edition In chapter sections on how Common Core State Standards for Math CCSSM are supported by math education research End of chapter Looking Back questions to allow teachers to analyze student thinking and consider instructional strategies for their own students Instructional links to help teachers relate concepts from each chapter to their own instructional materials and programs Accompanying online Support Material includes an answer key to Looking Back questions as well as a copy of the OGAP Fraction Framework and Progression A Focus on Fractions is part of the popular A Focus on collection designed to aid the professional development of pre service and in service mathematics teachers As with the other volumes on addition and subtraction ratios and proportions and multiplication and division this updated new edition bridges the gap between what math education researchers know and what teachers need to know in order to better understand evidence in student work and make effective instructional decisions

Assessing Academic Literacy in a Multilingual Society Albert Weideman, John Read, Theo du Plessis, 2020-11-02 South African universities face major challenges in meeting the needs of their students in the area of academic language and literacy The dominant medium of instruction in the universities is English and to a much lesser extent Afrikaans but only a minority of the national population are native speakers of these languages Nine other languages can be media of instruction in schools which makes the transition to tertiary education difficult enough in itself for students from these schools The focus of this book is on procedures for assessing the academic language and literacy levels and needs of students not in order to exclude students from higher education but rather to identify those who would benefit from further development of their ability in order to undertake their degree studies successfully The volume also aims to bring the innovative solutions designed by South African educators to a wider international audience

The Education Invasion Joy Pullmann, 2017-03-14 Most Americans had no idea what Common Core was in 2013 according to polls But it had been creeping into schools nationwide over the previous three years and children were feeling its effects They cried over math homework so mystifying their parents could not help them even in elementary school They read motley assortments of informational text instead of classic literature They dreaded the high stakes tests in unfamiliar formats that were increasingly controlling their classrooms How did this latest and most sweeping reform of American education come in mostly under the radar Joy Pullmann started tugging on a thread of reports from worried parents and frustrated teachers and it led to a big tangle of history and politics intrigue and arrogance She unwound it to discover how a cabal of private foundation honchos and unelected public officials cooked up a set of rules for what American children must learn in core K 12 classes and how the Obama administration pressured states to adopt them Thus a federalized education scheme took root despite legal prohibitions against federal involvement in curriculum Common Core and its testing regime were touted as an absolute game

changer in public education yet the evidence so far suggests that kids are actually learning less under it Why then was such a costly and disruptive agenda imposed on the nation s schools Who benefits And how can citizens regain local self governance in education so their children s minds will be fed a more nourishing intellectual diet and be protected from the experiments of emboldened bureaucrats The Education Invasion offers answers and remedies Psychological perspectives on expertise Guillermo Campitelli, Michael H Connors, Merim Bilalić, David Zachary Hambrick, 2015-05-19 Experts are persons who are very knowledgeable about or skillful in a particular area The aim of this Research Topic is to advance knowledge in the understanding of the phenomenon of expertise by putting together different lines of research that directly or indirectly study expertise Herbert Simon s expertise studies initiated two lines of research One is interested in elucidating the cognitive processes underlying expertise and the other investigates how expertise develops These lines of research started with studies comparing experts and novices in chess and then they extended to numerous areas of expertise such as music medical diagnosis sports arts and sciences In the field of judgment and decision making researchers investigate the quality of judgments and decisions of experts in different professions e g clinical psychologists medical practitioners judges meteorologists stock brokers Those lines of research explicitly investigate the topic of expertise but there are other research areas that make a substantial contribution to understanding expertise Scholars in language acquisition and in face perception for example investigate cognitive processes and development of expertise in areas in which almost everyone becomes an expert Furthermore skill acquisition research informs in detail about short term cognitive changes that may be important to understand how expertise develops We are interested in original research that advances knowledge in the understanding of decision making cognitive processes and development of expertise in sports intellectual games arts scientific disciplines and professions as well as expertise in cognitive abilities such as perception memory attention language and imagery We are also interested in theoretical articles in any of these areas articles that describe computational or mathematical models of expertise and articles offering a framework that would guide expertise research Articles that offer integrative approaches of some of the areas described above are strongly encouraged The goal of this Research Topic is to produce a hallmark piece of work in the field of expertise which complements and does not overlap with the Neural implementations of expertise Research Topic in Frontiers in Human Neuroscience

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