

GRADE 9 MATHEMATICS JUNE EXAM

Question 1

Choose the correct answer. Write only the letter next to the question number on your answer sheet.

1.1 Which of the following is a prime number?

- a) 25
- b) 42
- c) 27
- d) -23

1.2 Complete: $2(\sqrt{36}) - (-4)^2 + \sqrt{-343}$

- a) 5
- b) -11
- c) -6
- d) -23

1.3 The next number in the sequence 1; 9; 27; ... is

- a) 56
- b) 49
- c) 64
- d) 36

1.4 Complete: $5\frac{1}{2}x - 1\frac{1}{4}x =$

- a) $2\frac{1}{4}x$
- b) $3\frac{1}{4}x$
- c) $2\frac{11}{2}x$
- d) $4\frac{1}{4}x$

1.5 Which of the following exponential laws are INCORRECT?

- a) $x^a \cdot x^b = x^{a+b}$
- b) $x^a \div x^b = x^{a-b}$
- c) $x^a = 0$
- d) $(x^a)^b = x^a$

[2x2]
 [10]

Question 2

2.1 Write down the HCF of 24 and 36.

(2)

2.2 Write down the LCM of 12, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100.

(3)

2.3 Subtract $2x^2 - 3x^2 - x$ from $7x^2 - 5x - 4x^3$

(3)
 [6]

Question 3

3.1 Calculate: $(2,0 \times 10^2) \times (3,5 \times 10^3)$

(1)

3.2 If $x = 2$, calculate $\frac{1}{2}x^2 + 3x - 4$

(3)

3.3 Simplify:

3.3.1 $-4(x - 5)(x + 3)$

(2)

3.3.2 $\frac{x^2 - 4}{x} - \frac{x}{x - 2}$

(4)

3.3.3 $\frac{x^2 - 4}{x} \div \frac{x - 2}{x + 2}$

(3)

3.3.4 $\frac{x^2 - 4}{x^2 + 4x + 4}$

(4)
 [12]

Question 4

Solve the following equations.

4.1 $2^x = \frac{1}{2}$

(2)

4.2 $x^2 - 4 = 0$

(4)

4.3 $(x + 5)(x - 2) = 0$

(2)

Grade 9 2013 Jun Ana Mathematics Paper

Anne Lutz Fernandez, Catherine Lutz



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Schooled Anne Lutz Fernandez, Catherine Lutz, 2015-07-02 Nothing provided **Teaching and Learning Secondary School Mathematics** Ann Kajander, Jennifer Holm, Egan J Chernoff, 2018-10-24 This volume brings together recent research and commentary in secondary school mathematics from a breadth of contemporary Canadian and International researchers and educators It is both representative of mathematics education generally as well as unique to the particular geography and culture of Canada The chapters address topics of broad applicability such as technology in learning mathematics recent interest in social justice contexts in the learning of mathematics as well as Indigenous education The voices of classroom practitioners the group ultimately responsible for implementing this new vision of mathematics teaching and learning are not forgotten Each section includes a chapter written by a classroom teacher making this volume unique in its approach We have much to learn from one another and this volume takes the stance that the development of a united vision supported by both research and professional dialog provides the first step Staff Bulletin University of Michigan. School of Education, 1960 Bound volumes of the University of Michigan School of Education Staff bulletin **Numerical Development - From cognitive functions to neural underpinnings** Korbinian Moeller, Elise Klein, Klaus F Willmes - von Hinckeldey, Karin Kucian, 2015-02-24 Living at the beginning of the 21st century requires being numerate because numerical abilities are not only essential for life prospects of individuals but also for economic interests of post industrial knowledge societies Thus numerical development is at the core of both individual as well as societal interests There is the notion that we are already born with a very basic ability to deal with small numerosities Yet this often called number sense seems to be very restricted approximate and driven by perceptual constraints During our numerical development in formal e g school but also informal contexts e g family street we acquire culturally developed abstract symbol systems to represent exact numerosities in particular number words and Arabic digits refining our numerical capabilities In recent years numerical development has gained increasing research interest documented in a growing number of behavioural neuro scientific educational cross cultural and neuropsychological studies addressing this issue Additionally our understanding of how numerical competencies develop has also benefitted considerably from the advent of different neuro imaging techniques allowing for an evaluation of developmental changes in the human brain In sum we are now starting to put together a more and more coherent picture of how numerical competencies develop and how this development is associated with neural changes as well In the end this knowledge might also lead to a better understanding of the reasons for atypical numerical development which often has grievous consequences for those who suffer from developmental dyscalculia or mathematics learning disabilities Therefore this Research Topic deals with all aspects of numerical development findings from behavioural performance to underlying neural substrates from cross sectional to longitudinal evaluations from healthy to clinical populations To this end we included empirical contributions using different experimental methodologies but also theoretical contributions review articles or

opinion papers **Interest in Mathematics and Science Learning** Ann Renninger, Martina Nieswandt, Suzanne Hidi, 2015-04-19 Interest in Mathematics and Science Learning edited by K Ann Renninger Martin Nieswandt and Suzanne Hidi is the first volume to assemble findings on the role of interest in mathematics and science learning As the contributors illuminate across the volume s 22 chapters interest provides a critical bridge between cognition and affect in learning and development This volume will be useful to educators researchers and policy makers especially those whose focus is mathematics science and technology education **Mathematics Education in the Early Years** Tamsin Meaney, Ola Helenius, Maria L. Johansson, Troels Lange, Anna Wernberg, 2016-01-22 This book presents chapters based on papers presented at the second POEM conference on early mathematics learning These chapters broaden the discussion about mathematics education in early childhood by exploring the debate about construction versus instruction Specific sections investigate the teaching and learning of mathematical processes and mathematical content early childhood teacher development transitions for young children between home and preschool between home and school and between preschool and school The chapters use a range of innovative theoretical and methodological approaches which will form an interesting basis for future research in this area *The Boy Crisis* Warren Farrell, John Gray, 2018-03-13 What is the boy crisis It s a crisis of education Worldwide boys are 50 percent less likely than girls to meet basic proficiency in reading math and science It s a crisis of mental health ADHD is on the rise And as boys become young men their suicide rates go from equal to girls to six times that of young women It s a crisis of fathering Boys are growing up with less involved fathers and are more likely to drop out of school drink do drugs become delinquent and end up in prison It s a crisis of purpose Boys old sense of purpose being a warrior a leader or a sole breadwinner are fading Many bright boys are experiencing a purpose void feeling alienated withdrawn and addicted to immediate gratification So what is The Boy Crisis A comprehensive blueprint for what parents teachers and policymakers can do to help our sons become happier healthier men and fathers and leaders worthy of our respect **Mathematical and Statistics Anxiety: Educational, Social, Developmental and Cognitive Perspectives** Kinga Morsanyi, Irene Cristina Mammarella, Denes Szűcs, Carlo Tomasetto, Caterina Primi, Erin Anne Maloney, 2017-01-19 Mathematical anxiety is a feeling of tension apprehension or fear which arises when a person is faced with mathematical content The negative consequences of mathematical anxiety are well documented Students with high levels of mathematical anxiety might underperform in important test situations they tend to hold negative attitudes towards mathematics and they are likely to opt out of elective mathematics courses which also affects their career opportunities Although at the university level many students do not continue to study mathematics social science students are confronted with the fact that their disciplines involve learning about statistics another potential source of anxiety for students who are uncomfortable with dealing with numerical content Research on mathematical anxiety is a truly interdisciplinary field with contributions from educational developmental cognitive social and neuroscience researchers The current collection of papers demonstrates the

diversity of the field offering both new empirical contributions and reviews of existing studies The contributors also outline future directions for this line of research *Proceedings of the 6th International Conference on Current Issues in Education (ICCIE) 2023* Paramita Cahyaningrum Kuswandi,Ezi Apino,Syahri Ramadhan,Ririn Susetyaningsih,Siwi Widiastuti,2024-05-18 This is an open access book In this Industrial Era 4.0 society encounters significant environmental economic and social challenges Thus educational institutions need to ensure that all students are well prepared for the future and that they can act as agents of change As a result educational institution must expand their educational system extensively to address these challenges including reshaping teaching and learning notions and platforms that immensely focus on not only developing a broad set of academic staff and student s knowledge skills attitudes and values but also upholding the fast growing technology Building strong learning connections should be perceived as the highest priority in educational institutions The connection paves the way for critical thinking and it is a fundamental concept that connects both context and relevance In this digital information age technology has enormous potential to assist this whole process of connection The 5thInternational Conference of Current Issues in Education ICCIE 2023 provides platforms for researchers and practitioners to share their ideas and experiences concerning these issues The conference also brings an excellent opportunity to connect with global participants and enhance further collaborations Individual Differences in Arithmetical Development Ann Dowker,Bert De Smedt,Annemie Desoete,2020-01-03 This eBook is a collection of articles from a Frontiers Research Topic Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series they are collections of at least ten articles all centered on a particular subject With their unique mix of varied contributions from Original Research to Review Articles Frontiers Research Topics unify the most influential researchers the latest key findings and historical advances in a hot research area Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office frontiersin.org about contact

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