

**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 1

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, 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 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  $2 \times 10^3 + 3 \times 10^2 + 4 \times 10^1 + 5$  \_\_\_\_\_ (3)  
2.5.2  $2 \times 10^3 + 3 \times 10^2 + 4 \times 10^1 + 5$  \_\_\_\_\_ (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  $\sqrt{5^2}$  \_\_\_\_\_ (3)

[10]

# 13 Maths Ana 2014 Memorandum Grade 9

**Wenbin Ji**



### 13 Maths Ana 2014 Memorandum Grade 9:

**Advances in Harmonic Analysis and Partial Differential Equations** Donatella Danielli,Irina Mitrea,2020-04-09 This volume contains the proceedings of the AMS Special Session on Harmonic Analysis and Partial Differential Equations held from April 21 22 2018 at Northeastern University Boston Massachusetts The book features a series of recent developments at the interface between harmonic analysis and partial differential equations and is aimed toward the theoretical and applied communities of researchers working in real complex and harmonic analysis partial differential equations and their applications The topics covered belong to the general areas of the theory of function spaces partial differential equations of elliptic parabolic and dissipative types geometric optics free boundary problems and ergodic theory and the emphasis is on a host of new concepts methods and results

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framework has emerged to challenge its hegemony The American public today has little confidence in institutions to improve the quality of goods and services they provide especially in the public sector As a consequence many Americans continue to believe that accountability remains a vital necessity even if educators and policy scholars disagree [More Human](#) Steve Hilton,Jason Bade,Scott Bade,2015-05-21 Both campaigns are treating people like simpletons In [More Human](#) read the truth about Brexit from someone who really knows In this powerful manifesto Steve Hilton argues that the frustrations people feel with government politics their economic circumstances and their daily lives are caused by deep structural problems with the systems that dominate our modern world systems that have become too big bureaucratic and distant from the human scale He shows how change is possible offering us a more human way of living **Scientific and Technical Aerospace Reports**

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**Guide to Microforms in Print** ,1989 *Forthcoming Books* Rose Arny,1997 **Who's who Among Students in American Universities and Colleges** Henry Pettus Randall,1970 [International Catalogue of Scientific Literature](#) ,1902

*Applications of Computational Intelligence in Data-Driven Trading* Cris Doloc,2019-11-05 Life on earth is filled with many mysteries but perhaps the most challenging of these is the nature of Intelligence Prof Terrence J Sejnowski Computational Neurobiologist The main objective of this book is to create awareness about both the promises and the formidable challenges that the era of Data Driven Decision Making and Machine Learning are confronted with and especially about how these new developments may influence the future of the financial industry The subject of Financial Machine Learning has attracted a lot of interest recently specifically because it represents one of the most challenging problem spaces for the applicability of Machine Learning The author has used a novel approach to introduce the reader to this topic The first half of the book is a readable and coherent introduction to two modern topics that are not generally considered together the data driven paradigm and Computational Intelligence The second half of the book illustrates a set of Case Studies that are contemporarily relevant to quantitative trading practitioners who are dealing with problems such as trade execution optimization price dynamics forecast portfolio management market making derivatives valuation risk and compliance The main purpose of this book is pedagogical in nature and it is specifically aimed at defining an adequate level of engineering and scientific clarity when it comes to the usage of the term Artificial Intelligence especially as it relates to the financial industry The message conveyed by this book is one of confidence in the possibilities offered by this new era of Data Intensive Computation This message is not grounded on the current hype surrounding the latest technologies but on a deep analysis of their effectiveness and also on the author s two decades of professional experience as a technologist quant and academic

[Whitaker's Books in Print](#) ,1998 **Who's who in America** ,1962

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