

**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 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 $3 \times 10^3 + 4 \times 10^3$ _____ (3)
2.5.2 $3 \times 10^3 + 4 \times 10^3$ _____ (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]

Mathematics Grade 1memo 2014 November

Martin Hutzenthaler, Arnulf Jentzen



Mathematics Grade 1memo 2014 November:

The Contrarian Max Chafkin, 2025-09-09 A New York Times Notable Book A shocking and assiduously reported biography of venture capitalist and entrepreneur Peter Thiel the enigmatic controversial and hugely influential power broker whose techno authoritarian worldview is coming to dominate our collective reality Max Chafkin's *The Contrarian* is much more than a consistently shocking biography of Peter Thiel the most important investor in tech and a key supporter of the Donald Trump presidency It's also a disturbing history of Silicon Valley that will make you reconsider the ideological foundations of America's relentless engine of creative destruction Brad Stone author of *The Everything Store* and *Amazon Unbound* Since the days of the dot com bubble in the late 1990s no industry has made a greater impact on the world than Silicon Valley And few individuals have done more to shape Silicon Valley than Peter Thiel The billionaire venture capitalist and entrepreneur has been a behind the scenes operator influencing countless aspects of contemporary life from the technologies that mediate our daily existence to the rise of the far right effort among some of the most powerful people in Silicon Valley and Washington to untether the U S government from the established constitutional order But despite his being one of the most important forces behind the tectonic shifts in America's sociopolitical landscape no public figure is quite so mysterious In the first major biography of Thiel Max Chafkin traces the trajectory of the innovator's singular life and philosophy from his upbringing as the child of immigrant parents and years at Stanford as a burgeoning conservative thought leader to his founding of PayPal and Palantir early investment in Facebook and SpaceX and relationships with fellow tech titans Mark Zuckerberg Elon Musk and Eric Schmidt *The Contrarian* illuminates the extent to which Thiel has sought to export his values to the corridors of power beyond Silicon Valley including strenuously backing outsider political candidates notably a young Senate hopeful named JD Vance and the longshot 2016 presidential contender Donald Trump Essential reading for a post 2024 world *The Contrarian* is a revelatory biography of a one of a kind leader and a deeply insightful portrait of a tech industry whose explosive growth and power is both thrilling and fraught with peril **FCC Record** United States. Federal Communications Commission, 2017 *Minerals Yearbook* Geological Survey, Interior Department, Mines Bureau, 2018-04-19 This volume of the *Minerals Yearbook* provides an annual review of mineral production and trade and of mineral related government and industry developments in more than 175 foreign countries It is normally published in separate books that cover specific regions In this publication the regional books are combined into one commemorative volume These annual reviews are designed to provide timely statistical data on mineral commodities in various countries Each report includes sections on government policies and programs environmental issues trade and production data industry structure and ownership commodity sector developments infrastructure and a summary outlook More information is available on the three volumes of the *Minerals Yearbook* Regional Areas Covered Africa and the Middle East Asia and the Pacific Europe and Central Eurasia North America Central America and the Caribbean South America *Minerals Yearbook*, 2013

Numerical Approximations of Stochastic Differential Equations with Non-Globally Lipschitz Continuous Coefficients

Martin Hutzenhaler, Arnulf Jentzen, 2015-06-26 Many stochastic differential equations SDEs in the literature have a superlinearly growing nonlinearity in their drift or diffusion coefficient Unfortunately moments of the computationally efficient Euler Maruyama approximation method diverge for these SDEs in finite time This article develops a general theory based on rare events for studying integrability properties such as moment bounds for discrete time stochastic processes Using this approach the authors establish moment bounds for fully and partially drift implicit Euler methods and for a class of new explicit approximation methods which require only a few more arithmetical operations than the Euler Maruyama method These moment bounds are then used to prove strong convergence of the proposed schemes Finally the authors illustrate their results for several SDEs from finance physics biology and chemistry *Department of Homeland Security Appropriations for 2014* United States. Congress. House. Committee on Appropriations. Subcommittee on Homeland Security, 2013 **Self-Reliant Pilot** Bill Quirk, 2015-07-13 Color illustrated Self Reliant Pilot focuses on flying small taildragger aircraft and landing them in remote and challenging terrain in wild Alaska It displays the inspiration of flying in Alaska defining who are the incredible pilots that fly Alaska s backcountry and showing the training necessary to become the best pilot you can be It discusses the weather related problems of flying in Alaska and shows ways to minimize the difficulties It also discusses the elevated aircraft accident rate in Alaska and how to substantially reduce such incidences Self Reliant Pilot serves as a primer for Alaskan style training Once a pilot learns how to train according to the book additional or new training can be carried out without difficulty because the pilot has already learned the foundation for training Self Reliant Pilot is a classical training manual because it is written in a contemporary style that is always current As time goes forward the strategy for training will remain the same Seventy five distinctive narratives in the last part of the book show general aviation topics and authenticated experiences of a skilled pilot flying Alaska s uninhabited backcountry The narratives include the inspiration of flying Alaska s coastal mountains glaciers and fjords flying and landing in Alaska s backcountry in winter on skis and in summer on Bushwheels flying wildlife surveys and observing rare wildlife encounters *Appendix, Budget of the United States Government, Fiscal Year 2016* Executive Office of the President, 2015-02-02 Officially released on February 2 2015 As one of the reference volumes of the FY2016 Budget request of the President the popular Fiscal Year Budget Appendix volume presents detailed financial information on individual programs Federal agencies and appropriation accounts that constitute the budget in tables and graphs Includes for each Government department and agency the text of proposed appropriations language budget schedules for each account new legislative proposals and explanations of the work to be performed and the funds needed and proposed general provisions applicable to the appropriations of entire agencies or groups of agencies Federal agency personnel policy makers think tank advocates lawmakers media organizations and others interested in a line item by line item view of the President s proposed Fiscal year Budget will want this resource in their

personal library collection Public and academic libraries will want to make this annual reference product available for the general public in their Government collections Students studying Public Finance political scientists and researchers will appreciate this detailed information with authoritative data legends presented in tables and graphs Budget of the United States Government United States. Office of Management and Budget,2015 **The Schenley Experiment** Jake Oresick,2017-04-14 The Schenley Experiment is the story of Pittsburgh s first public high school a social incubator in a largely segregated city that was highly even improbably successful throughout its 156 year existence Established in 1855 as Central High School and reorganized in 1916 Schenley High School was a model of innovative public education and an ongoing experiment in diversity Its graduates include Andy Warhol actor Bill Nunn and jazz virtuoso Earl Hines and its prestigious academic program and pensions lured such teachers as future Pulitzer Prize winner Willa Cather The subject of investment as well as destructive neglect the school reflects the history of the city of Pittsburgh and provides a study in both the best and worst of urban public education practices there and across the Rust Belt Integrated decades before Brown v Board of Education Schenley succumbed to default segregation during the white flight of the 1970s it rose again to prominence in the late 1980s when parents camped out in six day long lines to enroll their children in visionary superintendent Richard C Wallace s reinvigorated school Although the historic triangular building was a cornerstone of its North Oakland neighborhood and a showpiece for the city of Pittsburgh officials closed the school in 2008 citing over 50 million in necessary renovations a controversial event that captured national attention Schenley alumnus Jake Oresick tells this story through interviews historical documents and hundreds of first person accounts drawn from a community indelibly tied to the school A memorable important work of local and educational history his book is a case study of desegregation magnet education and the changing nature and legacies of America s oldest public schools

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