

# SHARP

## June Exam Memorandum

### Grade 8 Mathematics

Marks: 150

Time: 2 hours

#### Question 1 [16]

- 1.1. 25; 78; 23; -7;  $\sqrt{-2}$ ;  $\frac{9}{5}$ ;  $\frac{8}{9}$ ; 36; -64; 51;
- 1.1.1. 25, 78, 23, -7,  $\frac{8}{9}$ , 36, -64, 51 (2) minus  $\frac{1}{5}$  for every two values missing from the list
- 1.1.2.  $\sqrt{-2}$ ,  $\frac{8}{9}$  (2) 1 mark each
- 1.1.3. 25, 36 (1)  $\frac{1}{5}$  mark each
- 1.1.4. -64 (1)
- 1.1.5. 23, 51 (2) 1 mark each

- 1.2. 1.2.1. 84; 1, 2, 3, 4, 6, 7, 12, 14, 21, 28, 42, 84 (2)  
minus  $\frac{1}{5}$  for every 2 values missing from the list
- 1.2.2. 54; 1, 2, 3, 6, 9, 18, 27, 54 (2)  
Minus  $\frac{1}{5}$  for every 2 values missing from the list

- 1.3. 1.3.1.
- |    |   |
|----|---|
| 98 | 2 |
| 49 | 7 |
| 7  | 7 |
| 1  |   |
- |    |   |
|----|---|
| 70 | 2 |
| 35 | 7 |
| 5  | 5 |
| 1  |   |
- $\Delta$  Highest common factor:  $2 \times 7 = 14$   $\checkmark$   
 $\Delta$  Lowest Common Multiple:  $2 \times 7 \times 7 \times 5 = 490$   $\checkmark$  (2)

- 1.3.2.
- |    |   |
|----|---|
| 72 | 2 |
| 36 | 2 |
| 18 | 2 |
| 9  | 3 |
| 3  | 3 |
| 1  |   |
- |     |   |
|-----|---|
| 120 | 2 |
| 60  | 2 |
| 30  | 2 |
| 15  | 3 |
| 5   | 5 |
| 1   |   |

$\Delta$  HCF =  $2 \times 2 \times 2 \times 3 = 24$   
 $\Delta$  LCM =  $2 \times 2 \times 2 \times 3 \times 3 \times 5$   
 $= 360$



# Grade June 2013 Mathematics Exam Memorandum

**Mark Steyvers**



## **Grade June 2013 Mathematics Exam Memorandum:**

*A Chronicle of Echoes* Mercedes K. Schneider, 2014-04-01 Corporate reform is not reform at all. Instead, it is the systematic destruction of the foundational American institution of public education. The primary motivation behind this destruction is greed. Public education in America is worth almost a trillion dollars a year. Whereas American public education is a democratic institution, its destruction is being choreographed by a few wealthy, well-positioned individuals and organizations. This book investigates and exposes the handful of people and institutions that are often working together to become the driving force behind destroying the community public school. After the Education Wars Andrea Gabor, 2018-06-12 The education wars have been demoralizing for teachers. *After the Education Wars* helps us to see a better way forward. Cathy N. Davidson, *The New York Times Book Review*. *After the Education Wars* is an important book that points the way to genuine reform. Diane Ravitch, author of *Reign of Error* and *The Death and Life of the Great American School System*. A bestselling business journalist critiques the top-down approach of popular education reforms and profiles the unexpected success of schools embracing a nimbler, more democratic entrepreneurialism. In an entirely fresh take on school reform, business journalist and bestselling author Andrea Gabor argues that Bill Gates, Eli Broad, and other leaders of the prevailing education reform movement have borrowed all the wrong lessons from the business world. *After the Education Wars* explains how the market-based measures and carrot-and-stick incentives informing today's reforms are out of sync with the nurturing culture that good schools foster and contrary to popular belief at odds with the best practices of thriving twenty-first-century companies as well. These rich, detailed stories of real reform in action illustrate how enduring change must be deeply collaborative and relentlessly focused on improvement from the grass roots up. Lessons also learned from both the open-source software and quality movements. The good news is that solutions born of this philosophy are all around us from Brockton, Massachusetts, where the state's once-failing largest high school now sends most graduates to college, to Leander, Texas, a large district where school improvement spurred by the ideas of quality guru W. Edwards Deming has become a way of life. A welcome exception to the doom and gloom canon of education reform, *After the Education Wars* makes clear that what's needed is not more grand ideas but practical and informed ways to grow the best ones that are already transforming schools. **Assessing Contexts of Learning** Susanne Kuger, Eckhard Klieme, Nina Jude, David Kaplan, 2016-12-05 This volume brings together educational effectiveness research and international large-scale assessments, demonstrating how the two fields can be applied to inspire and improve each other and providing readers direct links to instruments that cover a broad range of topics and have been shown to work in more than 70 countries. The book's initial chapters introduce and summarize recent discussions and developments in the conceptualization, implementation, and evaluation of international large-scale context assessments and provide an outlook on possible future developments. Subsequently, three thematic sections—Student Background, Outcomes of Education Beyond Achievement, and Learning in

Schools each present a series of chapters that provide the conceptual background for a wide range of important topics in education research policy and practice Each chapter defines a conceptual framework that relates recent findings in the educational effectiveness research literature to current issues in education policy and practice These frameworks were used to develop interesting and relevant indicators that may be used for meaningful reporting from international assessments other cross cultural research or national studies Using the example of one particular survey the Programme for International Student Assessment PISA 2015 this volume links all theoretical considerations to fully developed questionnaire material that was field trailed and evaluated in questionnaires for students and their parents as well as teachers and principals in their schools The primary purposes of this book are to inform readers about how education effectiveness research and international large scale assessments are already interacting to inform research and policymaking to identify areas where a closer collaboration of both fields or input from other areas could further improve this work to provide sound theoretical frameworks for future work in both fields and finally to relate these theoretical debates to currently available and evaluated material for future context assessments

Exceptional Child Education Resources ,1977     *Aerospace Engineering Index* ,1951     **Aeronautical Engineering Index** ,1951

## Adopting the Track of Appearance: An Mental Symphony within **Grade June 2013 Mathematics Exam Memorandum**

In some sort of eaten by screens and the ceaseless chatter of quick communication, the melodic elegance and emotional symphony developed by the prepared term often fade in to the back ground, eclipsed by the relentless sound and distractions that permeate our lives. Nevertheless, nestled within the pages of **Grade June 2013 Mathematics Exam Memorandum** a wonderful fictional prize filled with organic feelings, lies an immersive symphony waiting to be embraced. Constructed by a masterful musician of language, that fascinating masterpiece conducts viewers on a psychological journey, skillfully unraveling the concealed melodies and profound influence resonating within each carefully crafted phrase. Within the depths of the moving assessment, we will examine the book is key harmonies, analyze its enthralling writing design, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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web it is the first book to explicitly solve path integrals of a wide variety of nontrivial quantum mechanical systems in particular of the hydrogen atom the solutions have been made possible by two major advances the first is a new euclidean path integral formula which increases the restricted range of applicability of feynman s famous formula

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web the path integral is a formulation of quantum mechanics equivalent to the standard formulations offering a new way of looking at the subject which is arguably more intuitive than the usual approaches

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web may 3 2021 the path integral formulation of quantum mechanics i e the idea that the evolution of a quantum system is determined as a sum over all the possible trajectories that would take the system from the initial to its final state of its dynamical evolution is perhaps the most elegant and universal framework developed in theoretical physics second



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web jul 2 2016 abstract path integrals provide in many instances an elegant complementary description of quantum mechanics and also for the quantization of fields which we will study from a canonical point of view in chapter 17 and following chapters