

**ប្រឡងជ្រើសរើសសិស្សពូកែពូជនៃប្រទេស**

ផ្នែកអក្សរសិល្ប៍វិទ្យា គណិតវិទ្យា រូបវិទ្យា ថ្នាក់ទី៩ និងថ្នាក់ទី១២

សម័យប្រឡង ០១ មេសា ២០១៤

វិញ្ញាសាទី១ គណិតវិទ្យាថ្នាក់ទី៩ ជម្រាបថ្ងៃទី០១ ខែមេសា ឆ្នាំ២០១៤

រយៈពេល ១៨០ នាទី

I.(១០ពិន្ទុ)

១.រកផលធៀន

$$S = \frac{2015}{1 \times 2} + \frac{2015}{2 \times 3} + \dots + \frac{2015}{2014 \times 2015}$$

២.រកផលធៀន

$$T = \frac{2^9}{2^{10}} + \frac{2^8}{2^{10}} + \frac{2^7}{2^{10}} + \dots + \frac{1}{2^{10}}$$

II.(១០ពិន្ទុ) រង្វាស់ជ្រុងទាំងបីនៃត្រីកោណ  $ABC$  មួយជាចំនួនគត់ដែល  $AB = 2014 \text{ cm}$ ,  $BC = 1 \text{ cm}$  និង  $AC = 9 \text{ cm}$  ។

ចូរកំណត់ផលធៀន  $x$  រួចប្រាប់លេខនៃត្រីកោណ  $ABC$  ។

III.(១០ពិន្ទុ) ចូរកំណត់  $A = (\underbrace{111 \dots 111}_{1 \text{ ចំនួន } 2007 \text{ ខ្ទង់}}) \times 2007$

1 ចំនួន 2007 ខ្ទង់

រួចរកផលបូកនៃលេខទាំងអស់របស់លទ្ធផលនៃប្រមាណវិធីគុណនេះ ។

IV.(១០ពិន្ទុ) តើមានលេខនៃចំនួនគត់ និងលេខនៃចំនួនលេសប៉ុន្មាន? នៅក្នុងលទ្ធផលនៃវិធីគុណ

$$2222222222 \times 9999999999$$

រកផល នៅក្នុងលេខ 7568168 មានលេខនៃចំនួនគត់ 4 និងមានលេខនៃចំនួនលេស 3 ។

V.(១៥ពិន្ទុ) អំពូលឆ្នើមចំនួន 5 ត្រូវបានចែកចំរើបតាមសំនាម  $A, B, C, D$  និង  $E$  ។

អំពូលនីមួយៗសុទ្ធតែមានក្នុងពាក់រូបសំនាមនាមចំនួន និងស្ថិតក្នុងស្ថានភាពក្នុងពាក់រូបបើក(ក្លាស់ប័ណ្ណ) ។

ផុតចាប់ផ្តើមបើកក្នុងពាក់រូប(មានប័ណ្ណ) ពី  $A$  រហូតដល់  $E$  បន្ទាប់មកបើកក្នុងពាក់រូបពី  $A$  រហូតដល់  $E$  ។

សំនាំបែបនេះចេះតែបន្តបន្តបន្តនៃលក្ខណៈស្មើគ្នា(សំនាំ  $A$  ដល់  $E$ ) រហូតដល់ 2014 ដង ។

នៅទីបញ្ចប់តើអំពូលណាខ្លះឆ្លើយ និងអំពូលណាខ្លះមិនឆ្លើយ?

VI.(១៥ពិន្ទុ) អរិយ និងកណ៌កា បានជួបគ្នានៅក្រុងព្រះសីហនុចំនួនថ្ងៃទី 29 ខែកុម្ភៈ ឆ្នាំ 2012 ។

អ្នកទាំងពីរបានសន្យាថា នឹងជួបគ្នានៅថ្ងៃទី 29 ខែកុម្ភៈ រួចរៀននៅកន្លែងដដែល ។

តើប៉ុន្មានឆ្នាំទៀតនឹងអ្នកទាំងពីរជួបគ្នា? តើអ្នកទាំងពីរជួបគ្នានៅឆ្នាំណា?

VII.(១៥ពិន្ទុ) រង្វាស់ជ្រុងទាំងបីនៃត្រីកោណកែងមួយជាចំនួនគត់ ។ នៅលើជ្រុងទាំងបីនៃត្រីកោណនេះ គេសង់ការ៉េចំនួនបី

ដែលផលបូកផ្ទៃក្រឡានៃការ៉េទាំងបីនោះស្មើនឹង  $338 \text{ cm}^2$  ។

ចូររកផ្ទៃក្រឡានៃការ៉េមួយក្នុងចំណោមការ៉េទាំងបីដែលធំជាងគេ?

VIII.(១៥ពិន្ទុ) គេមានត្រីកោណសមបាត  $MNP$  កំពូល  $M$  ដែល  $MN = MP$  ។

$D$  និង  $E$  ជាចំណុចមួយនៃជ្រុង  $MN$  និង  $MP$  ដែល  $MN = 4ND$  និង  $MP = 4ME$  ។

ផ្ទៃក្រឡានៃពហុកោណ  $MPEP$  មានរង្វាស់  $52 \text{ cm}^2$  ។ ចូររកផ្ទៃក្រឡានៃត្រីកោណ  $MED$  គិតជា  $\text{cm}^2$  ។

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# Grade 9 2014 Maths Exam Scope

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## **Grade 9 2014 Maths Exam Scope:**

## Unveiling the Magic of Words: A Overview of "**Grade 9 2014 Maths Exam Scope**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Grade 9 2014 Maths Exam Scope**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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### **Table of Contents Grade 9 2014 Maths Exam Scope**

1. Understanding the eBook Grade 9 2014 Maths Exam Scope
  - The Rise of Digital Reading Grade 9 2014 Maths Exam Scope
  - Advantages of eBooks Over Traditional Books
2. Identifying Grade 9 2014 Maths Exam Scope
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Grade 9 2014 Maths Exam Scope
  - User-Friendly Interface
4. Exploring eBook Recommendations from Grade 9 2014 Maths Exam Scope
  - Personalized Recommendations
  - Grade 9 2014 Maths Exam Scope User Reviews and Ratings
  - Grade 9 2014 Maths Exam Scope and Bestseller Lists

5. Accessing Grade 9 2014 Maths Exam Scope Free and Paid eBooks
  - Grade 9 2014 Maths Exam Scope Public Domain eBooks
  - Grade 9 2014 Maths Exam Scope eBook Subscription Services
  - Grade 9 2014 Maths Exam Scope Budget-Friendly Options
6. Navigating Grade 9 2014 Maths Exam Scope eBook Formats
  - ePub, PDF, MOBI, and More
  - Grade 9 2014 Maths Exam Scope Compatibility with Devices
  - Grade 9 2014 Maths Exam Scope Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Grade 9 2014 Maths Exam Scope
  - Highlighting and Note-Taking Grade 9 2014 Maths Exam Scope
  - Interactive Elements Grade 9 2014 Maths Exam Scope
8. Staying Engaged with Grade 9 2014 Maths Exam Scope
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Grade 9 2014 Maths Exam Scope
9. Balancing eBooks and Physical Books Grade 9 2014 Maths Exam Scope
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Grade 9 2014 Maths Exam Scope
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Grade 9 2014 Maths Exam Scope
  - Setting Reading Goals Grade 9 2014 Maths Exam Scope
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Grade 9 2014 Maths Exam Scope
  - Fact-Checking eBook Content of Grade 9 2014 Maths Exam Scope
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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qualifications you are seeking at the company name in particular my role as probation officer with the company

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