

ប្រឡងជ្រើសរើសសិស្សពូកែពូជនៃប្រទេស

ផ្នែកអក្សរសិល្ប៍វិទ្យា គណិតវិទ្យា រូបវិទ្យា ថ្នាក់ទី៩ និងថ្នាក់ទី១២

សម័យប្រឡង ០១ មេសា ២០១៤

វិញ្ញាសាទី១ គណិតវិទ្យាថ្នាក់ទី៩ ជម្រាបថ្ងៃទី០១ ខែមេសា ឆ្នាំ២០១៤

រយៈពេល ១៨០ នាទី

I.(១០ពិន្ទុ)

១.រកផលធៀបនៃ

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

២.រកផលធៀបនៃ

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

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

ចូរកំណត់ផលធៀបនៃ ៥ រូបប្រាប់លេខនៃត្រីកោណ ABC ។

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

1 ចំនួន 2007 ខ្ទង់

រួមរកផលបូកនៃលេខទាំងអស់របស់លេខផលនៃប្រមាណវិធីគុណនេះ ។

IV.(១០ពិន្ទុ) តើមានលេខនៃចំនួនគត់ និងលេខនៃចំនួនលេសប៉ុន្មាន? នៅក្នុងលេខផលនៃវិធីគុណ

$$2222222222 \times 9999999999$$

រកផល នៅក្នុងលេខ 7568168 មានលេខនៃចំនួនគត់ 4 និងមានលេខនៃចំនួនលេស 3 ។

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

អំពូលនីមួយៗសុទ្ធតែមានក្នុងពាក់រូបសំនាមនាមចំនីត្វា និងស្ថិតក្នុងស្ថានភាពក្នុងពាក់បើក(ក្លានចរ) ។

ផុតចាប់ផ្តើមបើកក្នុងពាក់(មានចរ) ពី A រហូតដល់ E បន្ទាប់មកបើកក្នុងពាក់វិញពី A រហូតដល់ E ។

សំនាំបែបនេះចេះតែបន្តដដែលៗសារុះសារឡើង(A ដល់ E) រហូតដល់ 2014 ដង ។

នៅទីបញ្ចប់តើអំពូលណាខ្លះឆ្លី និងអំពូលណាខ្លះមិនឆ្លី?

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

អ្នកទាំងពីរបានសន្យាថា នឹងជួបគ្នានៅពូជទី 29 ខែកុម្ភៈ អ្វីៗទៀតនៅកន្លែងដដែល ។

តើប៉ុន្មានឆ្នាំទៀតនឹងអ្នកទាំងពីរជួបគ្នា? តើអ្នកទាំងពីរជួបគ្នានៅឆ្នាំណា?

VII.(១៥ពិន្ទុ) រង្វាស់ជ្រុងទាំងបីនៃត្រីកោណកែងមួយជាចំនួនគត់ ។ នៅលើជ្រុងទាំងបីនៃត្រីកោណនេះ គេសង់ការ៉េចំនួនបី

ដែលផលបូកផ្ទៃក្រឡានៃការ៉េទាំងបីនោះស្មើនឹង 338 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 $MPEDE$ មានរង្វាស់ 52 cm^2 ។ ចូររកផ្ទៃក្រឡានៃត្រីកោណ MED គិតជា cm^2 ។

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Klarin Loots, Linda Loots, Claris de Lange



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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

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