

Answer the questions

- (1) The average of four numbers is 40. If average of first three numbers is triple of fourth number, find the fourth number.
- (2) Roman has to travel a long way to go to work everyday. Roman first takes his cycle to travel $\frac{3}{20}$ of the total distance to the bus-stop. The bus takes him another $\frac{281}{1280}$ of the distance. Roman then takes a train to travel a distance of 44.545 km. And finally he walks $\frac{19}{320}$ of the total distance from the station to his office. What is the total distance (in kilometers) from his house to the office?
- (3) Assume that the symbol $\lceil x \rceil$ denotes the largest integer not exceeding x . For example, $\lceil 3 \rceil = 3$, and $\lceil 9 \rceil = 4$.
What is the value of $\sqrt{1} + \sqrt{2} + \sqrt{3} + \dots + \sqrt{100}$?
- (4) A semi-circular sheet of paper of radius 2 cm is bent to form an open conical cup. Find the capacity of the cup.

Choose correct answer(s) from given choice

- (5) Faces of a cube are marked with 1,2,3,4,5 and 6. Two views of cube are as shown below, if face 2 is opposite to face 1, what will be there on the face opposite to face 5?



- a. 4
b. 3
c. 6
d. Cannot be determined
- (6) Natalia buys 4 stamps. Christina buys 3 more stamps than Natalia. How many stamps do both of them have altogether?
a. 14
b. 10
c. 13
d. 11

Math Kangaroo 2010 Questions

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Brandl**

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Table of Contents Math Kangaroo 2010 Questions

1. Understanding the eBook Math Kangaroo 2010 Questions
 - The Rise of Digital Reading Math Kangaroo 2010 Questions
 - Advantages of eBooks Over Traditional Books
2. Identifying Math Kangaroo 2010 Questions
 - 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 Math Kangaroo 2010 Questions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Math Kangaroo 2010 Questions
 - Personalized Recommendations
 - Math Kangaroo 2010 Questions User Reviews and Ratings
 - Math Kangaroo 2010 Questions and Bestseller Lists
5. Accessing Math Kangaroo 2010 Questions Free and Paid eBooks
 - Math Kangaroo 2010 Questions Public Domain eBooks
 - Math Kangaroo 2010 Questions eBook Subscription Services
 - Math Kangaroo 2010 Questions Budget-Friendly Options

6. Navigating Math Kangaroo 2010 Questions eBook Formats
 - ePub, PDF, MOBI, and More
 - Math Kangaroo 2010 Questions Compatibility with Devices
 - Math Kangaroo 2010 Questions Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Math Kangaroo 2010 Questions
 - Highlighting and Note-Taking Math Kangaroo 2010 Questions
 - Interactive Elements Math Kangaroo 2010 Questions
8. Staying Engaged with Math Kangaroo 2010 Questions
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Math Kangaroo 2010 Questions
9. Balancing eBooks and Physical Books Math Kangaroo 2010 Questions
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Math Kangaroo 2010 Questions
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Math Kangaroo 2010 Questions
 - Setting Reading Goals Math Kangaroo 2010 Questions
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Math Kangaroo 2010 Questions
 - Fact-Checking eBook Content of Math Kangaroo 2010 Questions
 - 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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