

[দ্রষ্টব্য : প্রতিটি বিভাগ হাতে কমপক্ষে ১টি করে নিয়ে যে কোনো ৬টি প্রশ্নের উত্তর দাও। ডান পার্শ্বস্থ সংখ্যা প্রশ্নের পূর্ণমান জ্ঞাপিত।]

১. নাসিমা বেগম কোনো ব্যাংক থেকে ৫,০০০ টাকা জমা রেখে ৩ বছর পর মুনাফাসহ ৬,২০০ টাকা পেয়েছেন।

ক. সরল মুনাফার হার নির্ণয় কর। ২

খ. আরও ২ বছর পর মুনাফা-আসল কত হবে? ৪

গ. ব্যাংকে জমাকৃত টাকা একই হারে চক্রবৃদ্ধি মুনাফায় জমা রাখলে ৩ বছর পর চক্রবৃদ্ধি মূলধন কত হতো? ৪

২. একটি আয়তাকার চৌবাচ্চার দৈর্ঘ্য ৫.৫ মিটার এবং প্রস্থ ৪ মিটার। প্রস্থ উচ্চতার দ্বিগুণ। এর চারপাশ ১.৫×১.৫ মিটার^২ বর্গাকার পাথর দ্বারা বাঁধানো।

ক. চৌবাচ্চাটির তলার ক্ষেত্রফল নির্ণয় কর। ২

খ. উক্ত চৌবাচ্চাটি পানি ভর্তি থাকলে পানির আয়তন কত লিটার এবং ওজন কত কিলোগ্রাম হবে? ৪

গ. চৌবাচ্চার ভিতরের চারপাশের তলা বাঁধাতে কতটি পাথর লাগবে? ৪

খ বিভাগ—বীজগণিত

৩. $x^2 - y^2$, $2x + 2y$ এবং $2x^2y + 2xy^2$ তিনটি বীজগাণিতীয় রাশি।

ক. ১ম রাশির বর্গ নির্ণয় কর। ২

খ. রাশি তিনটির ল.সা.গু. নির্ণয় কর। ৪

গ. ২য় রাশি = ৬ এবং $xy = -4$ হলে $x^3 - y^3$ এর মান নির্ণয় কর। ৪

৪. দুইটি সংখ্যার প্রথমটির তিনগুণের সাথে দ্বিতীয়টি যোগ করলে ১৭ হয়।

আবার প্রথমটির সাথে দ্বিতীয়টির তিনগুণ যোগ করলে ১৯ হয়।

ক. চলকের মাধ্যমে সমীকরণ দুটি গঠন কর। ২

খ. প্রাপ্ত সমীকরণদ্বয়কে প্রতিস্থাপন পদ্ধতিতে সমাধান কর। ৪

গ. সমীকরণদ্বয়কে লেখচিত্রের মাধ্যমে সমাধান কর। ৪

৫. $A = \{x : x, \text{জোড়সংখ্যা এবং } 2 < x < ১৬\}$,

$B = \{x : x, ১২ \text{ এর গুণনীয়ক}\}$

এবং $C = \{x : x, ১৫ \text{ এর মৌলিক গুণনীয়ক}\}$

ক. C সেটকে তালিকা পদ্ধতিতে প্রকাশ কর। ২

খ. $A \cap B$ এবং $A \cup B$ নির্ণয় কর। ৪

গ. দেখাও যে, $A \cap (B \cup C) = (A \cap B) \cup (A \cap C)$ । ৪

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Table of Contents Jsc Math Question Jessore Board

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

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