

# Mathematics

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(Chapter -1) (Number Systems) (Exercise 1.3)

(Class - 9)

## Question 1:

Write the following in decimal form and say what kind of decimal expansion each has:

(i)  $\frac{36}{100}$

(ii)  $\frac{1}{11}$

(iii)  $4\frac{1}{8}$

(iv)  $\frac{3}{13}$

(v)  $\frac{2}{11}$

(vi)  $\frac{329}{400}$

## Answer 1:

(i)  $\frac{36}{100} = 0.3$ , Terminating.

(ii)  $\frac{1}{11} = 0.\overline{09}$ , Recurring & Non-terminating.

(iii)  $4\frac{1}{8} = 4.125$ , Terminating.

(iv)  $\frac{3}{13} = 0.\overline{230769}$ , Recurring & Non-terminating.

(v)  $\frac{2}{11} = 0.\overline{18}$ , Recurring & Non-terminating.

(vi)  $\frac{329}{400} = 0.8225$ , Terminating.

## Question 2:

You know that  $\frac{1}{7} = 0.\overline{142857}$ . Can you predict what the decimal expansions of  $\frac{2}{7}$ ,  $\frac{3}{7}$ ,  $\frac{4}{7}$ ,  $\frac{5}{7}$ ,  $\frac{6}{7}$  are, without actually doing the long division? If so, how?

[Hint: Study the remainders while finding the value of  $\frac{1}{7}$  carefully.]

## Answer 2:

Without actual long division, the decimal expansions of  $\frac{2}{7}$ ,  $\frac{3}{7}$ ,  $\frac{4}{7}$ ,  $\frac{5}{7}$ ,  $\frac{6}{7}$  are as follows:

$$\frac{2}{7} = 2 \times \frac{1}{7} = 2 \times 0.\overline{142857} = 0.\overline{285714}$$

$$\frac{3}{7} = 3 \times \frac{1}{7} = 3 \times 0.\overline{142857} = 0.\overline{428571}$$

$$\frac{4}{7} = 4 \times \frac{1}{7} = 4 \times 0.\overline{142857} = 0.\overline{571428}$$

$$\frac{5}{7} = 5 \times \frac{1}{7} = 5 \times 0.\overline{142857} = 0.\overline{714285}$$

$$\frac{6}{7} = 6 \times \frac{1}{7} = 6 \times 0.\overline{142857} = 0.\overline{857142}$$

## Question 3:

Express the following in the form  $\frac{p}{q}$ , where  $p$  and  $q$  are integers and  $q \neq 0$ .

(i)  $0.\overline{6}$

(ii)  $0.4\overline{7}$

(iii)  $0.\overline{001}$

## Answer 3:

(i)  $0.\overline{6}$

Let  $x = 0.\overline{6}$

$\Rightarrow x = 0.6666 \dots$  ... (i)

Multiplying equation (i) by 10 both sides

$10x = 6.6666 \dots$

# Class 9 Math Solution Bd

**Johann Christian Poggendorff**



## **Class 9 Math Solution Bd:**

*ARUN DEEP'S SELF-HELP TO I.C.S.E. CONCISE MATHEMATICS CLASS 9 : 2025-26 EDITION (BASED ON LATEST ICSE SYLLABUS)* I.S. CHAWLA,2025-04-01 Explore Arun Deep s I C S E Concise Mathematics thoughtfully crafted for Class 9 students This book is designed to provide comprehensive guidance ensuring effective exam preparation and the attainment of higher grades Its purpose is to assist every I C S E student in reaching their best possible grade by offering thorough support throughout the course and valuable advice on revision and exam readiness The material is presented in a clear and concise format featuring ample practice questions for skill reinforcement In strict adherence to the latest syllabus prescribed by the Council for I C S E Examinations from 2026 onwards this book ensures relevance and accuracy Authored by I S Chawla and Munish Sethi it includes step by step answers to the questions found in the ICSE Concise Mathematics textbook published by Selina Publications Elevate your learning experience with this essential resource tailored for academic success

**Mathematics and Mathematicians** Lars Gårding,1998      **Lectures on the Icosahedron and the Solution of Equations of the Fifth Degree** Felix Klein,1888      Fractional Programming I.M. Stancu-Minasian,2012-12-06

Mathematical programming has know a spectacular diversification in the last few decades This process has happened both at the level of mathematical research and at the level of the applications generated by the solution methods that were created To write a monograph dedicated to a certain domain of mathematical programming is under such circumstances especially difficult In the present monograph we opt for the domain of fractional programming Interest of this subject was generated by the fact that various optimization problems from engineering and economics consider the minimization of a ratio between physical and or economical functions for example cost time cost volume cost profit or other quantities that measure the efficiency of a system For example the productivity of industrial systems defined as the ratio between the realized services in a system within a given period of time and the utilized resources is used as one of the best indicators of the quality of their operation Such problems where the objective function appears as a ratio of functions constitute fractional programming problem Due to its importance in modeling various decision processes in management science operational research and economics and also due to its frequent appearance in other problems that are not necessarily economical such as information theory numerical analysis stochastic programming decomposition algorithms for large linear systems etc the fractional programming method has received particular attention in the last three decades      Research in Progress ,1972

**International Index to Periodicals** ,1924 An author and subject index to publications in fields of anthropology archaeology and classical studies economics folklore geography history language and literature music philosophy political science religion and theology sociology and theatre arts      Studies in Mathematics: A brief course in math : for jr. high school teachers Richard Davis Anderson,1966      **The Quarterly Journal of Pure and Applied Mathematics** ,1907

**Contributions to the Theory of the Diophantine Equation  $Ax^N - By^N$**  Adolf af

Ekenstam,1959      **Quarterly Journal of Pure and Applied Mathematics** ,1906      **Referativnyi zhurnal** ,1988      **J.C. Poggendorffs biographisch-literarisches Handwörterbuch zur Geschichte der exacten Wissenschaften ...: bd. (die jahre 1883 bis zur gegenwart umfassend) 1904** Johann Christian Poggendorff,1904      J.C. Poggendorffs biographisch-literarisches Handwhorterbuch zur Geschichte der exacten Wissenschaften ...: bd. (die jahre 1883 bis zur gegenwart umfassend) 1904 Johann Christian Poggendorff,1904      **THE EDUCATIONAL TIMES, AND JOURNAL OF THE COLLEGE PRECEPTORS.** c.f hodgson and sons,2, gough square,1880      J.C. Poggendorffs biographisch-literarisches Handwörterbuch zur Geschichte der exacten Wissenschaften ...: bd. (1858 bis 1883) 1898 Johann Christian Poggendorff,1898  
**International Catalogue of Scientific Literature** ,1906      *International Catalogue of Scientific Literature, 1901-1914* ,1907      Berichte der Deutschen Rheologischen Gesellschaft e.V. mit Dokumentation Rheologie Deutsche Rheologische Gesellschaft,1964      *Educational Times* ,1880      **The Psychological Register** Carl Murchison,1929

Class 9 Math Solution Bd: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous captivating novels enthralling the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the fascinating narratives that have charmed audiences this year. Class 9 Math Solution Bd : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens' "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and thrilling novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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## Table of Contents Class 9 Math Solution Bd

1. Understanding the eBook Class 9 Math Solution Bd
  - The Rise of Digital Reading Class 9 Math Solution Bd
  - Advantages of eBooks Over Traditional Books
2. Identifying Class 9 Math Solution Bd
  - 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 Class 9 Math Solution Bd
  - User-Friendly Interface
4. Exploring eBook Recommendations from Class 9 Math Solution Bd
  - Personalized Recommendations
  - Class 9 Math Solution Bd User Reviews and Ratings
  - Class 9 Math Solution Bd and Bestseller Lists
5. Accessing Class 9 Math Solution Bd Free and Paid eBooks
  - Class 9 Math Solution Bd Public Domain eBooks
  - Class 9 Math Solution Bd eBook Subscription Services
  - Class 9 Math Solution Bd Budget-Friendly Options
6. Navigating Class 9 Math Solution Bd eBook Formats
  - ePub, PDF, MOBI, and More
  - Class 9 Math Solution Bd Compatibility with Devices
  - Class 9 Math Solution Bd Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Class 9 Math Solution Bd
  - Highlighting and Note-Taking Class 9 Math Solution Bd
  - Interactive Elements Class 9 Math Solution Bd
8. Staying Engaged with Class 9 Math Solution Bd

- Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Class 9 Math Solution Bd
9. Balancing eBooks and Physical Books Class 9 Math Solution Bd
- Benefits of a Digital Library
  - Creating a Diverse Reading Collection Class 9 Math Solution Bd
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Class 9 Math Solution Bd
- Setting Reading Goals Class 9 Math Solution Bd
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Class 9 Math Solution Bd
- Fact-Checking eBook Content of Class 9 Math Solution Bd
  - 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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