

SUBJECT: MATHEMATICS
CLASS : IX

MAX. MARKS : 80
DURATION : 3 HRS

General Instruction:

- (i) All questions are compulsory.
- (ii) This question paper contains 30 questions divided into four Sections A, B, C and D.
- (iii) Section A comprises of 6 questions of 1 mark each. Section B comprises of 6 questions of 2 marks each. Section C comprises of 10 questions of 3 marks each and Section D comprises of 8 questions of 4 marks each.
- (iv) There is no overall choice. However, an internal choice has been provided in two questions in 1 mark each, two questions in 2 marks each, four questions of 3 marks each and three questions of 4 marks each. You have to attempt only one of the alternatives in all such questions.
- (v) Use of Calculators is not permitted

SECTION – A

Questions 1 to 6 carry 1 mark each.

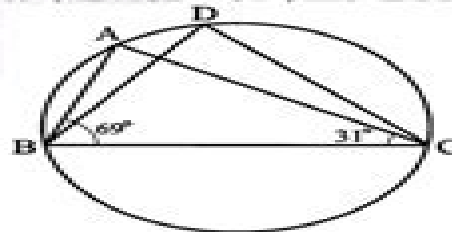
1. Find the total surface area of a hemisphere of radius 10 cm. (Use $\pi = 3.14$)
OR
Find the height of cone, if its slant height is 34 cm and base diameter is 32 cm.
2. If the point (3, 4) lies on the graph of the equation $3y = ax + 7$, find the value of a.

3. Simplify: $\frac{\sqrt{32} + \sqrt{48}}{\sqrt{8} + \sqrt{12}}$

OR

Find the value of $\sqrt{3^{-2}}$.

4. In a bag, there are 100 bulbs out of which 30 are defective ones. A bulb is taken out of the bag at random. Find the probability of the selected bulb to be a good one.
5. If its perimeter of an equilateral triangle is 180 cm, what will be its area?
6. In the below figure, $\angle ABC = 69^\circ$, $\angle ACB = 31^\circ$, find $\angle BDC$.



SECTION – B

Questions 6 to 12 carry 2 marks each.

7. A river 3 m deep and 40 m wide is flowing at the rate of 2 km per hour. How much water will fall into the sea in a minute?

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Clifford Lane



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APC Question Bank and Sample Papers in Mathematics for Class 12 - Arya Publishing Company M.L. Aggarwal, Question Bank and Sample Papers in Mathematics for Class XII by Prof M L Aggarwal has been written according to the changed style of question paper relevant for 2015 Board Examinations The Salient Features of the book are Latest Sample Papers issued by the CBSE for 2015 Examinations with solutions Chapterwise Basic Concepts and Important Results Chapterwise Assignments for Practice 1 mark 4 marks 6 marks Chapterwise Questions from Previous Years Board Papers Ten Sample Papers for Practice 4 Solved 6 Unsolved CBSE Examination Paper 2014 Fully Solved Delhi and Outside Delhi

The Evolution of Research on Teaching Mathematics Agida Manizade,Nils Buchholtz,Kim Beswick,2023-08-10 This open access book investigates current issues related to the evolution of research on teaching mathematics and examines up to thirty years of presage process product research PPPR in mathematics with respect to conceptualization instrumentation and design The book discusses the theoretical and methodological challenges associated with PPPR critically reviews current research and explores the likely direction of further developments to identify future paths for research on high quality mathematics teaching in the digital era Subjects that are covered in this work focus on the relationships between 1 student learning outcomes measured upon completion of the mathematics teaching 2 student learning activities in the classroom 3 interactive mathematics teacher activities and best practices in mathematics classrooms conducted in the presence of students 4 pre post active mathematics teacher activities such as planning assessment and other teaching related activities outside of the classroom 5 mathematics teachers competencies knowledge and skills and 6 mathematics teachers characteristics including beliefs attitudes and motivation This book discusses the evolution of such research in mathematics teaching and teacher education in the digital era and is of interest to researchers exploring the field of mathematics teaching and mathematics teacher education as well as educators *Teaching and Learning Secondary School Mathematics* Ann Kajander,Jennifer Holm,Egan J Chernoff,2018-10-24 This volume brings together recent research and commentary in secondary school mathematics from a breadth of contemporary Canadian and International researchers and educators It is both representative of mathematics education generally as well as unique to the particular geography and culture of Canada The chapters address topics of broad applicability such as technology in learning mathematics recent interest in social justice contexts in the learning of mathematics as well as Indigenous education The voices of classroom practitioners the group ultimately responsible for implementing this new vision of mathematics teaching and learning are not forgotten Each section includes a chapter written by a classroom teacher making this volume unique in its approach We have much to learn from one another and this volume takes the stance that the development of a united vision supported by both research and professional dialog provides the first step *Arihant CBSE Mathematics (Basic) Term 2 Class 10 for 2022 Exam (Cover Theory and MCQs)* Vishal Kumar Mehta,Alok Sharma,2021-11-20 With the newly introduced 2 Term Examination Pattern

CBSE has eased out the pressure of preparation of subjects and cope up with lengthy syllabus Introducing Arihant's CBSE TERM II 2022 Series the first of its kind that gives complete emphasis on the rationalized syllabus of Class 9th to 12th The all new CBSE Term II 2022 Mathematics Basic of Class 10th provides explanation and guidance to the syllabus required to study efficiently and succeed in the exams The book provides topical coverage of all the chapters in a complete and comprehensive manner Covering the 50% of syllabus as per Latest Term wise pattern 2021-22 this book consists of 1 Complete Theory in each Chapter covering all topics 2 Case Based Short and Long Answer Type Question in each chapter 3 Coverage of NCERT NCERT Exemplar Board Exams Questions 4 Complete and Detailed explanations for each question 5 3 Practice papers based on the entire Term II Syllabus Table of Content Quadratic Equations Arithmetic Progressions Circles Constructions Applications for Trigonometry Surface Areas and Volumes Statistics Practice Papers 1-3

Achieving Your Best in Math Class Charles P. Kost II, 2013-02-28 This collection of self-guided lessons includes the essential skills that are needed to be successful in any mathematics class at the middle school high school and post secondary levels Students who are struggling in math class as well as students who want to maximize their abilities in class will find these easy to implement strategies effective and practical Each lesson includes practice problems to master the concepts and employ them into everyday practice The strategies are divided into three units each focusing on different aspects of achievement The first unit includes organization note taking and techniques to study mathematics Unit II includes problem solving techniques that can be applied in any mathematics class and the last unit provides techniques to maximize scores on any assessment from quizzes to final exams and even the SATs

Teaching to Change the World Jeannie Oakes, Martin Lipton, Lauren Anderson, Jamy Stillman, 2018-01-29 Teaching to Change the World is an up to the moment engaging social justice oriented introduction to education and teaching and the challenges and opportunities they present Both foundational and practical the chapters are organized around conventional topics but in a way that consistently integrates a coherent story that explains why schools are as they are Taking the position that a hopeful democratic future depends on ensuring that all students learn the text pays particular attention to inequalities associated with race social class language gender and other social categories and explores teachers role in addressing them This thoroughly revised fifth edition remains a vital introduction to the profession for a new generation of teachers who seek to become purposeful knowledgeable practitioners in our ever changing educational landscape for those teachers who see the potential for education to change the world Features and Updates of the New Edition Fully updated Chapter 1 The U S Schooling Dilemma reflects our current state of education after the 2016 U S presidential election First person observations from teachers including first year teachers continue to offer vivid authentic pictures of what teaching to change the world means and involves Additional coverage of the ongoing effects of Common Core highlights the heated public discourse around teaching and teachers and charter schools Attention to diversity and inclusion is treated as integral to all chapters woven throughout rather than tacked on as separate units Digging Deeper

resources on the new companion website include concrete resources that current and future teachers can use in their classrooms Tools for Critique provides instructors and students questions prompts and activities aimed at encouraging classroom discussion and particularly engaging those students least familiar with the central tenets of social justice education

CBSE CLASS 9TH SUCCESS FOR ALL MATHEMATICS Munish Sethi, Success for All Mathematics Class 9 CBSE is a well structured and comprehensive textbook designed to build a strong foundation in mathematical concepts as per the CBSE curriculum The book follows a student centric approach with clear explanations step by step solutions and a wide variety of practice problems to enhance problem solving skills and logical thinking It aims to make Mathematics enjoyable and accessible by connecting concepts with real life applications and providing plenty of opportunities for practice and self assessment Key Features Concept Clarity Each chapter begins with definitions rules and explanations illustrated through solved examples ensuring a clear understanding of concepts Exercise Based Learning Multiple levels of practice exercises ranging from basic to advanced help reinforce learning and build confidence Topic Wise Coverage Includes all key topics like Number System Fractions and Decimals Algebra Geometry Mensuration Data Handling and more as per the latest CBSE syllabus Objective Type Questions Includes MCQs Fill in the Blanks True False and Assertion Reasoning questions to strengthen conceptual understanding and exam readiness Higher Order Thinking Skills HOTS Special questions designed to develop analytical thinking and application based problem solving Mental Maths and Fun Activities Enhances mental calculation skills and keeps learning engaging through puzzles and math based activities Assessment Tools Revision exercises worksheets and CBSE based model test papers are provided for regular practice and self evaluation **2024-25**

CTET/TET Class 1 to V Mathematics Solved Papers YCT Expert Team , 2024 25 CTET TET Class 1 to V Mathematics Solved Papers 864 1495 E This book contains 173 sets of the previous year s papers and 5190 objective questions *Bairn - CBSE - Success for All - Mathematics (Basic) - Class 10 for 2021 Exam: (Reduced Syllabus)* Munish Sethi, Success for All Covers complete theory practice and assessment of Mathematics Basic for Class 10 The guide has been divided in 15 chapters giving coverage to the syllabus Each Chapter is supported by detailed theory illustrations all types of practice questions Special focus on New pattern objective questions Every Chapter accompanies Basic Concepts Topicwise NCERT Questions and Answers exam practice and self assessment for quick revisions The current edition of Success for All for Class 10th is a self Study guide that has been carefully and consciously revised by providing proper explanation guidance and strictly following the latest CBSE syllabus issued on 31 March 2020 The whole syllabus of the book is divided into 15 chapters and each Chapter is further divided into chapters To make students completely ready for exams This book is provided with detailed theory Practice Questions in all chapters Every Chapter in this book carries summary exam practice and self assessment at the end for quick revision This book provides 3 varieties of exercises topic exercise for assessment of topical understanding Each topic of the Chapter has topic exercise NCERT Questions and Answers it contains all the

questions of NCERT with detailed solutions and exam practice It contains all the Miscellaneous questions like MCQs true and false fill in the blanks VSAQ s SAQ s LAQ s Well explained answers have been provided to every question that is given in the book All in One Mathematics for CBSE Class 10 has all the material for learning understanding practice assessment and will surely guide the students to the way of success

Math Instruction for Students with Learning Problems Susan Perry Gurganus, 2017-02-24 Math Instruction for Students with Learning Problems Second Edition provides a research based approach to mathematics instruction designed to build confidence and competence in pre and in service PreK 12 teachers This core textbook addresses teacher and student attitudes toward mathematics as well as language issues specific mathematics disabilities prior experiences and cognitive and metacognitive factors The material is rich with opportunities for class activities and field extensions and the second edition has been fully updated to reference both NCTM and CCSSM standards throughout the text and includes an entirely new chapter on measurement and data analysis

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web this guided inquiry activity has two learning goals students will be able to students will be able to 1 explain the difference between atomic mass and mass number and 2 calculate average atomic mass from percent abundance and isotopic mass

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web find the average atomic mass of an element given the abundance and mass of its isotopes predict how the mass and name of an isotope will change given a change in the number of protons neutrons or electrons

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