

Marking Scheme
Class X Session 2023-24
MATHEMATICS STANDARD (Code No.041)

TIME: 3 hours

MAX.MARKS: 80

SECTION A		
Section A consists of 20 questions of 1 mark each.		
1.	(b) xy^2	1
2.	(b) 1 zero and the zero is '3'	1
3.	(b) $\frac{a_1}{a_2} = \frac{b_1}{b_2} \neq \frac{c_1}{c_2}$	1
4.	(c) 2 distinct real roots	1
5.	(c) 7	1
6.	(a) 1:2	1
7.	(d) infinitely many	1
8.	(b) $\frac{ac}{b+c}$	1
9.	(b) 100°	1
10.	(d) 11 cm	1
11.	(c) $\frac{\sqrt{b^2 - a^2}}{b}$	1
12.	(d) $\cos A$	1
13.	(a) 60°	1
14.	(a) 2 units	1
15.	(a) 10m	1
16.	(b) $\frac{4-\pi}{4}$	1
17.	(b) $\frac{22}{46}$	1
18.	(d) 150	1
19.	(a) Both assertion (A) and reason (R) are true and reason (R) is the correct explanation of assertion (A)	1
20.	(c) Assertion (A) is true but reason (R) is false.	1
SECTION B		
Section B consists of 5 questions of 2 marks each.		
21.	<p>Let us assume, to the contrary, that $\sqrt{2}$ is rational. So, we can find integers a and b such that $\sqrt{2} = \frac{a}{b}$ where a and b are coprime. So, $b\sqrt{2} = a$. Squaring both sides, we get $2b^2 = a^2$. Therefore, 2 divides a^2 and so 2 divides a. So, we can write $a = 2c$ for some integer c. Substituting for a, we get $2b^2 = 4c^2$, that is, $b^2 = 2c^2$. This means that 2 divides b^2, and so 2 divides b. Therefore, a and b have at least 2 as a common factor. But this contradicts the fact that a and b have no common factors other than 1. This contradiction has arisen because of our incorrect assumption that $\sqrt{2}$ is rational. So, we conclude that $\sqrt{2}$ is irrational.</p>	<p>$\frac{1}{2}$</p> <p>$\frac{1}{2}$</p> <p>$\frac{1}{2}$</p> <p>$\frac{1}{2}$</p>

February 2013 Maths Mark Scheme

Arthur James Wells



February 2013 Maths Mark Scheme:

Conceptual Maths Peter Mattock, 2023-04-05 Written by Peter Mattock Conceptual Maths Teaching about rather than just how to do mathematics in schools aims to empower teachers to support students on a comprehensive and coherent journey through school mathematics Showcasing the best models metaphors and representations it provides excellent examples explanations and exercises that can be used across the curriculum Concepts are at the heart of the study of mathematics They are the ideas that remain constant whenever they are encountered but which combine and build upon each other to create the mathematical universe It is the structure of each concept that gives rise to the procedures that are used in calculation and problem solving and by learning about these structures a learner can make sense of how different processes work and use them flexibly as need demands In his first book Visible Maths Peter Mattock focused on the use of representations and manipulatives as images and tools and how this can provide a window into some of these mathematical structures His aim in Conceptual Maths is to go deeper beyond the procedures and to shed greater light on the structures of the subject's different concepts The book explores how a variety of visual tools and techniques can be used in the classroom to deepen pupils' understanding of mathematical structures concepts and operations including number addition and subtraction multiplication and multiples division and factors proportionality functionality measures accuracy probability shape and transformation and vectors among many others In so doing Peter equips teachers with the confidence and practical know-how to help learners assimilate knowledge of mathematical concepts into their schema and take their learning to the next level Containing numerous full colour diagrams and models to illustrate the conceptual takeaways and teaching techniques discussed Conceptual Maths also includes a glossary covering the key mathematical terms Suitable for teachers of maths in primary secondary and post-16 settings *Educart CBSE Question Bank Class 10 Mathematics 2025-26 on new Syllabus 2026 (Introducing Unit Test Worksheets)* Educart, 2025-04-26 Book Structure Chapter-wise coverage with practice Qs and Unit Test Worksheets How Good are Educart Question Banks Based on the NCERT rationalised syllabus Based on CBSE guidelines you study exactly what you need for exams Includes real life examples to make learning practical and relatable Case-based and assertion-reason questions for deeper understanding Covers previous board exam questions and those from the DIKSHA platform Includes detailed solutions for NCERT Exemplar questions to boost confidence Topper's Corner shares expert guidance to avoid common mistakes Why Choose this Book Most Recommended CBSE Reference Book for Chapter-wise Study *22 Topic-wise CTET Paper 1 Previous Year Solved Papers (2024 - 2011) Class 1 - 5 Teachers | Child Development & Pedagogy, English, Hindi, EVS & Mathematics* Disha Experts, 2024-10-22 The First edition of the book 22 TOPIC-WISE CTET Paper 1 Solved Papers 2024-2011 English Edition contains detailed Solutions to the Past 22 Solved Papers of the CTET exam from 2011 to 2024 The past 22 CTET Solved papers included are June 2011 Jan Section II mathematics has 15 Topics Section III EVS has 13 Topics Section IV English 11 Topics Section V Hindi has 10 Topics The

detailed solutions are provided immediately after each topic Solutions are provided for each question The languages covered in the tests are English 1st language and Hindi 2nd language The book is 100% useful for UPTET HTET MPTET CGTET UKTET HPTET BTET PTET and other STET Exam **One Liner PEDAGOGY Master Course for CTET & STET's Paper 1 - Child Development, EVS, Mathematics, English & Hindi Languages | Based on Previous Year Questions PYQs | For CTET, State TET & Super TET Exams 2023** , One Liner PEDAGOGY Master Course for CTET 700 One Liners 4 English Language 7 Chapters 700 One Liners 5 Hindi Language 9 Chapters 700 One Liners In all the book contains around 5000 One Liners from 35 CTET 20 STET Papers The past CTET papers covered are 21 sets of CTET 2021 22 along with 14 more papers from 2011 2021 Thus 35 Papers in all The book further covers 20 past STET papers including UPTET REET UTET MPTET HTET BTET WBTET APTET Karnataka TET TNTET This book will not only help in quick revision and practice but will also define the syllabus and range of questions that can be asked in the pedagogy part of the various subjects in these exams In nutshell this is a must have book for all CTET STET and other Teaching based Examinations where the focus is on pedagogy Educart CBSE Question Bank Class 10 Mathematics 2024-25 (As per latest CBSE Syllabus 23 Mar 2024) Educart,2024-06-17 What You Get Time Management ChartsSelf evaluation ChartCompetency based Q sMarking Scheme Charts Educart Mathematics Class 10 Strictly based on the latest CBSE CurriculumSpecial focus on Competency based Questions including all New Pattern Q sSimplified NCERT theory with diagram flowcharts bullet points and tablesIncludes Real life Examples for reliability to every NCERT conceptTopper Answers of past 10 year board exams along with Marks Breakdown Tips4 Solved Sample Papers as per the latest Sample paper design released with syllabus Why choose this book You can find the simplified complete with diagrams flowcharts bullet points and tablesBased on the revised CBSE pattern for competency based questionsEvaluate your performance with the self evaluation charts **Oswaal CBSE 10 Years Solved Papers Class 12 Commerce - English Core | Mathematics | Accountancy | Economics & Business Studies Book For 2025 Board Exam** Oswaal Editorial Board,2024-04-19 Description of the Product 100 % Updated for 2024 25 with latest CBSE Board paper 2024 Valuable Exam Insights with Out of syllabus Questions highlighted 100% Exam Readiness with Toppers Board Marking Scheme Answers Concept Clarity with Detailed Answers Crisp Revision with Mind Maps Revision Notes **OECD Development Pathways Multi-dimensional Review of Uruguay Volume 2. In-depth Analysis and Recommendations** OECD,2016-03-04 This series helps countries to identify and overcome binding constraints to achieving higher levels of well being and more equitable and sustainable growth The Development Pathways are based on Multi dimensional Country Reviews which take into account policy interactions and the Parliamentary Debates (Hansard). Great Britain. Parliament. House of Commons,2013 **The Times Index** ,2013-07 Indexes the Times Sunday times and magazine Times literary supplement Times educational supplement Time educational supplement Scotland and the Times higher education supplement Annual Report India. Ministry of Defence,2011 **Reports from Commissioners** Great

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