

**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
2.	(b) 1 zero and the zero is '3'
3.	(b) $\frac{a_1}{a_2} = \frac{b_1}{b_2} \neq \frac{c_1}{c_2}$
4.	(c) 2 distinct real roots
5.	(c) 7
6.	(a) 1:2
7.	(d) infinitely many
8.	(b) $\frac{ac}{b+c}$
9.	(b) 100°
10.	(d) 11 cm
11.	(c) $\frac{\sqrt{b^2 - a^2}}{b}$
12.	(d) $\cos A$
13.	(a) 60°
14.	(a) 2 units
15.	(a) 10m
16.	(b) $\frac{4 - \pi}{4}$
17.	(b) $\frac{22}{46}$
18.	(d) 150
19.	(a) Both assertion (A) and reason (R) are true and reason (R) is the correct explanation of assertion (A)
20.	(c) Assertion (A) is true but reason (R) is false.
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.</p> <p>So, $b\sqrt{2} = a$. Squaring both sides, we get $2b^2 = a^2$.</p> <p>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>

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Learning to Teach in the Secondary School Susan Capel, Marilyn Leask, Sarah Younie, Elizabeth Hidson, Julia Lawrence, 2022-07-29 The market leading text for beginning teachers on all undergraduate postgraduate and school based routes to QTS this is an essential introduction to the key skills and knowledge needed to become a successful teacher Offering advice on all aspects of teaching and learning this ninth edition has been thoroughly updated to reflect changes in the field and covers key new topics including the science of learning online pedagogies and working with your mentor There are also expanded units on diversity and inclusion and teacher wellbeing The text includes a wealth of examples and tasks to support you in successfully applying theory to practice and in critically reflecting on and analysing your practice to maximise pupil learning The wide range of pedagogical features supports both school and university based work up to Masters level Written by experts in the field the 41 concise units are underpinned by evidence informed practice and focus on what you need to know to thrive in the classroom including lesson planning curriculum managing behaviour online lessons and digital resources effective communication with pupils how pupils learn assessment marking and feedback diversity and inclusion special educational needs and disabilities SEND managing stress workload and time applying for jobs developing as a professional and networking The book is extended and enhanced through a companion website that includes Animated explainer videos to introduce and summarise key topics A selection of downloadable and editable tables and figures from the book so that the most practical elements can be taken out of study and into practice Additional material and interactive features to support selected units such as focus questions for lesson observations and flashcards to help analyse student behaviour Bonus content including Starting to Teach chapters and a mapping document supporting you to make links between the ninth edition chapters and key teaching standards Supported by the subject specific titles in the Learning to Teach Subjects in the Secondary School and A Practical Guide to Teaching Subjects in the Secondary School Series it is an essential purchase for every aspiring secondary school teacher

The Assessment Challenge in Statistics Education

Iddo Gal, Joan B. Garfield, 1997 This book discusses conceptual and pragmatic issues in the assessment of statistical knowledge and reasoning skills among students at the college and precollege levels and the use of assessments to improve instruction It is designed primarily for academic audiences involved in teaching statistics and mathematics and in teacher education and training The book is divided in four sections 1 Assessment goals and frameworks 2 Assessing conceptual understanding of statistical ideas 3 Innovative models for classroom assessments and 4 Assessing understanding of probability "The" Athenaeum, 1895 The Journal of Education, 1898 The Times Index, 2003 Indexes the Times Sunday times and magazine Times literary supplement Times educational supplement Times educational supplement Scotland and the Times higher education supplement Army and Navy Gazette, 1880 Athenaeum, 1872

Grading for Growth David Clark, Robert Talbert, 2023-07-03 Are you satisfied with your current and traditional grading

system Does it accurately reflect your students learning and progress Can it be gamed Does it lead to grade grubbing and friction with your students The authors of this book two professors of mathematics with input from colleagues across disciplines and institutions offer readers a fundamentally more effective and authentic approach to grading that they have implemented for over a decade Recognizing that traditional grading penalizes students in the learning process by depriving them of the formative feedback that is fundamental to improvement the authors offer alternative strategies that encourage revision and growth Alternative grading is concerned with students eventual level of understanding This leads to big changes Students take time to review past failures and learn from them Conversations shift from why did I lose a point for this to productive discussions of content and process Alternative grading can be used successfully at any level in any situation and any discipline in classes that range from seminars to large multi section lectures This book offers a comprehensive introduction to alternative grading beginning with a framework and rationale for implementation and evidence of its effectiveness The heart of the book includes detailed examples including variations on Standards Based Grading Specifications Grading and ungrading of how alternative grading practices are used in all kinds of classroom environments disciplines and institutions with a focus on first hand accounts by faculty who share their practices and experience The book includes a workbook chapter that takes readers through a step by step process for building a prototype of their own alternatively graded class and ends with concrete practical time tested advice for new practitioners The underlying principles of alternative grading involve Evaluating student work using clearly defined and context appropriate content standards Giving students helpful actionable feedback Summarizing the feedback with marks that indicate progress rather than arbitrary numbers Allowing students to revise without penalty using the feedback they receive until the standards are met or exceeded This book is intended for faculty interested in exploring alternative forms of learning assessment as well as those currently using alternative grading systems who are looking for ideas and options to refine practice

The Mechanics' Magazine and Journal of Science, Arts, and Manufactures, 1872 **Nature**, 1884 **The Colonial Office List for ...** Great Britain. Colonial Office, 1924 *Colonial Office List ...*, 1923 *Nature* Sir Norman Lockyer, 1878 Current Literature, 1928 Journal of Education and School World, 1884 **The Scottish Educational Journal**, 1919 **Athenaeum and Literary Chronicle**, 1878 **Applied Mechanics Reviews**, 1989 **Appletons' Journal of Literature, Science and Art**, 1870 **Joint Volumes of Papers Presented to the Legislative Council and Legislative Assembly** New South Wales. Parliament, 1905 Includes various departmental reports and reports of commissions Cf Gregory Serial publications of foreign governments 1815 1931

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