

Grade 12 Mathematical Literacy: Question Paper 1

MARKS: 150

TIME: 3 hours

QUESTION 1

- 1.1 On a given day, the bank advertises the Rand : Euro exchange rate as 1 : 0,0868.
How many Euros can you buy with R 5 000,00 on this day? (3)
- 1.2 A house plan is drawn using a 1 : 75 scale
1.2.1 The front door is 2,4 cm tall on the plan. How tall is the door in reality? (3)
1.2.2 The plot of land on which the house is being built is 14 m wide. What is the corresponding length on the plan? (3)
- 1.3 The conversion table below is used to convert between the shoe sizes of different systems. Refer to this table to answer the questions that follow.

System		Sizes												
Europe		35	35½	36	37	37½	38	38½	39	40	41	42	43	44
Japan	M	21,5	22	22,5	23	23,5	24	24,5	25	25,5	26	26,5	27,5	28,5
	W	21	21,5	22	22,5	23	23,5	24	24,5	25	25,5	26	27	28
U.K.	M	3	3½	4	4½	5	5½	6	6½	7	7½	8	8½	9
	W	2½	3	3½	4	4½	5	5½	6	6½	7	7½	8	8½
Inches		9	9¼	9½	9¾	9½	9¾	9¾	9¾	10	10¼	10½	10¾	10¾
Centimeters		22,8	23,1	23,5	23,8	24,1	24,5	24,8	25,1	25,4	25,7	26	26,7	27,3

- 1.3.1 What is the European equivalent of a UK (W) size 5 shoe? (2)
1.3.2 What shoe size would a Japanese man with a size 24 foot ask for in the U.K. (2)
1.3.3 The standard inch : cm conversion rate is 1 : 2,54 cm. According to the table 9¼ inches = 23,8 cm. Is this correct? Show your working (3)
- 1.4 The box and whisker plot below represents the batting averages of the 160 cricketers who have batted in T20 matches since 1 January 2009. Answer the questions that are based on the plot.



- 1.4.1 What is the name given to the two data points with value 57 and 57,33? (2)
1.4.2 How many players have a batting average that is less than 6,25? (2)
1.4.3 What must a batsman's batting average be for him to be in the top quartile? (2)
1.4.4 Jaques Kallis is the South African with the highest batting average. If his average is 48,4, how does he compare with the other batsmen? (2)

[24]

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coolest educational trends Universal Access in Human-Computer Interaction. Users and Context Diversity Margherita

Antona,Constantine Stephanidis,2016-07-04 The three volume set LNCS 9737 9739 constitutes the refereed proceedings of

the 10th International Conference on Universal Access in Human Computer Interaction UAHCI 2016 held as part of the 10th

International Conference on Human Computer Interaction HCII 2016 in Toronto ON Canada in July 2016 jointly with 15 other

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The Encyclopedia of Middle Grades Education (2nd ed.) Steven B. Mertens, Micki M. Caskey, Nancy Flowers, 2016-08-01

The second edition of *The Encyclopedia of Middle Grades Education* has been revised updated and expanded since its original publication in 2005. The Encyclopedia is a comprehensive overview of the field; it contains alphabetically organized entries that address important concepts, ideas, terms, people, organizations, publications, and research studies specifically related to middle grades education. This edition contains over 210 entries from nearly 160 expert contributors; this is a 25% increase in the number of entries over the first edition. The Encyclopedia is aimed at a general audience including undergraduate students in middle level teacher preparation programs, graduate students, higher education faculty, and practitioners and administrators. The comprehensive list of entries are comprised of both short entries (500 words) and longer entries (2000 words). A significant number of entries appearing in the first edition have been revised and updated. Citations and references are provided for each entry.

Effective Grading Practices for Secondary Teachers Dave Nagel, 2015-03-04

Enact innovative grading systems that more accurately describe student progress. This book challenges traditional grading practices and provides alternatives that can have direct impact on student success. By making subtle shifts toward standards-based grading systems, schools can reduce unnecessary course failures, provide students and their families a more accurate picture of current progress, and increase opportunities for success. The author offers a range of grading reform strategies that are built from practical frameworks that are effective and simple to adapt. Among the many strengths of this book are: Practical application of existing research and evidence base for effective secondary grading reforms; A framework for schools and districts to apply and adapt failure prevention strategies such as early failure detection, Amnesty Days, and meaningful stipulated second chance opportunities for students to reach mastery; Functional strategies and actions for shifting toward standards-based referenced grading without entirely abandoning letter grades; Countering resistance to change through a clearly articulated plan for conducting school-wide and classroom-level action research around the effectiveness of new or adjusted grading practices; Informative and pragmatic: this book is spot on with analysis of this elephant in the room issue. Nagel uses both empathy and humor in getting to the heart of a process to generate real solutions while underscoring the ultimate need for teacher voice in any successful implementation. He provides ready-made strategies for real impactful change. I'm left hopeful that feedback will rule the day. Bruce Potter, Superintendent, Berkshire UFSD. Nagel offers an insightful and articulate voice to secondary improvement and alignment through grading practices. His tried and true methods through working with real districts provides a starting place and examples for others to follow. A must read for anyone serious about ensuring student engagement through meaningful feedback. Debra K. Howe, Superintendent, Tri Creek School Corporation.

The City Record New York (N.Y.), 1918

Innovative Approaches in Early Childhood

Mathematics Oliver Thiel, Bob Perry, 2020-07-29. The chapters in this book investigate and reflect on many of the issues and

challenges raised by the current trends and tensions in early childhood mathematics education They emanate from seven countries Australia Northern Ireland Norway Portugal Spain Sweden and Switzerland Ever since Fr bel invented the kindergarten mathematics has been a part of early childhood pedagogy Mathematics is an important part of children s daily life which helps them to understand the world around them Nowadays early childhood mathematics is in the international spotlight Partly this is the result of myriad studies that seem to show that early childhood mathematics achievement is a strong predictor of success or otherwise in future school mathematics other school subjects and life itself Another influence on early childhood mathematics education is the advent of the political and advocacy juggernaut known as STEM Science Technology Engineering and Mathematics Early childhood mathematics education is important for children s present and future learning This book provides a strong collection of current research for the consideration of all in the early childhood education field It was originally published as a special issue of the European Early Childhood Education Research Journal

Assessing the Nation's Report Card Chester E. Finn, 2022-08-23 Assessing the Nation s Report Card examines the history of the National Assessment of Educational Progress NAEP and outlines plans for improving and modernizing the organization Educational policy analyst Chester E Finn Jr imparts a rare inside analysis of the evolution of the NAEP program at key moments in its history and provides a firsthand perspective of crucial decisions and core goals that have helped shape it The result is a revealing survey of the US s most influential source of data on K 12 achievement Assessing the Nation s Report Card offers readers an in depth understanding and appreciation of NAEP as well as an examination of its shortcomings its controversies and its current issues The book explores why NAEP is considered the gold standard of educational assessments yet is much lesser known than other types of standardized testing Finn underscores the promise of applying the results in addressing achievement gaps boosting federal accountability and driving education reform and policy He also discloses how the data are collected and what the results can and cannot tell us For more than 50 years this ambitious federal testing program has informed the decisions of policy makers and educational leaders as they advocate for educational improvements in the US Acknowledging the nation s evolving need for actionable information about students and schools Finn provides an assured and rare overview of the existing program and proposes possibilities for the future **32nd European Symposium**

on Computer Aided Process Engineering Ludovic Montastruc, Stephane Negny, 2022-06-30 32nd European Symposium on Computer Aided Process Engineering ESCAPE 32 contains the papers presented at the 32nd European Symposium of Computer Aided Process Engineering ESCAPE event held in Toulouse France It is a valuable resource for chemical engineers chemical process engineers researchers in industry and academia students and consultants for chemical industries who work in process development and design Presents findings and discussions from the 32nd European Symposium of Computer Aided Process Engineering ESCAPE event Test Equating, Scaling, and Linking Michael J. Kolen, Robert L.

Brennan, 2014-01-13 This book provides an introduction to test equating scaling and linking including those concepts and

practical issues that are critical for developers and all other testing professionals In addition to statistical procedures successful equating scaling and linking involves many aspects of testing including procedures to develop tests to administer and score tests and to interpret scores earned on tests Test equating methods are used with many standardized tests in education and psychology to ensure that scores from multiple test forms can be used interchangeably Test scaling is the process of developing score scales that are used when scores on standardized tests are reported In test linking scores from two or more tests are related to one another Linking has received much recent attention due largely to investigations of linking similarly named tests from different test publishers or tests constructed for different purposes In recent years researchers from the education psychology and statistics communities have contributed to the rapidly growing statistical and psychometric methodologies used in test equating scaling and linking In addition to the literature covered in previous editions this new edition presents coverage of significant recent research In order to assist researchers advanced graduate students and testing professionals examples are used frequently and conceptual issues are stressed New material includes model determination in log linear smoothing in depth presentation of chained linear and equipercentile equating equating criteria test scoring and a new section on scores for mixed format tests In the third edition each chapter contains a reference list rather than having a single reference list at the end of the volume The themes of the third edition include the purposes of equating scaling and linking and their practical context data collection designs statistical methodology designing reasonable and useful equating scaling and linking studies importance of test development and quality control processes to equating equating error and the underlying statistical assumptions for equating

An Age of Accountability John L.

Rury, 2023-10-13 An Age of Accountability highlights the role of test based accountability as a policy framework in American education from 1970 to 2020 For more than half a century the quest to hold schools and educators accountable for academic achievement has relied almost exclusively on standardized assessment The theory of change embedded in almost all test based accountability programs held that assessment with stipulated consequences could lead to major improvements in schools This was accomplished politically by proclaiming lofty goals of attaining universal proficiency and closing achievement gaps which repeatedly failed to materialize But even after very clear disappointments no other policy framework has emerged to challenge its hegemony The American public today has little confidence in institutions to improve the quality of goods and services they provide especially in the public sector As a consequence many Americans continue to believe that accountability remains a vital necessity even if educators and policy scholars disagree

Teaching Psychology
Douglas A. Bernstein, Sue Frantz, Stephen L. Chew, 2019-11-08 This thoroughly revised third edition of Teaching Psychology synthesizes the latest pedagogical research on effective teaching and translates it into recommendations for classroom application It also takes into account the many changes in the teaching landscape that have taken place in recent years Covering key topics such as planning a course choosing teaching methods assimilating technology and the integration of

teaching into the rest of your academic life this book also includes an abundance of supportive supplementary content to guide and inform new teachers This content will also benefit seasoned teachers who wish to reevaluate their current teaching practices and explore new teaching ideas and techniques Presenting a comprehensive and cutting edge teaching guide for psychology teachers this book is a vital resource for those who are training psychology instructors or undertaking a teaching psychology course It is also a useful text for more experienced faculty looking to update their current teaching practices

The History of Educational Measurement Brian E. Clauser, Michael B. Bunch, 2021-07-07 The History of Educational Measurement collects essays on the most important topics in educational testing measurement and psychometrics Authored by the field's top scholars this book offers unique historical viewpoints from origins to modern applications of formal testing programs and mental measurement theories Topics as varied as large scale testing validity item response theory federal involvement and notable assessment controversies complete a survey of the field's greatest challenges and most important achievements Graduate students researchers industry professionals and other stakeholders will find this volume relevant for years to come

Narrating the Soviet Era in Russian School History Textbooks Olga Konkka, 2025-09-03 This study focuses on how Russian history textbooks published between 1992 and 2021 dealt with the topic of the Soviet period 1917-1991 Representations of this part of Russia's past in school manuals have provoked vivid debates and bolstered government intervention in the field while a gradual shift towards a less critical narrative of the USSR in more recent textbooks is often presented as directed by Vladimir Putin This study combines research into these texts and inquiry into those who write publish approve or criticize them Bringing together these perspectives provides a more complex view of school textbooks as final products of both top down and bottom up processes This volume is aimed at postgraduates researchers and academics specializing in Soviet history contemporary Russian politics and society and history education and textbooks

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