

Name of school
Grade 11 Mathematics
Term 4: Formal Assessment

Total: 150 marks

Time: 1 hour

Name: _____ Gr. 11: _____

Instructions and information:

- Answer all the questions
- An approved non-programmable calculator may be used
- No Tip – Ex may be used
- Show all your calculations
- Good luck



QUESTION 1

A kilocalorie is a unit of energy. For example, if food contains 20 kilocalories, it's a way of describing how much energy your body could get from eating the food.

The list below shows the energy quantities, in kilocalories per 100 g, of 10 different snack bars.

440	520	480	560	540
615	580	620	680	490



- 1.1 Calculate the mean kilocalories per 100 g bar. (2)
- 1.2 Calculate the standard deviation of kilocalories per 100 g bar. (3)
- 1.3 Draw a box and whisker diagram using the given energy quantities. (5)
- 1.4 Describe the skewness of the distribution of energy quantities. (2)
- 1.5 10 different breakfast cereals promoting energy levels of kilocalories per 100 g were chosen. The mean energy level of the breakfast cereals was 545,7 kilocalories and the standard deviation of the energy levels of the breakfast cereals was 28 kilocalories.

Which food type, snack bars or breakfast cereals, have the greater variety in energy levels? Explain your answer. (3)

(10)

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Grade Booster NCERT Exemplar Mathematics Class 7 I.S. Chawla,2025-09-17 The Grade Booster NCERT Exemplar Mathematics Class 7 provides comprehensive solutions to NCERT Exemplar problems designed to sharpen logical reasoning and application based learning With graded exercises HOTS questions and examiner s notes it strengthens understanding of Algebra Geometry Data Handling and Mensuration Perfect for both school exam success and Olympiad preparation

ICONESS 2021 Subuh Anggoro,Sriyanto Sriyanto,Ng Khar Thoe,Corrienna Abdul Talib,2021-11-26 This book constitutes the thoroughly refereed proceedings of the 1st International Conference on Social Sciences ICONESS 2021 held in Purwokerto Indonesia in July 2021 The 60 full papers presented were carefully reviewed and selected from 100 submissions The papers reflect the conference sessions as follows Education Curriculum and Instruction Education and Development Educational Psychology Mathematic Education Science Education Social Science Education Measurement and Evaluation Primary Education and Higher Education Religion Islamic Education Fiqh Science and Technology Halal Science Islamic Civilization Shariah Economic and Literation Teaching English as a Second Language TESL Language and Communication Literacy **Resources in Education** ,2001-10 **Future-Ready Teaching With AI** Aaron Blackwelder,Jason

Cowley,2024-12-21 Prepare your students for a future where AI literacy is crucial Artificial intelligence AI is here and seems on the brink of transforming education As teachers we know that AI will not diminish the need for students to learn essential skills It will however change how we teach and will require us to develop new skill sets for instruction and assessment Teachers have a new opportunity to embrace future ready instruction that prepares students to engage in a world that expects them to be AI literate In Future Ready Teaching With AI Unlocking Student Potential in the Age of Artificial Intelligence authors Aaron Blackwelder and Jason Cowley explore the integration of AI in the classroom and its potential to revolutionize teaching Much more than simply a book about using AI tools this rich resource aims to help teachers raise rigor increase engagement and promote more meaningful learning opportunities in their classrooms as they embrace the future of teaching and learning Offering evergreen principles and strategies to help educators navigate the age of AI this book Encourages critical thinking about the ethical use of AI to foster conversations with students Highlights various practical tools that can help teachers meet diverse student learning needs as well as create AI proof assignments Includes chapter vignettes sample AI prompts activities reflective questions and links to online resources to support teachers work in the classroom Examines how to leverage AI to streamline rudimentary tasks such as lesson planning assessment and differentiation allowing teachers to focus on building relationships providing feedback and personalizing learning for their students Written by two secondary teachers this book is an essential resource for K 12 teachers and administrators looking to move beyond the basics of using AI By equipping educators to become leaders in this transformation Future Ready Teaching With AI demonstrates how to harness the power of AI to help every student thrive **Formative Assessment** Harry Grover

Tuttle,2014-01-09 This how to book on formative assessment is filled with practical suggestions for teachers who want to use formative assessment in their classrooms With practical strategies tools and examples for teachers of all subjects and grade levels this book shows you how to use formative assessment to promote successful student learning *Annual Report of the State Board of Education* Ohio. State Board of Education,2005 **Handbook of Research on Educational**

Communications and Technology J. Michael Spector,M. David Merrill,Jan Elen,M. J. Bishop,2013-07-03 The 4th edition of the Handbook of Research on Educational Communications and Technology expands upon the previous 3 versions providing a comprehensive update on research pertaining to new and emerging educational technologies Chapters that are no longer pertinent have been eliminated in this edition with most chapters being completely rewritten expanded and updated Additionally new chapters pertaining to research methodologies in educational technology have been added due to expressed reader interest Each chapter now contains an extensive literature review documenting and explaining the most recent outstanding research including major findings and methodologies employed The Handbook authors continue to be international leaders in their respective fields the list is cross disciplinary by design and great effort was taken to invite authors outside of the traditional instructional design and technology community *Why Do English Learners Struggle With Reading?* John J. Hoover,Leonard M. Baca,Janette K. Klingner,2016-03-22 Make the right instructional and eligibility decisions to help your English Learners Do your students reading difficulties reflect language acquisition issues or a learning disability Now in an updated second edition this essential guide helps educators make informed accurate choices about strategies and services to support English Learners Developed for general and special education teachers and service providers this trusted resource offers a variety of research based best practices and includes Nine common misconceptions that can lead to wrongful placement of students in special education Theories of second language acquisition Select evidence based methods for teaching reading to students learning English Issues to consider and techniques to use when assessing students for special education and making data based decisions Role of cultural influences in reading instruction Expanded coverage of multi tiered system of supports MTSS Readers will find helpful vignettes checklists and suggestions that support outstanding teaching practices and appropriate effective use of assessment and referrals This book provides a wealth of information on ELs within the RTI process The authors provide a number of practical checklists that can be used by any school district Very few books address the topic as well as this one does Jennifer Urbach Associate Professor University of Northern Colorado *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

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