



Mathematics: applications and interpretation

Practice paper 1 SL

Total: 80 marks

1.

[Maximum mark: 5]

A school consists of 740 students divided into 5 grade levels. The numbers of students in each grade are shown in the table below.

Grade	8	9	10	11	12
Number of students	120	125	119	195	181

The Principal of the school wishes to select a sample of 25 students. She wishes to ensure that, as closely as possible, the proportion of the students from each grade in the sample is the same as the proportions in the school.

(a) Calculate the number of grade 12 students who should be in the sample. [3]

The Principal selects the students for the sample by asking those who took part in a previous survey if they would like to take part in another. She takes the first of those who reply positively, up to the maximum needed for the sample.

(b) State which two of the sampling methods listed below best describe the method used. [2]

Stratified Quota Convenience Systematic Simple random

2.

[Maximum mark: 5]

A factory produces engraved gold disks. The cost C of the disks is directly proportional to the cube of the radius r of the disk.

A disk with a radius of 0.8 cm costs 375 US dollars (USD).

(a) Find an equation which links C and r . [3]

(b) Find, to the nearest USD, the cost of disk that has a radius of 1.1 cm. [2]

Paper 2 Maths Sl Ib 2011

Wendy Bosberry-Scott

Paper 2 Maths Sl Ib 2011:

Introducing the IB Diploma Programme Marc Abrioux,Jill Rutherford,2013-02-14 Schools wishing to introduce the IB diploma programme are faced with major investment in terms of time effort and money in order to become authorised This manual is a resource for schools already offering the diploma as well as for prospective diploma schools IB World Schools Yearbook 2011 Wendy Bosberry-Scott,2011 This yearbook is the official guide to schools offering the International Baccalaureate Diploma Middle Years and Primary Years programmes It tells you where the schools are and what they offer and provides up to date information about the IB programmes and the International Baccalaureate Organization

Transitional Justice for Child Soldiers K. Fisher,2013-10-10 This book examines and offers suggestions for how post conflict practices should conceptualize and address harms committed by child soldiers for successful social reconstruction in the aftermath of mass atrocity It defends the use of accountability and considers the agency of youth participants in violent conflict as responsible moral entities

GEOPATHS—Broadening the Voices in Geosciences

James H. MacDonald Jr.,Renee M. Clary,Reginald S. Archer,Ruby L. Broadway,2025-12-19 **Supporting Children's Well-Being During Early Childhood Transition to School** Tatalović Vorkapić, Sanja,LoCasale-Crouch, Jennifer,2020-10-23 Life transitions differ concerning the intensity of the change and the intensity of the child s reaction to that change For most children the first and most significant transition is from the family home to an institution of early care and education which includes preschool These transitions can also include children s passage from kindergarten to elementary school However the intensity of the child s reaction is related to the size of the change that is happening and also to who or what is involved in that change and the importance a child attributes to that someone or something Supporting Children s Well Being During Early Childhood Transition to School is an essential scholarly publication that examines evidence based practices and approaches that fully support a child s well being during transition periods in early childhood It serves as a resource to rethink contemporary transition theoretical models research studies and applied practices Featuring a wide range of topics such as emotional competency language learners and professional development this book is ideal for academicians psychologists early childhood educators daycare centers curriculum designers policymakers researchers education professionals and students

Quantum Communication, Quantum Networks, and Quantum Sensing Ivan B. Djordjevic,2022-07-17 Quantum Communication Quantum Networks and Quantum Sensing represents a self contained introduction to quantum communication quantum error correction quantum networks and quantum sensing It starts with basic concepts from classical detection theory information theory and channel coding fundamentals before continuing with basic principles of quantum mechanics including state vectors operators density operators measurements and dynamics of a quantum system It continues with fundamental principles of quantum information processing basic quantum gates no cloning and theorem on indistinguishability of arbitrary quantum states The book then focuses on quantum information theory quantum detection and

Gaussian quantum information theories and quantum key distribution QKD The book then covers quantum error correction codes QECCs before introducing quantum networks The book concludes with quantum sensing and quantum radars quantum machine learning and fault tolerant quantum error correction concepts Integrates quantum information processing fundamentals quantum communication quantum error correction quantum networks QKD quantum sensing and quantum machine learning Provides in depth exposition on the design of quantum error correction circuits quantum communications systems quantum networks and quantum sensing systems Shows how to design the information processing circuits stabilizer codes CSS codes entanglement assisted quantum error correction codes Describes quantum machine learning

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22. KINETIC AND POTENTIAL ENERGY WORKSHEET Answer the following: a. What is the kinetic energy of a 1-kilogram ball is thrown into the air with an initial velocity of 30 m/sec? $KE = \frac{1}{2} m v^2$ $\frac{1}{2} (1 \text{ kg})$... Kinetic Energy (KE) = $\frac{1}{2}$ mass times velocity squared Potential and Kinetic Energy Worksheet. Kinetic Energy (KE) = $\frac{1}{2}$ mass times velocity squared. $KE = \frac{1}{2} mv^2$. Potential Energy (PE) = mass times the acceleration ... Kinetic and potential energy worksheet answer key o myaiu kinetic and potential energy worksheet classify the following as type of potential energy or kinetic energy (use the letters or bicyclist pedaling up ... Kinetic and Potential Energy Worksheet Walkthrough - YouTube kinetic and potential energy worksheet Flashcards A. How much kinetic energy does the ball have? B. How much potential energy does the ball have when it reaches the top of the ascent? KINETIC AND POTENTIAL ENERGY WORKSHEET Answer the following: a. What is the kinetic energy of a 1-kilogram ball is thrown into the air with an initial velocity of 30 m/sec? Kinetic vs Potential Energy Practice KEY Page 1. Scanned by CamScanner. Page 2. Scanned by CamScanner. Potential and kinetic energy worksheet and answer key This easy to read, one page passage about potential energy :explains potential energy as stored energygives examples such as a car ...