

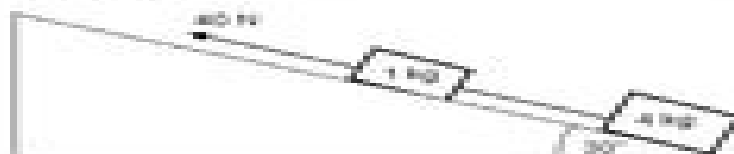
PHYSICAL SCIENCES P1 REVISION DOCUMENT

NEWTON'S LAWS

State the following laws

1. Newton's second law of motion
2. Newton's law of universal gravitation

QUESTION 2



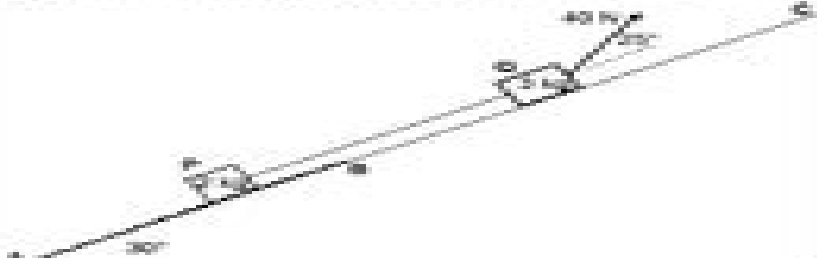
A block of mass 1 kg is connected to another block of mass 4 kg by a light inextensible string. The 1 kg block is on the inclined plane, by means of a constant 40 N force parallel to the plane as shown in the diagram below. The magnitude of the kinetic frictional force between the surface and the 4 kg block is 10 N. The coefficient of kinetic friction between the 1 kg block and the surface is 0,20.

- 2.1 State Newton's third law of motion in words. (2)
- 2.2 Draw a labelled free-body diagram showing ALL the forces acting on the 1 kg block as it moves up the incline. (5)
- 2.3 Calculate the magnitude of the:
 - 2.3.1 Kinetic frictional force between the 1 kg block and the surface (2)
 - 2.3.2 Tension in the string connecting the two blocks (5)

[14]

QUESTION 15

Block P, of mass 2 kg, is connected to block Q, of mass 3 kg, by a light inextensible string. Both blocks are on a plane inclined at an angle of 30° to the horizontal. Block Q is pulled by a constant force of 40 N at an angle of 25° to the incline.



Block P moves on a rough section, AB, of the incline, while block Q moves on a frictionless section, BC, of the incline. See diagram.

An average constant frictional force of 2,5 N acts on block P as it moves from A to B up the incline.

- 15.1 State Newton's Second Law in words. (2)
- 15.2 Draw a labelled free-body diagram for block P. (4)
- 15.3 Calculate the magnitude of the acceleration of block P while block P is moving on section AB. (8)

- 15.4 If block P has now passed point B, how will its acceleration compare to that calculated in QUESTION 15.3? Choose from: GREATER THAN, SMALLER THAN, or EQUAL TO. Give a reason for the answer. (2)

[14]

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Henry Pettus Randall



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The Complete Book of Colleges, 2013 Edition Princeton Review, 2012-08-07 Profiles every four year college in the United States providing detailed information on academic programs admissions requirements financial aid services housing athletics contact names and campus life

The Philosophers and Mathematics Hassan Tahiri, 2018-08-14 This book explores the unique relationship between two different approaches to understand the nature of knowledge reality and existence It collects essays that examine the distinctive historical relationship between mathematics and philosophy Readers learn what key philosophers throughout the ages thought about mathematics This includes both thinkers who recognized the relevance of mathematics to their own work as well as those who chose to completely ignore its many achievements The essays offer insight into the role that mathematics played in the formation of each included philosopher's doctrine as well as the impact its remarkable expansion had on the philosophical systems each erected Conversely the authors also highlight the ways that philosophy contributed to the growth and transformation of mathematics Throughout significant historical examples help to illustrate these points in a vivid way Mathematics has often been a favored interlocutor of philosophers and a major source of inspiration This book is the outcome of an international conference held in honor of Roshdi Rashed a renowned historian of mathematics It provides researchers students and interested readers with remarkable insights into the history of an important relationship throughout the ages

Handbook of Test Development Suzanne Lane, Mark R. Raymond, Thomas M. Haladyna, 2015-10-08 The second edition of the Handbook of Test Development provides graduate students and professionals with an up to date research oriented guide to the latest developments in the field Including thirty two chapters by well known scholars and practitioners it is divided into five sections covering the foundations of test development content definition item development test design and form assembly and the processes of test administration documentation and evaluation Keenly aware of developments in the field since the publication of the first edition including changes in technology the evolution of psychometric theory and the increased demands for effective tests via educational policy the editors of this edition include new chapters on assessing noncognitive skills measuring growth and learning progressions automated item generation and test assembly and computerized scoring of constructed responses The volume also includes expanded coverage of performance testing validity fairness and numerous other topics Edited by Suzanne Lane Mark R Raymond and Thomas M Haladyna The Handbook of Test Development 2nd edition is based on the revised Standards for Educational and Psychological Testing and is appropriate for graduate courses and seminars that deal with test development and usage professional testing services and credentialing agencies state and local boards of education and academic libraries serving these groups

Explanatory Models, Unit Standards, and Personalized Learning in Educational Measurement William P. Fisher Jr., Paula J. Massengill, 2022-10-15 The papers by Jack Stenner included in this book document the technical details of an art and science of measurement that creates new entrepreneurial business opportunities Jack brought theory

instruments and data together in ways that are applicable not only in the context of a given test of reading or mathematics ability but which more importantly catalyzed literacy and numeracy capital in new fungible expressions Though Jack did not reflect in writing on the inferential constructive processes in which he engaged much can be learned by reviewing his work with his accomplishments in mind A Foreword by Stenner's colleague and co author on multiple works William P Fisher Jr provides key clues concerning a how Jack's understanding of measurement and its values aligns with social and historical studies of science and technology and b how recent developments in collaborations of psychometricians and metrologists are building on and expanding Jack's accomplishments This is an open access book

South African Schooling: The Enigma of Inequality Nic Spaull, Jonathan D. Jansen, 2019-11-05 This volume brings together many of South Africa's leading scholars of education and covers the full range of South African schooling from financing and policy reform to in depth discussions of literacy numeracy teacher development and curriculum change The book moves beyond a historical analysis and provides an inside view of the questions South African scholars are now grappling with Are there different and preferential equilibria we have not yet thought of or explored and if so what are they In practical terms how does one get to a more equitable distribution of teachers resources and learning outcomes While decidedly local these questions resonate throughout the developing world South Africa today is the most unequal country in the world The richest 10% of South Africans lay claim to 65% of national income and 90% of national wealth This is the largest 90/10 gap in the world and one that is reflected in the schooling system Two decades after apartheid it is still the case that the life chances of most South African children are determined not by their ability or the result of hard work and determination but instead by the colour of their skin the province of their birth and the wealth of their parents Looking back on almost three decades of democracy in South Africa it is this stubbornness of inequality and its patterns of persistence that demands explanation justification and analysis This is a landmark book on basic education in South Africa an essential volume for those interested in learning outcomes and their inequality in South Africa The various chapters present conceptually and empirically sophisticated analyses of learning outcomes across divisions of race class and place The book brings together the wealth of decades of research output from top quality researchers to explore what has improved what has not and why Prof Lant Pritchett Harvard University There is much wisdom in this collection from many of the best education analysts in South Africa No surprise that they conclude that without a large and sustained expansion in well trained teachers early childhood education and adequate school resources South Africa will continue to sacrifice its people's future to maintaining the privileges of the few Prof Martin Carnoy Stanford University Altogether one can derive from this very valuable volume if not an exact blueprint for the future then certainly at least a crucial and evidence based itinerary for the next few steps Dr Luis Crouch RTI

Who's who Among Students in American Universities and Colleges Henry Pettus Randall, 1973

Rethinking the SAT Rebecca Zwick, 2013-04-15

Rethinking the SAT is a unique presentation of the latest thoughts and research findings of key individuals in the world of

college admissions including the president of the largest public university system in the U S as well as the presidents of the two companies that sponsor college admissions tests in the U S The contributors address not only the pros and cons of the SAT itself but the broader question of who should go to college in the twenty first century *Engineering* ,1941-07

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