



University of Birmingham | Faculty of Engineering

School of Mechanical Engineering

Elementary Fluids | April 2024 | 2024

Course Code: MECHENG0001

Module Code: MECHENG0001

Programme Year 1

The student is required to answer the questions below in detail in order to demonstrate their understanding of the concepts. The questions are designed to test the student's ability to apply the concepts to practical situations. The student is required to show their work and to provide a clear and concise answer to each question. The student is required to show their work and to provide a clear and concise answer to each question. The student is required to show their work and to provide a clear and concise answer to each question.

1. A fluid of density ρ is flowing in a pipe of diameter D . The velocity profile is given by $u = u_{max} \left(1 - \frac{4r^2}{D^2} \right)$. Calculate the average velocity u_{avg} of the fluid.

A. $u_{avg} = \frac{1}{2} u_{max}$

B. $u_{avg} = \frac{3}{8} u_{max}$

C. $u_{avg} = \frac{1}{4} u_{max}$

D. $u_{avg} = \frac{3}{4} u_{max}$

$$u_{avg} = \frac{1}{D^2} \int_0^D u(r) r dr = \frac{1}{D^2} \int_0^D u_{max} \left(1 - \frac{4r^2}{D^2} \right) r dr = \frac{1}{D^2} \left[\frac{u_{max}}{2} r^2 - \frac{4u_{max}}{6D^2} r^3 \right]_0^D = \frac{1}{D^2} \left[\frac{u_{max}}{2} D^2 - \frac{2u_{max}}{3} D^2 \right] = \frac{1}{D^2} \left[\frac{u_{max}}{6} D^2 \right] = \frac{1}{6} u_{max}$$

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B. $u_{avg} = \frac{3}{8} u_{max}$

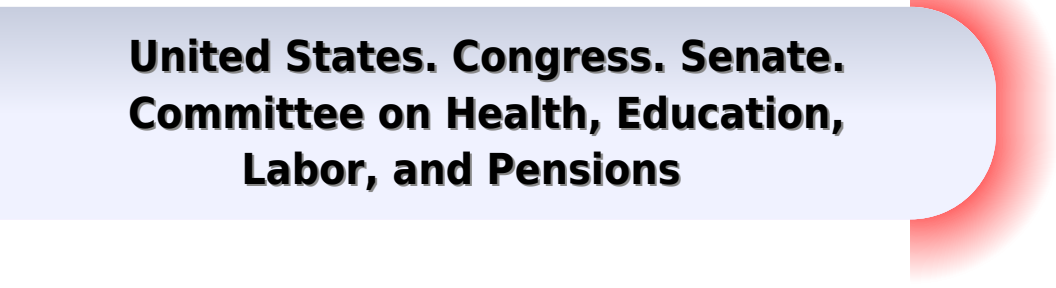
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Committee on Health, Education,
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Practice Test 3 Peterson's, 2012-06-29 Master the GRE Practice Test 3 part of Peterson's Master the GRE is a full length practice test designed to help you figure out which areas of study you need to pay special attention to when preparing for taking the revised GRE This practice test consists of five sections each with its own time allotment and specific instructions You will encounter each type of question that is also on the official test Finally there are sample essays and detailed answer explanations that will reinforce your knowledge and help you learn from your mistakes Beginning Algebra Ignacio Bello, Jack Rolf Britton, 1976 *Algebra for College Students* Ignacio Bello, 1977 **15 TGT Math Test Papers EMRS** Mocktime Publication, EMRS Exam Teachers TGT Math Test Papers 15 Practice Papers Tier 1 Eklayva Model Residential Schools as per Official Exam Pattern and Syllabus **Minutes of State Board of Education** California. State Board of Education, 1975-05 *Educational Testing and Measurement* Tom Kubiszyn, Gary D. Borich, 2024-01-24 Educational Testing Measurement Revised and updated edition of the reader friendly classroom relevant introduction to testing and assessment designed for educators to meet today's challenges in measuring student progress Educational Testing and Measurement Twelfth Edition is a revised and updated practical resource that will enhance assessment literacy to help prepare current and prospective teachers to navigate today's changing world of educational testing and assessment It describes the classroom impact of national and key state level policy changes that drive the ongoing changes in the usage of both teacher made and standardized tests and assessments Expanding on previous editions the book Explains test and measurement content in a nonintimidating and unique manner Clarifies how formative assessment can help integrate instruction and assessment on a day to day basis in the classroom and the roles of interim benchmark and summative assessment Describes the practical day to day issues related to the development scoring and interpretation of formative assessment results Presents both sides of the various controversies around educational testing and assessment to inform readers sufficiently to form their own opinions Uses a friendly conversational style to enhance the emphasis on the application of theory Provides sufficient theoretical background without oversimplifying for readers to understand the statistical and psychometric foundations of measurement New content in the twelfth edition Includes the impact of the COVID 19 pandemic on learning and assessment Expands coverage of formative interim benchmark and summative assessment Introduces Multi Tiered Systems of Support MTSS and explains how MTSS both integrates with and expands upon Response to Instruction Intervention RTI Describes changes to assessment practice driven by the Every Student Succeeds Act ESSA replacing No Child Left Behind Act or NCLB and state academic standards Includes examples illustrating the development usage and interpretation of assessment results in today's classrooms Includes an updated instructor's manual with an expanded item bank and links to on line resources to expand upon the text presentation in key areas e g formative assessments standardized testing measuring behavioral social and

emotional development Educational Testing and Measurement Twelfth Edition presents a balanced perspective of educational testing and assessment with a unique approach to descriptive statistics and psychometrics validity reliability and fairness

Math Instruction for Students with Learning Difficulties Susan Perry Gurganus,2021-11-29 This richly updated third edition of Math Instruction for Students with Learning Difficulties presents a research based approach to mathematics instruction designed to build confidence and competence in preservice and inservice PreK 12 teachers Referencing benchmarks of both the National Council of Teachers of Mathematics and Common Core State Standards for Mathematics this essential text addresses teacher and student attitudes towards mathematics as well as language issues specific mathematics disabilities prior experiences and cognitive and metacognitive factors Chapters on assessment and instruction precede strands that focus on critical concepts Replete with suggestions for class activities and field extensions the new edition features current research across topics and an innovative thread throughout chapters and strands multi tiered systems of support as they apply to mathematics instruction

Resources in Education ,2001-04

Test Talk! Cheli Cerra,Ruth Jacoby,2007-02-26 Test Talk provides a wealth of practical advice on how to deal with common issues that may arise with student testing from kindergarten through high school Authors Cheli Cerra and Ruth Jacoby identify 50 snapshots of situations that parents typically face when dealing with testing and then give you practical tools to help your children succeed including helpful checklists worksheets and progress reports

Nomination United States. Congress. Senate. Committee on Health, Education, Labor, and Pensions,2001

TestSoup's Guide for the Common Core: 6th Grade Math Laura Shanteler,2013-10-12 Our 6th Grade Common Core Math eBook is designed to explain the Common Core Standards and provide students the opportunity to practice the basic skills needed to be successful when taking the new Common Core Assessments in the 2013 2014 school year Students will prepare for the new Common Core Assessments by building proficiency in the basic skills needed for 6th Grade Math with Standard Overviews that explain each objective in easy to understand terms so you know exactly what your student will learn during the school year and what they need to know how to do to be on grade level Vocabulary lists that help students become familiar with the math vocabulary they will work with during the year Practice Problems for each standard that give students multiple chances to practice the various skills needed to be successful with Common Core A full length diagnostic test for students to take at the beginning of the year to see which skills they already know and ones they will need to practice throughout the year 2 Full length practice tests for students to use throughout the year to track progress Annotated answers for each and every problem in the diagnostic and practice tests that clearly explain how to solve each problem on the test This eBook is designed to align to the Common Core Standards and set students up for success on the PARCC and Smarter Balance Assessments You can use this to pace your student through 6th grade or use this to give your 5th grader a head start or your 7th grader a review of the basics Like us on Facebook Follow us on Twitter Keep an eye out for our new app set to launch on all iOS platforms Learn with our eBooks study with

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CliffsTestPrep FCAT Grade 10 Reading and Math Enrique Ortiz, EdD, Thomas R. Davenport, 2007-05-21 Your guide to a higher score on the Florida Comprehensive Assessment Test Why CliffsTestPrep Guides Go with the name you know and trust Get the information you need fast Written by test prep specialists About the contents This book is two study guides in one With a detailed description of the exam plus 5 practice reading tests and 5 practice math tests it's the practical way to prepare for the Florida Comprehensive Assessment Test which you must pass as a requirement for graduation The Reading Test Overview with the types of questions and how to answer them Test taking strategies 5 practice reading tests with answers and explanations The Math Test Overview with the types of questions and how to answer them Test taking strategies 5 practice math tests with answers and explanations Test Prep Essentials from the Experts at CliffsNotes More than Notes CliffsAP CliffsComplete CliffsQuickReview CliffsTestPrep CliffsStudySolver

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Army Personnel Tests and Measurement United States. Department of the Army, 1962 *10 Full-length STAAR Grade 6 Math Practice Tests* Reza Nazari, 2023-04-24 The Comprehensive Study Resource for Acing the 2023 STAAR Grade 6 Math Exam 10 Full Length STAAR Grade 6 Math Practice Tests 10 Full Length STAAR Grade 6 Math Practice Tests is a thorough and reliable tool created to assist students in attaining remarkable performance in their forthcoming Math examination This vital guide offers Ten meticulously designed practice tests that align with the latest STAAR test standards Detailed answer explanations for each practice question Extensive knowledge of all STAAR Grade 6 Math concepts and themes Proven techniques and strategies to overcome exam stress and boost self confidence This comprehensive resource is perfect for students aiming to master the STAAR Grade 6 Math Test It provides an in depth understanding of all examined concepts extensive answer explanations and beneficial tips and strategies ensuring students feel prepared and confident on the day of the test Unique Features of 10 Full Length STAAR Grade 6 Math

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