

acs organic chemistry exam percentiles

Deciphering the ACS Organic Chemistry Exam Percentiles: A Comprehensive Guide

The American Chemical Society (ACS) Organic Chemistry exam is a significant hurdle for many undergraduate chemistry students. More than just a grade, the exam's percentile score reflects a student's mastery of organic chemistry principles against a national benchmark. Understanding ACS organic chemistry exam percentiles is crucial for self-assessment, identifying areas for improvement, and ultimately, for career prospects. This comprehensive guide will delve into the intricacies of these percentiles, exploring their meaning, interpretation, and implications.

Understanding ACS Organic Chemistry Exam Percentiles

The ACS exam doesn't simply provide a raw score; it translates this score into a percentile ranking. This percentile indicates the percentage of students who scored at or below a particular student's raw score on a given exam administration. For instance, a percentile score of 80 means that the student scored higher than 80% of the other students who took the same exam. This standardized ranking provides a valuable context for evaluating performance, independent of variations in difficulty between different exam versions.

Advantages of Using Percentiles for ACS Organic Chemistry Exam Evaluation

Standardized Comparison: Percentiles offer a standardized method of comparing student performance across different exam administrations and institutions. This is crucial because the difficulty of the exam can slightly vary from year to year. A percentile score provides a consistent measure of achievement regardless of these variations.

Benchmarking Against National Standards: Percentiles allow students to benchmark their performance against a large, representative sample of their peers nationwide. This helps to contextualize individual scores, providing a realistic assessment of their preparedness for graduate studies or professional careers.

Targeted Improvement: Identifying one's percentile ranking allows for focused study. If a student scores below average in a particular area (as reflected in the detailed score report often provided), they can dedicate more time and effort to mastering those concepts.

Analyzing ACS Organic Chemistry Exam Percentile Data (Illustrative Example)

Let's assume a hypothetical distribution of scores for a particular ACS Organic Chemistry exam administration:

Percentile	Approximate Raw Score Range
90th	85-100
75th	75-84
50th (Median)	65-74
25th	55-64
10th	Below 55

[Insert Bar Chart Here: A bar chart visually representing the percentile data above. X-axis: Percentile ranges (10th, 25th, 50th, 75th, 90th). Y-axis: Number of students or percentage of students.]

This table and chart (which would be included in a real article) illustrate how raw scores translate into percentiles. A student scoring within the 75th percentile performed better than 75% of the test-takers. The median (50th percentile) provides a benchmark for average performance.

Factors Influencing ACS Organic Chemistry Exam Percentiles

Several factors contribute to a student's final percentile score. Understanding these factors can help students prepare more effectively.

1. Course Preparation and Instruction:

The quality of the undergraduate organic chemistry course significantly impacts student performance. A well-structured curriculum, effective teaching methods, and readily available support resources all contribute to higher scores.

2. Study Habits and Time Management:

Effective study strategies, consistent effort, and efficient time management are crucial. Students should develop a personalized study plan that incorporates diverse learning methods, such as practice problems, flashcards, and collaborative learning.

3. Understanding of Core Concepts:

A strong grasp of fundamental organic chemistry principles is paramount. Students should focus on mastering concepts rather than rote memorization. This includes understanding reaction mechanisms, stereochemistry, and spectroscopy.

4. Exam-Taking Strategies:

Exam-taking skills, including time management during the exam and strategic problem-solving, contribute to a student's overall performance. Practicing under timed conditions using previous exam questions can significantly improve performance.

Interpreting Your ACS Organic Chemistry Exam Percentile

Your percentile isn't just a number; it's a valuable tool for self-assessment and future planning. A high percentile reflects a strong understanding of organic chemistry, potentially opening doors to competitive graduate programs or research opportunities. A lower percentile, however, should not be seen as a failure but rather as an opportunity to identify weaknesses and improve.

Meaningful Reflections

The ACS Organic Chemistry exam is a challenging but crucial component of an undergraduate chemistry education. While the percentile score is a significant metric, it shouldn't be the sole determinant of a student's capabilities. The learning process itself, the development of critical thinking skills, and the acquisition of problem-solving abilities are equally important outcomes. Focusing on continuous improvement and seeking feedback from instructors are key to success in organic chemistry and beyond.

Frequently Asked Questions (FAQs)

1. Is a certain percentile score required for graduate school admission?
While there's no universal requirement, higher percentiles generally strengthen applications. Specific requirements vary widely depending on the graduate program and institution.
1. How can I improve my score if I didn't achieve my desired percentile?

Focus on identified weak areas, utilize available resources (textbooks, online materials, tutoring), and practice extensively with past exams.

1. Are there different versions of the ACS Organic Chemistry exam? Yes, the exam content is periodically updated, and there may be slight variations in difficulty from one administration to another. However, the percentile ranking adjusts for these variations.
1. How are the percentiles calculated? The percentile is calculated by comparing your raw score to the scores of all other students who took the same exam version. The exact calculation method is proprietary to the ACS.
1. Where can I find information on past ACS Organic Chemistry exam percentiles? While detailed historical percentile data is generally not publicly released, your institution's chemistry department might have some internal statistics. You can also use resources like Kaplan or other prep companies for practice exams and estimates of relative difficulty.

This comprehensive guide aims to provide a thorough understanding of ACS organic chemistry exam percentiles. Remember that perseverance, effective study habits, and a focus on conceptual understanding are the cornerstones of success in organic chemistry. Your percentile score is a valuable tool, but it's only one piece of the puzzle in your journey as a chemist.

acs organic chemistry exam percentiles: The Resource Handbook for Academic Deans

Laura L. Behling, 2014-01-07 The Resource Handbook for Academic Deans, Third Edition This thoroughly revised volume is written by and for academic administrators. Each chapter explores a particular challenge or issue that has been identified by the American Conference of Academic Deans (ACAD) members as most relevant in their role as academic leaders, then provides practical step-by-step guidance that can help deans navigate even the toughest of situations. "There is no map for thriving as a dean, but this handbook offers an essential guidebook and compass for the journey. Both informed and inspired, it is above all humane in presenting the purpose, practice, and privilege of a dean's good work." —William J. Craft, president, Concordia College "Academic deans, both new and seasoned, will benefit enormously from this collection of ruminations by experienced and successful academic leaders on the issues that are most prominent and often most vexing for those who enter the arena of academic leadership. For newcomers to the deanery, this handbook will be

an eye-opener; and for veteran deans, a helpful reminder of both first principles and best practices.” —Richard Ekman, president, The Council of Independent Colleges “ACAD meetings and electronic communications are marked by collaboration and by sharing means for encouraging faculty and student success. The handbook exemplifies that spirit of collaboration as members articulate their candid and helpful recommendations for enhancing work with faculty and students.” —Scott E. Evenbeck, president, Stella and Charles Guttman Community College “ACAD has created an extraordinary resource for the entire postsecondary community. For new and seasoned deans alike, the ACAD handbook offers a wealth of generous, wise, and practical guidance. Presenting lessons learned both from lived experiences and from organizational scholarship, the handbook will help deans succeed in their myriad essential roles.” —Carol Geary Schneider, president, Association of American Colleges and Universities American Conference of Academic Deans (ACAD) is a nonprofit individual membership organization dedicated to the professional development of academic leaders. ACAD’s mission is to assist these leaders as they advance in careers dedicated to the ideals of liberal education.

acs organic chemistry exam percentiles: [ACS General Chemistry Study Guide](#) , 2020-07-06
Test Prep Books' ACS General Chemistry Study Guide: Test Prep and Practice Test Questions for the American Chemical Society General Chemistry Exam [Includes Detailed Answer Explanations] Made by Test Prep Books experts for test takers trying to achieve a great score on the ACS General Chemistry exam. This comprehensive study guide includes: Quick Overview Find out what's inside this guide! Test-Taking Strategies Learn the best tips to help overcome your exam! Introduction Get a thorough breakdown of what the test is and what's on it! Atomic Structure Electronic Structure Formula Calculations and the Mole Stoichiometry Solutions and Aqueous Reactions Heat and Enthalpy Structure and Bonding States of Matter Kinetics Equilibrium Acids and Bases Solubility Equilibria Electrochemistry Nuclear Chemistry Practice Questions Practice makes perfect! Detailed Answer Explanations Figure out where you went wrong and how to improve! Studying can be hard. We get it. That's why we created this guide with these great features and benefits: Comprehensive Review: Each section of the test has a comprehensive review created by Test Prep Books that goes into detail to cover all of the content likely to appear on the test. Practice Test Questions: We want to give you the best practice you can find. That's why the Test Prep Books practice questions are as close as you can get to the actual ACS General Chemistry test. Answer Explanations: Every single problem is followed by an answer explanation. We know it's frustrating to miss a question and not understand why. The answer explanations will help you learn from your mistakes. That way, you can avoid missing it again in the future. Test-Taking Strategies: A test taker has to understand the material that is being covered and be familiar with the latest test taking strategies. These strategies are necessary to properly use the time provided. They also help test takers complete the test without making any errors. Test Prep Books has provided the top test-taking tips. Customer Service: We love taking care of our test takers. We make sure that you interact with a real human being when you email your comments or concerns. Anyone planning to take this exam should take advantage of this Test Prep Books study guide. Purchase it today to receive access to: ACS General Chemistry review materials ACS General Chemistry exam Test-taking strategies

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acs organic chemistry exam percentiles: [Introductory Statistics 2e](#) Barbara Illowsky, Susan Dean, 2023-12-13 Introductory Statistics 2e provides an engaging, practical, and thorough overview of the core concepts and skills taught in most one-semester statistics courses. The text focuses on diverse applications from a variety of fields and societal contexts, including business, healthcare, sciences, sociology, political science, computing, and several others. The material supports students with conceptual narratives, detailed step-by-step examples, and a wealth of illustrations, as well as collaborative exercises, technology integration problems, and statistics labs. The text assumes some knowledge of intermediate algebra, and includes thousands of problems and exercises that offer instructors and students ample opportunity to explore and reinforce useful statistical skills. This is an adaptation of Introductory Statistics 2e by OpenStax. You can access the textbook as pdf for free

at openstax.org. Minor editorial changes were made to ensure a better ebook reading experience. Textbook content produced by OpenStax is licensed under a Creative Commons Attribution 4.0 International License.

acs organic chemistry exam percentiles: *Introductory Business Statistics 2e* Alexander Holmes, Barbara Illowsky, Susan Dean, 2023-12-13 Introductory Business Statistics 2e aligns with the topics and objectives of the typical one-semester statistics course for business, economics, and related majors. The text provides detailed and supportive explanations and extensive step-by-step walkthroughs. The author places a significant emphasis on the development and practical application of formulas so that students have a deeper understanding of their interpretation and application of data. Problems and exercises are largely centered on business topics, though other applications are provided in order to increase relevance and showcase the critical role of statistics in a number of fields and real-world contexts. The second edition retains the organization of the original text. Based on extensive feedback from adopters and students, the revision focused on improving currency and relevance, particularly in examples and problems. This is an adaptation of Introductory Business Statistics 2e by OpenStax. You can access the textbook as pdf for free at openstax.org. Minor editorial changes were made to ensure a better ebook reading experience. Textbook content produced by OpenStax is licensed under a Creative Commons Attribution 4.0 International License.

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found after each test, rather than at the end of each section, for easier access.

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acs organic chemistry exam percentiles: A Research Review of Interventions to Increase the Persistence and Resilience of Coral Reefs National Academies of Sciences, Engineering, and Medicine, Division on Earth and Life Studies, Board on Life Sciences, Ocean Studies Board, Committee on Interventions to Increase the Resilience of Coral Reefs, 2019-04-05 Coral reef declines have been recorded for all major tropical ocean basins since the 1980s, averaging approximately 30-50% reductions in reef cover globally. These losses are a result of numerous problems, including habitat destruction, pollution, overfishing, disease, and climate change. Greenhouse gas emissions and the associated increases in ocean temperature and carbon dioxide (CO₂) concentrations have been implicated in increased reports of coral bleaching, disease outbreaks, and ocean acidification (OA). For the hundreds of millions of people who depend on reefs for food or livelihoods, the thousands of communities that depend on reefs for wave protection, the people whose cultural practices are tied to reef resources, and the many economies that depend on reefs for fisheries or tourism, the health and maintenance of this major global ecosystem is crucial. A growing body of research on coral physiology, ecology, molecular biology, and responses to stress has revealed potential tools to increase coral resilience. Some of this knowledge is poised to provide practical interventions in the short-term, whereas other discoveries are poised to facilitate research that may later open the doors to additional interventions. A Research Review of Interventions to Increase the Persistence and Resilience of Coral Reefs reviews the state of science on genetic, ecological, and environmental interventions meant to enhance the persistence and resilience of coral reefs. The complex nature of corals and their associated microbiome lends itself to a wide range of possible approaches. This first report provides a summary of currently available information on the range of

interventions present in the scientific literature and provides a basis for the forthcoming final report.

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acs organic chemistry exam percentiles: *MCAT 528 Advanced Prep 2021-2022* Kaplan Test Prep, 2020-11-03 Kaplan's MCAT 528 Advanced Prep 2021-2022 features thorough subject review, more questions than any competitor, and the highest-yield questions available—all authored by the experts behind the MCAT prep course that has helped more people get into medical school than all other major courses combined. Prepping for the MCAT is a true challenge. Kaplan can be your partner along the way—offering guidance on where to focus your efforts, how to organize your review, and targeted focus on the most-tested concepts. This edition features commentary and instruction from Kaplan's MCAT experts and has been updated to match the AAMC's guidelines precisely—no more worrying if your MCAT review is comprehensive! The Most Practice More than 500 questions in the book and online and access to even more online—more practice than any other advanced MCAT book on the market. The Best Practice Comprehensive subject review is written by top-rated, award-winning Kaplan instructors. All material is vetted by editors with advanced science degrees and by a medical doctor. Online resources, including a full-length practice test, help you master the computer-based format you'll see on Test Day. Expert Guidance Star Ratings throughout the book indicate how important each topic will be to your score on the real exam—informed by Kaplan's decades of MCAT experience and facts straight from the testmaker. We know the test: The Kaplan MCAT team has spent years studying every MCAT-related document available. Kaplan's expert psychometricians ensure our practice questions and study materials are true to the test.

acs organic chemistry exam percentiles: *Evaluation Models* D.L. Stufflebeam, George F. Madaus, T. Kellaghan, 2005-12-19 This is an up-to-date revision of the classic text first published in 1983. It includes a historical perspective on the growth of evaluation theory and practice and two comparative analyses of the various alternative perspectives on evaluation. It also includes articles

representing the major schools of thought about evaluation written by the leaders who have developed these schools and models. The final section describes and discusses the Standards for Program Evaluation and the reformation of program evaluation.

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Donald A. McQuarrie, John D. Simon, 1997-08-20 Emphasizes a molecular approach to physical chemistry, discussing principles of quantum mechanics first and then using those ideas in development of thermodynamics and kinetics. Chapters on quantum subjects are interspersed with ten math chapters reviewing mathematical topics used in subsequent chapters. Includes material on current physical chemical research, with chapters on computational quantum chemistry, group theory, NMR spectroscopy, and lasers. Units and symbols used in the text follow IUPAC recommendations. Includes exercises. Annotation copyrighted by Book News, Inc., Portland, OR

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DeMaggio, 2012-12-06 A contribution towards making this increasingly valuable technology accessible to researchers, including the students, post-doctoral scholars, and technicians gathering the knowledge inherent in this integration between analysis and physical isolation/purification methodologies. A step-by-step approach to the methodology for measuring various attributes demonstrated in the particular cells of interest is provided, as is a myriad of resources to fuel the curiosity and answer questions of both new and adept users. This book stems from the editors' experiences managing flow cytometry/cell sorting core facilities for the emerging researchers, in particular in developmental, cellular, and molecular biology.

acs organic chemistry exam percentiles: *The Cancer Atlas* Ahmedin Jemal, 2015 This atlas illustrates the latest available data on the cancer epidemic, showing causes, stages of development, and prevalence rates of different types of cancers by gender, income group, and region. It also examines the cost of the disease, both in terms of health care and commercial interests, and the steps being taken to curb the epidemic, from research and screening to cancer management programs and health education.

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Espelid, Dorte Haubek, 2017-01-04 Pediatric Dentistry: A Clinical Approach, Third Edition provides a uniquely clear, comprehensive, and clinical approach to the dental treatment of children and adolescents. Offers systematic coverage of all clinical, scientific and social topics relating to pediatric dentistry Thoroughly revised and updated new edition, with an increased focus on evidence based care Includes three new chapters on genetics, child abuse and neglected children, and ethics

Pedodontic endodontics is now covered by two chapters – one on primary teeth and one on young permanent teeth Features a companion website with interactive self-assessment questions

acs organic chemistry exam percentiles: Plant Diseases and Food Security in the 21st Century Peter Scott, Richard Strange, Lise Korsten, Maria Lodovica Gullino, 2021-05-22 Of the global population of more than 7 billion people, some 800 million do not have enough to eat today. By 2050, the population is expected to exceed 9 billion. It has been estimated that some 15% of food production is lost to plant diseases; in developing countries losses may be much higher. Historically, plant diseases have had catastrophic impact on food production. For example: potato blight caused the Irish famine in 1845; brown spot of rice caused the Great Bengal Famine of 1943; southern corn leaf blight caused a devastating epidemic on the US corn crop in 1970. Food security is threatened by an ongoing sequence of plant diseases, some persistent for decades or centuries, others more opportunistic. Wheat blast and banana xanthomonas wilt are two contrasting examples of many that currently threaten food production. Other emerging diseases will follow. The proposed title aims to provide a synthesis of expert knowledge to address this central challenge to food security for the 21st century. Chapters [5] and [11] are available open access under a Creative Commons Attribution 4.0 International License via link.springer.com.

acs organic chemistry exam percentiles: Veterans and Agent Orange National Academies of Sciences, Engineering, and Medicine, Health and Medicine Division, Board on Population Health and Public Health Practice, Committee to Review the Health Effects in Vietnam Veterans of Exposure to Herbicides (Eleventh Biennial Update), 2019-01-20 From 1962 to 1971, the U.S. military sprayed herbicides over Vietnam to strip the thick jungle canopy that could conceal opposition forces, to destroy crops that those forces might depend on, and to clear tall grasses and bushes from the perimeters of US base camps and outlying fire-support bases. Mixtures of 2,4-dichlorophenoxyacetic acid (2,4-D), 2,4,5-trichlorophenoxyacetic acid (2,4,5-T), picloram, and cacodylic acid made up the bulk of the herbicides sprayed. The main chemical mixture sprayed was Agent Orange, a 50:50 mixture of 2,4-D and 2,4,5-T. At the time of the spraying, 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD), the most toxic form of dioxin, was an unintended contaminant generated during the production of 2,4,5-T and so was present in Agent Orange and some other formulations sprayed in Vietnam. Because of complaints from returning Vietnam veterans about their own health and that of their children combined with emerging toxicologic evidence of adverse effects of phenoxy herbicides and TCDD, the National Academies of Sciences, Engineering, and Medicine was asked to perform a comprehensive evaluation of scientific and medical information regarding the health effects of exposure to Agent Orange, other herbicides used in Vietnam, and the various components of those herbicides, including TCDD. Updated evaluations were conducted every two years to review newly available literature and draw conclusions from the overall evidence. Veterans and Agent Orange: Update 11 (2018) examines peer-reviewed scientific reports concerning associations between various health outcomes and exposure to TCDD and other chemicals in the herbicides used in Vietnam that were published between September 30, 2014, and December 31, 2017, and integrates this information with the previously established evidence database.

acs organic chemistry exam percentiles: The Ocean and Cryosphere in a Changing Climate Intergovernmental Panel on Climate Change (IPCC), 2022-04-30 The Intergovernmental Panel on Climate Change (IPCC) is the leading international body for assessing the science related to climate change. It provides policymakers with regular assessments of the scientific basis of human-induced climate change, its impacts and future risks, and options for adaptation and mitigation. This IPCC Special Report on the Ocean and Cryosphere in a Changing Climate is the most comprehensive and up-to-date assessment of the observed and projected changes to the ocean and cryosphere and their associated impacts and risks, with a focus on resilience, risk management response options, and adaptation measures, considering both their potential and limitations. It brings together knowledge on physical and biogeochemical changes, the interplay with ecosystem changes, and the implications for human communities. It serves policymakers, decision makers,

stakeholders, and all interested parties with unbiased, up-to-date, policy-relevant information. This title is also available as Open Access on Cambridge Core.

acs organic chemistry exam percentiles: *Preparing for Your ACS Examination in Organic Chemistry* I. Dwaine Eubanks, Lucy T. Eubanks, 2002-01-01

acs organic chemistry exam percentiles: *Statistics, Concepts and Controversies* David S. Moore, 2012-11-09 No textbook communicates the basics of statistical analysis to liberal arts students as effectively as the bestselling *Statistics: Concepts and Controversies* (SCC). And no text makes it easier for these students to understand and talk about statistical claims they encounter in commercials, campaigns, the media, sports, and elsewhere in their lives. The new edition offers SCC's signature combination of engaging cases, real-life examples and exercises, helpful pedagogy, rich full-color design, and innovative media learning tools, all significantly updated.

acs organic chemistry exam percentiles: *Aamc the Official Guide to the McAt(r) Exam, Fifth Edition* Aamc Association of American Medical Col, 2017-11 The Official Guide to the MCAT(R) Exam, the only comprehensive overview about the MCAT exam, includes 120 practice questions and solutions (30 questions in each of the four sections of the MCAT exam) written by the developers of the MCAT exam at the AAMC Everything you need to know about the exam sections Tips on how to prepare for the exam Details on how the exam is scored, information on holistic admissions, and more.

acs organic chemistry exam percentiles: *Genetic Toxicology* James M. Parry, Elizabeth M. Parry, 2011-12-07 The evaluation of potential mutagenic activity is a critical step in the assessment of the safety of both new and pre-existing chemical types. In *Genetic Toxicology: Principles and Methods*, expert contributors help to satisfy the demand for education in this tremendously important area of study. The volume covers three basic areas: the scientific basis of the discipline, the methodologies of the main test assays, and the application of the methods, all aimed primarily at scientists in the safety departments of the industries working with both natural and synthetic chemicals. Written in the highly successful *Methods in Molecular Biology*™ series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Intuitive and cutting-edge, *Genetic Toxicology: Principles and Methods* provides crucial support to both laboratory workers in providing quality information on the appropriate application of techniques and to study directors in their assay selection and protocol design in this vital field.

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acs organic chemistry exam percentiles: *In Pursuit of Excellence* Loyd R. Wagner, 1997

Additional Resources

How Your Final Exam Score Will Be Determined - Anoka ...

The table below shows how raw scores on the ACS exam will be converted to scaled final exam scores. The ACS standardized exam has 70 questions, two of which are on material we did ...

ACS exam grading formula - ICDST

The class average in chemistry is usually 75/100. Therefore, a student scoring at the 50th percentile on the ACS exam should receive a grade of approximately 75%.

American Chemical Society Division of Chemical Education

Composite Norms – 2024 Organic Chemistry Brief (OR24B) Score Percentile Score
Percentile 45 100 20 25 44 100 19 20 43 100 18 16 42 100 17 12 41 100 16 10
40 100 15 6 39 100 14 4 38 ...

Acs Organic Chemistry Exam Percentiles 2022 (2024)

Acs Organic Chemistry Exam Percentiles 2022: Preparing for Your ACS
Examination in Organic Chemistry Examinations Institute-American Chemical
Society Division of Chemical ...

ACS Examination guide (Selected Questions) Organic ...

ACS Examination guide (Selected Questions) Organic Chemistry Nomenclature 1.
What is the IUPAC names for this compound? a) 1-tert-butyl-2-butanol b) 5,5-
dimethyl-3-hexanol c) 2,2 ...

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16 1 67 100 41 65 15 1 66 100 ...

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16 1 67 100 41 60 15 0 66 100 ...

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42 63 16 1 67 100 41 ...

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Score Percentile Score Percentile 70 100 44 72 18 5 69 100 43 70 17 3 68 100
42 68 16 2 67 100 41 ...

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Composite Norms – Organic Chemistry Form 2012 ScorePercentile
ScorePercentile ScorePercentile

How Your Final Exam Score Will Be Determined - Anoka ...

The table below shows how raw scores on the ACS exam will be converted to scaled final exam scores. The ACS standardized exam has 70 questions, two of which are on material we did not ...

ACS exam grading formula - ICDST

The class average in chemistry is usually 75/100. Therefore, a student scoring at the 50th percentile on the ACS exam should receive a grade of

approximately 75%.

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Composite Norms – 2024 Organic Chemistry Brief (OR24B) Score Percentile Score
Percentile 45 100 20 25 44 100 19 20 43 100 18 16 42 100 17 12 41 100 16 10
40 100 15 6 39 100 14 4 38 99 ...

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16 1 67 100 41 65 15 1 66 100 40 ...

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