



The University of the State of New York
THE STATE EDUCATION DEPARTMENT
Office of Assessment Policy, Development and Administration
Albany, New York 12234

**INFORMATION BOOKLET FOR SCORING
THE REGENTS EXAMINATIONS IN MATHEMATICS
JANUARY 2012 ADMINISTRATION
INTEGRATED ALGEBRA
GEOMETRY
ALGEBRA 2/TRIGONOMETRY**

GENERAL INFORMATION

The general procedures to be followed in administering the Regents Examinations in Integrated Algebra, Geometry, and Algebra 2/Trigonometry are provided in the publication *Directions for Administering Regents Examinations, January 2012 Administration* (DET 541), and in the new 2012 edition of the *School Administrator's Manual*, available in January 2012. The *Directions for Administering* are made available to schools on the Department's web site at <http://www.p12.nysed.gov/apda/hsgen/home.html>. The *School Administrator's Manual* is available on the Department's web site at <http://www.p12.nysed.gov/apda/sam/secondary/home.html>.

Questions about **general administration procedures** for Regents Exams should be directed to the Office of Assessment Policy, Development and Administration (APDA) at 518-474-5902 or 518-474-8220. For information about the **rating** of the Regents Examinations in Integrated Algebra, Geometry, and Algebra 2/Trigonometry, contact APDA at 518-474-5900.

School administrators should print or photocopy this information booklet and distribute copies to all school personnel who will be scoring these exams.

SCORING THE EXAMS

The Scoring Key and Rating Guide

Printed copies of scoring keys and rating guides will **not** be sent to schools for the Regents Exams. Instead, scoring keys and rating guides will be posted on the Department's web site at <http://www.p12.nysed.gov/apda/scoring/home.html> at approximately 11:00 a.m. for morning exams and approximately 3:00 p.m. for afternoon exams. Schools must print sufficient copies to supply one to each rater.

All scoring keys and rating guides posted on the Department's web site will be password protected. The school principal will receive an e-mail from the Department on the day of the exam that provides the password to be used to access all scoring keys and rating guides being posted that day. In order to access these documents, all schools will be required to enter the password sent by the Department.

The Regents Examinations in Integrated Algebra, Geometry, and Algebra 2/Trigonometry are to be scored by committees of mathematics teachers. No one teacher is to score more than approximately one third of the open-ended questions on a student's paper. The committee must be comprised of at least three teachers. Each of these teachers is responsible for scoring a similar number of the open-ended questions. The more teachers serving on a committee, the fewer open-ended questions each teacher scores. This process yields consistent and reliable scores and allows scoring to proceed quickly.

Each exam is accompanied by a scoring key that includes the answers to the Part I multiple-choice questions and rubrics for scoring each of the open-ended questions. Teachers must become thoroughly familiar with the rubrics for the open-ended questions they are scoring before beginning to score student responses to exam questions.

The Regents Examination in Integrated Algebra no longer includes a detachable answer sheet. Instead, schools must obtain for each student a scannable answer sheet provided by the regional scanning center. The scannable answer sheet has designated spaces for raters to record their names and their assigned rater code letters.

The Regents Examinations in Geometry and Algebra 2/Trigonometry each contain a detachable answer sheet. Each answer sheet contains a table with spaces for recording the Part I score; the score for each question in Parts II, III, and IV; the total-test raw score; and the scale score. The answer sheet also contains designated spaces for the raters to record their names and initials.

Scoring of Multiple-Choice Questions

For the Regents Examination in Integrated Algebra all schools must use uniform scannable answer sheets provided by the regional information center or large city scanning center. If these answer sheets are being hand scored prior to being scanned, the scorer must be careful not to make any stray marks on the answer sheet that might later interfere with the accuracy of the scanning.

When administering the Regents Examinations in Geometry and Algebra 2/Trigonometry, the school may have students record their answers to the multiple-choice questions either on the hand-scorable answer sheet provided as the last page of the test booklet or on a scannable answer sheet provided by the school. (Schools may not require students to record their responses for the same multiple-choice questions on more than one answer sheet.)

Before scannable answer sheets are machine scored, several samples must be both machine and manually scored to ensure the accuracy of the machine-scoring process. All discrepancies must be resolved before student answer sheets are machine scored. When machine scoring is completed, a sample of the scored answer sheets must be scored manually to verify the accuracy of the machine-scoring process.

DETERMINING THE STUDENT'S FINAL EXAM SCORE

A chart for converting the student's total-test raw score to a scale score is provided for each administration on the Department's web site at <http://www.p12.nysed.gov/apda/>. Because the scale scores corresponding to raw scores change from one exam administration to another, it is *crucial* that, for each administration, scorers use *only* the conversion chart provided for that administration to determine the student's final score. If the determination of each student's scale score is being done by hand, extreme care must be taken in recording the student's scores on each part of the exam, adding these scores to determine the total-test raw score, and using the conversion chart to obtain the correct scale score.

Schools are **not permitted** to rescore any of the open-ended questions on any Regents Exam in mathematics after each open-ended question has been rated once, regardless of the final exam score. Schools are required to ensure that the raw scores have been added correctly and that the resulting scale score has been determined accurately.

When the teacher scoring committee completes the scoring process, test scores must be considered final and must be entered onto students' permanent records. In addition, each rater must sign the Examination Scoring Certificate attesting that he or she fully and faithfully observed the rules and regulations for scoring the exams. The principal must also sign this certificate to attest that the rules and regulations for scoring were fully and faithfully observed.

Principals and other administrative staff in a school or district do not have the authority to set aside the scores arrived at by the teacher scoring committee and rescore student exam papers or to change any scores assigned through the procedures described in this manual and in the scoring materials provided by the Department. Any principal or administrator found to have done so, except in the circumstances described below, will be in violation of Department policy regarding the scoring of State exams. Teachers and administrators who violate Department policy with respect to scoring State exams may be subject to disciplinary action in accordance with Sections 3020 and 3020-a of Education Law or to action against their certification pursuant to Part 83 of the Regulations of the Commissioner of Education.

On rare occasions, an administrator may learn that an error occurred in the calculation of a final score for a student or in recording students' scores in their permanent records. For example, the final score may have been based on an incorrect summing of the student's raw scores for parts of the test or from a misreading of the conversion chart. When such errors involve the answer papers for no more than 5% of the school's test takers for the exam or five students, whichever is greater, and when they are detected within four months of the test date, the superintendent of a public school district or the chief administrative officer of a nonpublic or charter school may arrange for the corrected score to be recorded in the student's permanent record. However, in all such instances, the superintendent or chief administrative officer must advise APDA in writing that the student's score has been corrected. The written notification to the Department must be signed by the superintendent or chief administrative officer and must include the names of the students whose scores have been corrected, the exam title, the students' original and corrected scores, and a brief explanation of the nature of the scoring error that was corrected.

If an administrator has substantial reason to believe that the teacher scoring committee has failed to accurately score the answer papers for more than 5% of the school's test takers for the exam or five students, whichever is greater, or when errors are detected more than four months after the test date, the administrator must first obtain permission in writing from APDA before arranging for or permitting a rescoring of student papers. The written request to APDA must come from the superintendent of a public school district or the chief administrative officer of a nonpublic or charter school and must include the exam title, date of administration, and number of students whose papers would be subject to such rescoring. This request must also include a statement explaining why the administrator believes that the teacher scoring committee failed to score appropriately and, thus, why he or she believes rescoring the exam papers is necessary. As part of this submission, the school administrator must make clear his or her understanding that such extraordinary re-rating may be carried out only by a full committee of teachers constituted in accordance with the scoring guidelines presented above and fully utilizing the scoring materials for this exam provided by the Department.

The Department sometimes finds it necessary to notify schools of a revision to the scoring key and rating guide for an exam. Should this occur after the scoring committee has completed its work, the administrator is authorized to have appropriate members of the scoring committee review students' responses only to the specific question(s) referenced in the notification and to adjust students' final exam scores when appropriate. Only in such circumstances is the school not required to notify or obtain approval from the Department to correct students' final exam scores.

Specific Information for Scoring the Regents Exams in Mathematics

The information below refers to the scoring of open-ended questions on the Regents Examinations in Integrated Algebra, Geometry, and Algebra 2/Trigonometry.

The open-ended questions (Parts II, III, and IV) on the Regents Examinations in Integrated Algebra, Geometry, and Algebra 2/Trigonometry should be scored in accordance with these guidelines:

- If the student gives one legible response, even if it is crossed out, teachers should score the response.
- If there are two or more responses with all but one crossed out, teachers should score only the response not crossed out.
- If there are one or more partial responses and one complete response, teachers should score the complete response. No credit is deducted for incorrect startups.
- If there are two or more complete responses, teachers should score each one. Credit will be allocated in the following way:

If one response is completely correct and the others are completely incorrect, teachers should award 50% credit and round down (3 credits for a 6-credit question, 2 credits for a 4-credit question, 1 credit for a 3-credit question, and 1 credit for a 2-credit question).

If each response warrants more than 50%, the lesser of the responses is awarded credit. (For example, if a 4-credit question is done two ways, with one worth 4 credits and another worth 3 credits, the student should be awarded 3 credits for the question.)

- If the question requires the student to include units of measure, full credit cannot be awarded if the student omits the unit or if incorrect units are used. Students may include the appropriate unit of measure even if it is not required.

Examples:

If the question asks for the number of feet in the length of a figure, no unit is required in the answer.

If the question asks for the dimensions of a figure, the proper unit of measure is required in the answer in order to receive full credit.

The rubric will specify how much credit is awarded if units are not used when required.

- If a student gives only a correct numerical answer to a problem but does not show how he or she arrived at the answer, the student will be awarded only 1 credit. All open-ended questions require the student to show work. If the question has only one part, this rule is straightforward, but this rule needs some clarification for multiple-part questions.

A fully correct answer for a multiple-part question requires correct responses for all parts of the question. For example, if a 3-credit question has three parts, the correct response to one or two parts of the question that required work to be shown is *not* considered a fully correct response with no work shown and would receive 0 credit.

The rubric of a multiple-part question will specify credit for various amounts of work shown.

- Students should receive 0 credit if the solution is completely incorrect, irrelevant, or incoherent or if a correct response was arrived at using an obviously incorrect procedure.

This last statement is illustrated by a student who, when asked to find one leg of a right triangle if the hypotenuse is 5 and the other leg is 3, gives a correct response of 4 by showing that 4 is the average of 3 and 5.

The method of solution must be obviously incorrect to warrant a score of 0.

In some cases, the rubric will specifically state which responses should receive a score of 0.