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ABSTRACT

The Connecticut Mastery Test was designed to assess specific skill levels of students by measuring performance on various learning objectives that students can be expected to master. The grade 4 Connecticut Mastery Test, given for the first time in the fall of 1985, provides information which can be used to improve instruction and the basic skills in mathematics and language arts. This report covers: (1) the legislative background; (2) the mastery test development process, including test construction, pilot tests, surveys and mastery test content; (3) setting mastery standards by objective, including remedial (grant) standards; (4) test administration and scoring, including testing guidelines, scoring of the language arts and mathematics test, scoring of the writing sample, analytic scoring, and scoring of the Degrees of Reading Power (DRP) test; (5) reporting of the school district test results; and (6) Fall 1985 statewide mastery test results for mathematics and language arts, with test results by district and participation rate results. Supporting data and information are included in charts and appendices; (BAE)



CONNECTICUT EDUCATION EVALUATION AND REMEDIAL ASSISTANCE

GRADE 4 MASTERY TEST RESULTS SUMMARY AND INTERPRETATIONS 1985-86



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Education Evaluation and Remedial Assistance

GRADE 4 MASTERY TEST RESULTS

SUMMARY AND INTERPRETATIONS: 1985-86

STATE OF CONNECTICUT DEPARTMENT OF EDUCATION



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One of my highest priorities and a very central aspect of Connecticut's Challenge: An Agenda for Educational Equity and Excellence is the implementation of the statewide mastery cesting program in mathematics and language arts, including listening, reading and writing, for grades 4, 6, and 8. The testing program is designed to assess specific skill levels of students by measuring performance on various learning objectives that students reasonably can be expected to have mastered by the end of grades 3, 5, and 7.

The results of the Connecticut Mastery Test at three grade levels will be useful in evaluating:

- o individual student performance in mathematics and language arts;
- o the effectiveness of instructional programs in mathematics and language arts; and
- o the effectiveness of the remedial assistance programs in mathematics and language arts.

The grade 4 Connecticut Mastery Test, given for the first time in the fall of 1985, provides valuable educational information which can be used to improve instruction and the basic skills of Connecticut's students. The test results have helped local districts to re-examine curriculum and to identify students who have not mastered certain skills. The grade 6 and grade 8 Connecticut Mastery Tests will be given for the first time in the fall of 1986, along with the second administration of the grade 4 mastery test.

I encourage you to carefully review the mastery test results provided at the student, classroom and district levels. The Department is prepared to assist local school districts in the areas of curriculum and professional development.

Gerald N. Tirozzi
Commissioner of Education





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In June 1984, the General Assembly of the State of Connecticut amended Section 10-14m-r of the Connecticut General Statutes, an act concerning Education Evaluation and Remedial Assistance (EERA). This law provides that:

- o By May 1, 1985, each local or regional board of education shall develop and submit for State Board of Education approval, a new plan of educational evaluation and remedial assistance Each plan is to address the following:
 - the use of student assessment results for instructional improvement
 - the identification of individual students in need of remedial assistance in language arts/reading, and mathematics
 - -- the provision of remedial assistance to students with identified needs
 - -- the evaluation of the effectiveness of the instructional programs in language arts/reading, and mathematics
- o The State Board of Education shall administer an annual statewide mastery test in language arts/reading, and mathematics to all fourth-, sixth-, and eighth-grade students.
- Each student who scores below the statewide remedial standard on one or more parts of the eighth-grade mastery examination or the ninth grade proficiency test shall be retested. Starting in October 1987, these students shall be retested annually, using the eighth-grade mastery test, only in the deficient area(s) until such students score at or above the statewide remedial standard(s).
- o Biennially, each local or regional board of education shall submit to the State Board of Education a report which includes indicators of student achievement and instructional improvement.
- o On a regularly scheduled basis the State Board of Education shall complete field assessments of the implementation of local EERA plans.
- o On an annual basis, test results and low income data shall be used to determine the distribution of available state funds to support remedial assistance programs.

The purpose of this report is to summarize the development and implementation of the fourth-grade Connecticut Mastery Test. The mastery test assesses how well each student is performing on those skills identified by content experts and practicing educators as important for students entering fourth grade to have mastered.



OVERVIEW OF THE MASTERY TEST DEVELOPMENT PROCESS

In the spring of 1984, the Connecticut General Assembly amended the Education Evaluation and Remedial Assistance (EERA) legislation to authorize the creation of mastery tests in the basic skill areas of mathematics and language arts, including listening, reading and writing skills. The tests were to be established for grades 4, 6, and 8.

The goals of the mastery testing program are:

- o earlier identification of students needing remedial education;
- o testing a more comprehensive range of academic skills;
- o setting high expectations and standards for student achievement;
- o more useful test achievement information about students, school and districts;
- o improved assessment of suitable equal educational opportunities, and
- o continual monitoring of students in grades 4, 6, and 8.

The type of test that best addresses these goals is a criterion-referenced test. Criterion-referenced tests are designed to assess the specific skill levels of students. Such tests usually cover relatively small units of content. Their scores have meaning in terms of what the student knows or can do. Test results are used to identify the areas of strengths and weaknesses of each student.

Test Construction

The development of the fourth-grade criterion-referenced mastery test required the formation of seven statewide advisory committees. These included the Mathematics and Language Arts Committees, the Psychometrics Committee, the Bias Committee, the Mastery Test Implementation Advisory Committee, and two standard setting committees, one for mathematics and one for language arts. These committees were comprised of representatives from throughout the state. Members were selected for their area of expertise. Some 150 Connecticut educators participated on the mastery test committees which met over 80 times over an 18-month period (see Acknowledgements, p. vii).

Beginning in the spring of 1984, content committees in both language arts and mathematics participated in each stage of the test development process, including assisting the State Department of Education in the selection of the Psychological Corporation as its test contractor. First, the content committees reviewed the curriculum materials prevalent throughout the state and the scope of the national tests in use in Connecticut at the respective grade levels. The Connecticut curriculum guides in mathematics and language arts, developed in 1981, were valuable resources, as well as the results of recent Connecticut Assessment of Educational Progress (CAEP) assessments in mathematics and language arts. Next, the committees identified sets of preliminary mathematics and language arts objectives which reflected existing curriculum materials and the goals of the mastery testing program. The content committees defined an objective as an operationalized learning outcome that was fairly narrow and clearly defined.



Four criteria were used in identifying the appropriate learning outcomes or test objectives and in selecting specific test items to be included on the Grade 4 Connecticut Mastery Test. To be considered for use, test objectives and items must be:

- (1) significant and important,
- (2) developmentally appropriate,
- (3) reasonable for most students to achieve, and
- (4) generally representative of what's taught in Connecticut schools.

Once the objectives were identified, item specifications and/or sample items were written. Item specifications are written descriptions of the types and forms of test items that assess an objective. They also prescribe the types of answer choices that can be used with each item.

After the test specifications were written and agreed upon, the test contractor wrote items and response choices for each of the objectives. The items were then reviewed by the content committees. Items which met the criteria of the test specifications and received the approval of the content committees were considered for the pilot test. Before testing, the Bias Committee reviewed each item for potential adverse discrimination of gender, race or ethnicity in the language or format of the question or response choices. After their review was completed, the pilot test forms were constructed. Over 500 customized Connecticut items were included in the October 1984 Grade 4 pilot test in language arts and mathematics.

The Psychometrics Committee provided advice concerning other aspects of the pilot test including the sampling design, statistical bias analysis, the design of item specifications, and pilot test administration procedures. The recommendations proposed by the Psychometrics Committee were reviewed and endorsed by the liastery Test Implementation Advisory Committee.

Pilot Tests

After the items had been reviewed, twelve test forms (six in mathematics, and six in language arts) were piloted for the Grade 4 test. The purpose of several pilot test forms was to ensure that enough test items were included to construct three comparable test forms from the pilot test results.

Over 6,000 Grade 4 students participated in the October 1984 pilot test. In January 1985, the pilot test results were made available to Connecticut State Department of Education (CSDE) staff. The process of selecting items to construct three comparable test forms began by the Bias Committee examining the pilot test statistics of each item for potential bias. As a result, some items were eliminated from the item pool. From the remaining items, test forms were constructed to be equivalent in content and difficulty at both the objective and total test levels.



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Once the items were sorted on this basis, the test contractor prepared three complete forms of the mathematics test and two complete forms of the language arts test. These forms were approved by the content committees. Each form was created to be equal in difficulty and test length. A third language arts test will be constructed after a few additional items are piloted as part of a future test administration. The psychometric procedures used to construct these test forms focus primarily on the use of the one-parameter latent trait model.

Survey

In October 1984, a survey of preliminary Grade 4 mastery test objectives was sent to over 3,000 Connecticut educators. The purpose of the survey was to determine (1) the importance of the proposed mathematics and reading/language arts objectives, and (2) whether the objectives were taught prior to the fall of grade 4. Over a 50% response rate was achieved which included approximately one-third of the respondents representing urban school districts. As a result of the survey, two objectives were not considered to be important learning outcomes before fourth-grade and consequently were eliminated from the fourth-grade language arts test by the Language Arts Committee.

Mastery Test Content

Mathematics. The Mathematics Committee recommended a Grade 4 mathematics test that assessed twenty-five (25) specific objectives in four domains: (1) Conceptual Understanding; (2) Computational Skills; (3) Problem Solving/Applications; and (4) Measurement/Geometry. There are four test items per objective for a total of 100 items on the mathematics test. A detailed list of domains, objectives, and number of items per objective is given in Appendix A (p. 19).

Language Arts. The Language Arts committee recommended a 103 item Grade 4 language arts test that covers two domains: Reading/Listening, and Writing/Locating Information. The eleven (11) objectives recommended by the Language Arts Committee are presented in Appendix B (p. 21).

The general content of Reading/Listening consisted of narrative, expository, and persuasive passages on a variety of topics measuring a student's ability in: (1) Literal Comprehension; (2) Inferential or Interpretive Comprehension; and (3) Critical or Evaluative Comprehension. Audiotapes were used to assess students' listening comprehension ability in: (1) Literal Comprehension; and (2) Inferential and Evaluative Comprehension. The Degrees of Reading Power Test, which included eight (8) passages and fifty-six (56) test items and was designed to measure a student's ability to understand nonfiction English prose at different levels of reading ability, was also used to assess reading.



The general content of Writing/Locating Information consisted of three components. First, writing skills were directly assessed. Each student was asked to write a composition on a designated topic. Writing was judged on a student's demonstrated ability to convey information in a coherent and organized fashion. Second, the mechanics of good writing, which was defined as (1) Capitalization and Punctuation, (2) Spelling, Homonyms and Abbreviations, and (3) Agreement, was assessed in a multiple choice format. Third, Locating Information, (Schedules, Maps, Index and References, and Dictionary Meaning) measured students' ability to find and use information from the sources listed. A detailed list of objectives and number of items per objective is given in Appendix B.

SETTING MASTERY STANDARDS BY OBJECTIVE

The essence of the Connecticut Mastery Test (CMT) is the establishment of a specific mastery standard that accurately reflects students' knowledge and competency on each objective. The mastery test incorporates appropriate and challenging expectations for Connecticut public school students. The goal of the CMT Program is for each student to achieve mastery of all objectives. The objectives being tested were identified as appropriate and reasonable for students at each of the grades tested. These tests are designed to measure students' performance against these specific objectives.

The process of establishing the mastery standards by objective used a statistical method that required two decisions to be operationalized. The first decision defined a student who mastered a particular skill as one who had a 95% chance of correctly answering each item within the objective. The second decision was that the specific standard for each objective would identify 99% of the students who mastered the skill. For example, literal reading comprehension is measured by 12 questions. By applying the two decision rules stated above to a binomial distribution table, a student is identified as mastering the skill if he/she gets at least 9 of the 12 items correct.

The mastery standards are as follows:

1

- o In mathematics, for each of the 25 objectives, a student must answer correctly at least 3 out of 4 items.
- o In language arts, for the nine multiple choice objectives with varying numbers of items, a student must answer correctly the following number of items:



		# Items Correct for Mastery		
Reading Comprehension				
(1) Literal	9 0	ut of	12	
(2) Inferential	1 <u>0</u> c	ut of	14	
(3) Evaluative	7 c	out of	10	
Listening Comprehension				
(4) Literal		ut of	7	
(5) Inferential & Evaluative	9 d	ut of	1 3	
Writing Mechanics				
(6) Capitalization and				
Punctuation	9 c	ut of	12	
(7) Spelling Words, Homonyms				
and Abbreviations	7 c	ut of	9	
(8) Agreement	11 c	ut of	15	
(9) Locating Information	8 0	ut of	11	

No mastery levels were set for the two holistic language arts measures, the Degrees of Reading Power (DRP) test and the Writing Sample, since these measures are not composed of objectives against which mastery could be assessed.

Setting Remedial (Grant) Standards

The Psychometrics Committee also considered alternative ways to set standards for grant and remedial purposes. Public Act 84-294 requires that the Connecticut State Board of Education establish statewide standards for remedial assistance in order to meet two responsibilities:

- to identify and monitor the progress of students in need of remedial assistance in language arts/reading and mathematics as part of the EERA field assessments; and
- to distribute EERA funds based on the number of needy students statewide, as well as for use in the Chapter 2 and Priority School District Grants.

The Psychometrics Committee advised setting the standards by the number of items correct because of important technical considerations in equating test forms. The committee conducted lengthy deliberations over the technical feasibility of establishing standards by the number of objectives passed but felt there were significant obstacles which could not be overcome. Standard-setting committees in mathematics and language arts/reading were convened in March 1985 to determine the grant/remedial standards. The standard-setting committees recommended the following remedial standards:



- 1. In mathematics, a student who answers fewer than 69 of the 100 items (69%) correctly is required to receive further diagnosis by the local school district and, if necessary, to be provided with remedial assistance.
- 2. In reading, a student whose Degrees of Reading Power (DRP) unit score is lower than 41 is required to receive further diagnosis and, if necessary, to be provided with remedial assistance.
- 3. In writing, a student receiving a total holistic score less than 4 is required to receive further diagnosis by the local school district and, if necessary, to be provided with remedial assistance.

The recommendations of the Psychometrics Committee and the Standard Setting Committees were reviewed by the Mastery Test Implementation Advisory Committee in March 1985. The Mastery Test Implementation Advisory Committee (MTIAC) endorsed the procedures used to establish the remedial standards with the clarification that the remedial standards should be considered broad indicators of student achievement and need. The value of the criterion-referenced test is as a diagnostic tool to help districts identify students in need of remedial assistance, to target State Department of Education resources to those students most in need, and to provide useful information to local school districts for improving their curriculum and instructional programs. The MTIAC felt strongly that the data generated by the State Department of Education should not be used to compare performance among districts.

The mastery and remedial standards were adopted, as recommended, by the State Board of Education on June 23, 1985. For a detailed explanation of the remedial standard-setting process, see Appendix C (p. 23).

TEST ADMINISTRATION AND SCORING

Test sessions were conducted by local school district staff under the supervision of local test coordinators who had been trained by staff of the Department and the Psychological Corporation. A student who took all subtests participated in approximately six hours of testing.

In order to accommodate the number of religious holidays in late September and early October, the Grade 4 Mastery Test schedule allowed for three weeks of testing (including make-ups). Also, in order to allow local districts as much latitude as possible in adapting test administration to local conditions and students' needs, local plans for administration of the Grade 4 Mastery Test were acceptable if the following guidelines were met for all students:



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Testing Guidelines: Grade 4 Connecticut Mastery Test

- a) The writing sample MUST occur on Tuesday, September 24, 1985.
- b) Other testing must occur sometime between September 23 and October 4, 1985.
- c) All fourth graders in a district must be tested on the same schedule.
- d) Testing must occur during the regular school day in a regular classroom setting.
- e) No more than two (2) testing sessions may be administered in one day with at least a half-hour break between testing sessions (e.g., two a.m. sessions or one a.m. session and one p.m. session).
- f) Make-up sessions MUST conclude by Friday, October 11, 1985. Conditions "d" and "e" above must also hold for all make-up sessions.

The Grade 4 Connecticut Mastery Test had seven testing sessions. Each session included five minutes for instructions.

- mathematics I (60 minutes)
- mathematics II (60 minutes)
- writing sample (45 minutes)
- Degrees of Reading Power (45 minutes)
- reading comprehension (45 minutes)
- listening comprehension (45 minutes)
- writing mechanics/locating information (45 minutes)

At the conclusion of the make-up testing period, answer booklets were returned to National Computer Systems (NCS) of Iowa City, Iowa and organized in preparation for holistic scoring workshops and optical scanning and scoring.

Scoring of the Language Arts and Mathematics Test

The mathematics and language arts multiple-choice tests were machine-scored by NCS. Mathematics scores were reported for the total test as well as for mastery by each objective. Likewise, language arts scores were reported for the total test as well as for mastery of each objective.

Scoring of the Writing Sample

The writing sample was scored by Connecticut elementary teachers using a technique known as the holistic scoring method. Holistic scoring is an impressionistic and quick scoring process that rates written products on the basis of their overall quality. It relies upon the scorers' trained understanding of the general features that determine distinct levels of achievement on a scale appropriate to the group of writing pieces being evaluated.



The major assumption upon which holistic scoring is based is that the quality of a piece of writing should be judged on its overall success as a whole presentation, rather than on the quality of its component parts. Contributing to the rationale underlying holistic scoring is evidence that: (1) no aspect of writing skill can really be judged independently; (2) teachers can recognize and agree upon good writing when they see it regardless of how they describe writing ability, and (3) teachers will rate pieces of writing in much the same way regardless of any discrepant views they might hold about how particular components of writing should be weighed.

The procedure for holistic scoring is specific to the complete set of writing samples on a given topic that a group of scorers have been asked to evaluate. That is, the scoring scale is based on the range of ability reflected in the particular set of writing samples being assessed.

Preparation for scoring. Prior to the training/scoring sessions, a committee consisting of Connecticut State Department of Education (CSDE) consultants, representatives of the language arts committee and other language arts specialists, two Chief Readers and project staff from Measurement Inc. of Durham, North Carolina, met and read a substantial number of essays drawn from the total pool of essays to be scored. Approximately 60 essays were selected to serve as "range-finders" or "marker papers," representing the range of achievement demonstrated in the total set of papers. Copies of those range-finders served as training papers during the scoring workshops which followed. Each range-finder was assigned a score according to a four-point scale, where 1 represents a poor paper and 4 represents a superior paper.

Scoring workshops. During the month of November, eight holistic scoring workshops were held in two different locations in the state. Attendance at these scoring workshops totaled 700 teachers. A Chief Reader and two assistants were present at every workshop in addition to representatives of the CSDE. Each workshop consisted of a training session and a scoring session.

The general procedure for a training session is described below.

- Each training paper (range-finder) was studied in turn and trial-scored by all scorers. Scoring judgments were independent, quick, and immediate, and were based on the scorer's overall impression of the paper. No fractional points on the score scale (1-4) were permissible.
- After all scorers had scored the first four training papers, their judgments were compared to the score assigned during the range-finding process. Any discrepancies were discussed. Through repeated discussions on succeeding training papers, scorers came to identify and internalize those features of written composition that distinguish the papers along the established range. This "holistic" process obviates the need to articulate explicitly the specific criteria that separate one score point from the next.



Scorers were "calibrated" by ascertaining that they were making judgments consistent with one another and with the Chief Reader/table leaders. Discussions about papers continued until agreement was reached on the scores of the training papers.

Once scorers were calibrated, actual scoring of the writing exercises occurred. Each paper was read independently by two different scorers; that is, the second reader did not see the score assigned by the first reader. The Chief Reader was responsible for adjudicating any disagreement of more than one Point between the judgments of the two scorers as well as any score in combination with a zero score. In other words, discrepancies of one point between scores (e.g., 4 and 3, 1 and 2, 2 and 3) were acceptable, but larger discrepancies (e.g., 2 and 4, 3 and 1, 1 and 4, as well as 0 and 1, 2, 3, or 4) had to be resolved by the Chief Reader. Once a paper was assigned two non-discrepant scores, the two scores would be summed to produce the final score for each student. The possible scale of summed scores ranged from a low of 2 to a high of 8.

Understanding the holistic scores. Examples of actual student papers which are representative of the scoring range will assist the reader in understanding the statewide standard set for writing and in interpreting the test results. Sample papers representing four different holistic scores are presented in Appendix D (p. 29). Note that the process of summing the scores assigned by the two readers expands the scoring scale to account for "borderline" papers. A paper which receives a 4 from both scorers (for a total score of 8) is likely to be better than a paper to which one reader assigns a 4 and another reader assigns a 3 (for a total score of 7). In addition, it should be emphasized that each of the score points represents a range of student papers—some 4 papers are better than others.

A score of zero (0) was assigned to student papers in certain cases. A score of 0 indicates that a paper is not scorable and, therefore, that the student's writing skills remain to be assessed. The cases in which a score of 0 was assigned were as follows:

- o responses merely repeated the assignment
- o illegible responses
- o blank responses
- o responses in languages other than Erglish
- o responses that failed to address the assigned topic in any way
- responses that were too bring to score accurately, but which demonstrated no signs of serious writing problems (for example, a response by a Student who wrote the essay first on scratch paper and who failed to Set very much of it recopied)

Both readers had to agree that a paper deserved a zero before this score was assigned. If the two readers disagreed, the Chief Reader arbitrated the discrepancy. Papers which were assigned a score of zero were not included in summary reports of test results.

Analytic Scoring

All papers receiving holistic scores below the remedial standard also received analytic scoring in five categories (traits): focus, organization, support/elaboration, mechanics and sentence formation. Analytic scoring is a thorough, trait-by-trait analysis of those components of a writing sample that are considered important to any piece of writing in any context. This scoring procedure can provide a comprehensive picture of a student's writing performance if enough traits are analyzed. It can identify those traits that make a piece of writing effective or ineffective. However, the traits need to be explicit and well defined so that the raters understand and agree upon the basis for making judgments about the writing sample. The analytic rating guide and sample marker papers for the analytic scoring are presented in Appendix E (p. 37).

Scoring of the Degrees of Reading Power (DRP) Test

The scores reported are in DRP unit scores. These scores identify the difficulty or readability level of prose that a student can read with comprehension. This makes it possible to match the difficulty of written materials with student ability. These scores can be better interpreted by referring to the readability levels of some general reading materials as shown below:

- o Elementary textbooks (grades 3-5) 35-58 DRP Units
- o Fiction Section child magazines 48 DRP Units

A much more extensive list of reading materials is contained and rated in the booklet Readability Report, Seventh Edition, published by The College Board.

The conversion between DRP unit scores and raw scores can be made from the tabled values in The College Board's Degrees of Reading Power PB Series Conversion Tables, effective March, 1985.

SCHOOL DISTRICT TEST RESULTS REPORTING

The CMT school district reports are designed to provide useful and comprehensive test achievement information about students, schools and districts. Four standard test reports are generated to assist teachers, principals, superintendents and parents to understand and use criterion-referenced test results. Appendix F (p. 61) presents samples of the school district and parent/student diagnostic score reports.

FALL 1985 STATEWIDE MASTERY TEST RESULTS

The Grade Four Connecticut Mastery Test provides a comprehensive report card on how students perform on specific skills that Connecticut educators feel are important at the beginning of fourth grade. The mastery test is instructionally useful since it identifies areas of weakness, as well as areas of strength.

Mathematics

In mathematics, fourth graders mastered an average of 19.3 objectives of the 25 tested, or 77.2 percent. The state's goal is that all students master every objective, or 100 percent. Chart 1 (p. 13) illustrates that, statewide, students demonstrated strong scores in the areas of basic facts and simple applications (such as addition/subtraction to 18; addition/subtraction without regrouping; and addition with regrouping), but students did not perform as well on items that require higher level thinking — that is, conceptual and analytical skills (e.g., rewrite numbers by regrouping and identify number sentences from pictures). While students demonstrated acquisition of basic mathematical skills, the results show weaker performance on items that assess an understanding of place value and estimation.

Students also performed poorly on topics not emphasized in primary school mathematics textbooks, such as use of patterns and ability to interpret pictorial representations of mathematical relationships.

A total of 67 percent of the students mastered 19 or more objectives on the mathematics test, and 8 percent mastered all 25 objectives (see Appendix G, p. 73).

Students getting fewer than 69 questions correct on the 100-question mathematics section (20%) were identified as needing further diagnosis and possible remedial instruction.

Language Arts

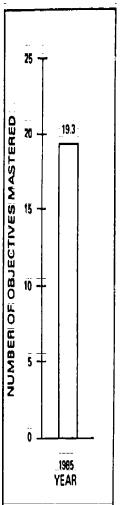
In language arts, grade 4 students averaged 6.1 objectives of the nine tested, or 67 percent. The state's goal is that all students master every objective, or 100 percent. Chart 2 (p. 14) illustrates that while students did reasonably well on writing mechanics and on locating information, significant weaknesses are found in higher order inferential and evaluative reading and listening comprehension. A total of 63 percent of the students mastered six or more objectives on the language arts test, which includes writing and reading skills, and 28 percent of the students mastered all nine objectives (see Appendix G, p. 73).

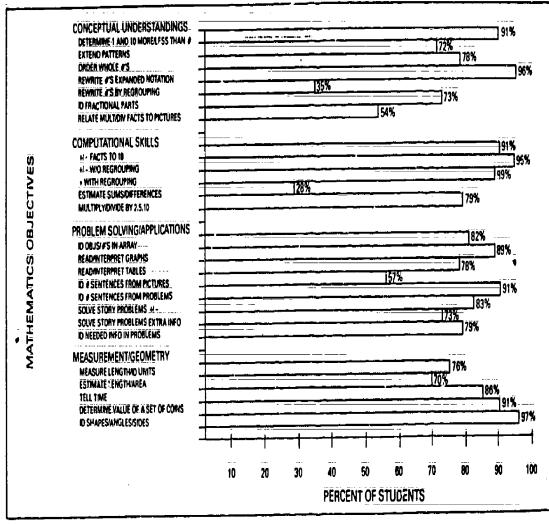
In writing, grade 4 students averaged 4.8 points on a scale of 2 through 8. The state's goal is that all students be able to produce an organized, well-supported piece of writing, that is, a score of 7 or 8. Chart 3 (p. 15) illustrates that 17 percent of the students produced an



MATHEMATICS: AVERAGE NUMBER OF OBJECTIVES MASTERED

MATHEMATICS: PERCENT OF STUDENTS ACHIEVING MASTERY FOR EACH OBJECTIVE





This bar chart illustrates the average number of mathematics objectives mastered, statewide.

This bar chart illustrates the percent of students, statewide, who mastered each of the 25 mathematics objectives.

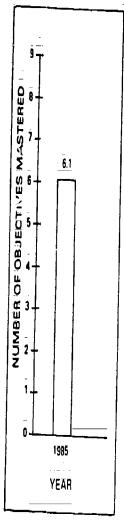
| Mathematics: | Percent: of | Students | Achieving | Mastery | For | Each | Objective

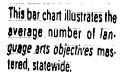


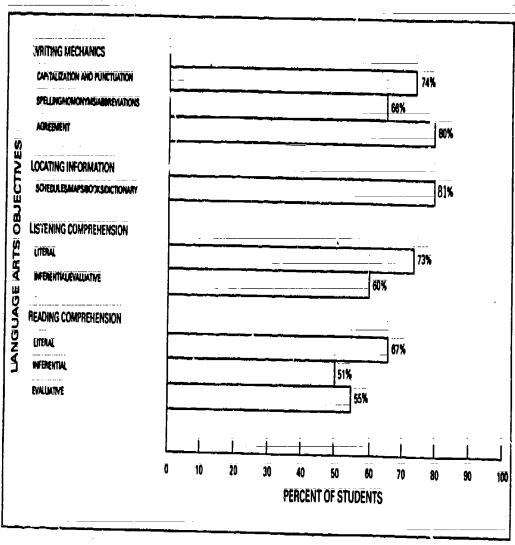
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LANGUAGE ARTS: AVERAGE NUMBER OF OBJECTIVES MASTERED

LANGUAGE ARTS: PERCENT OF STUDENTS ACHIEVING MASTERY FOR EACH OBJECTIVE



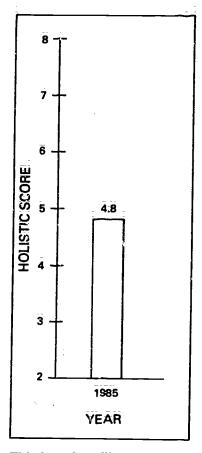




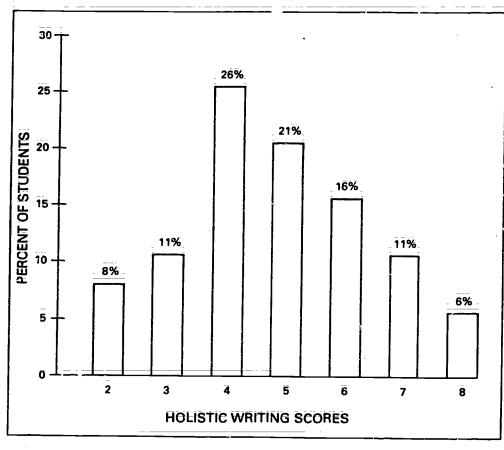
This bar chart illustrates the percent of students, statewide, who mastered each of the nine language arts objectives.

WRITING SAMPLE: AVERAGE HOLISTIC SCORE

WRITING SAMPLE: PERCENT OF STUDENTS AT EACH SCORE POINT



This bar chart illustrates the average holistic writing score of students, statewide.

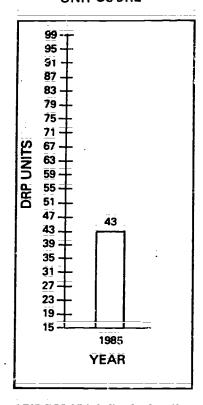


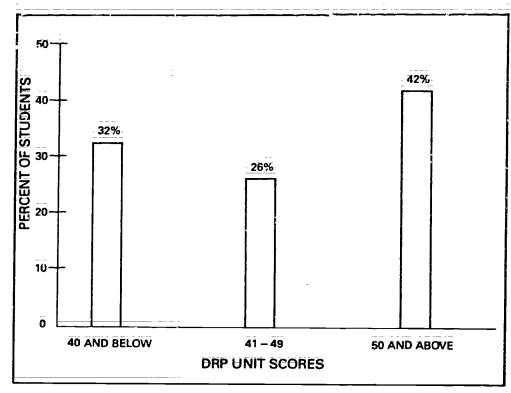
This bar chart illustrates the distribution of students who received each holistic writing score, statewide. Holistic writing scores are interpreted as follows: a student who scores 7 or 8 has produced a paper which is well written with developed supportive detail; a student who scores 5 or 6 has produced a paper which is generally well organized with supportive detail; a student who scores 4 is minimally proficient; and a student who scores 2 or 3 is in need of further diagnosis and possible remedial assistance.

Chart 3
Wilting Sample: Percent of Students at Each Score Point

DEGREES OF READING POWER® (DRP)®: AVERAGE DRP UNIT SCORE

DEGREES OF READING POWER® (DRP)®: PERCENT OF STUDENTS AT SELECTED RANGES OF DRP UNIT SCORES





This bar chart illustrates the average *DRP unit* score of students, statewide.

This bar chart illustrates the distribution of students, statewide, scoring in each of three Degrees of Reading Power (DRP) score categories. DRP score categories are interpreted as follows: a student who scores 50 DRP units or above can read, with high comprehension, materials which are typically used at grade 4 or above; a student who scores 41-49 DRP units can read, with high comprehension, materials which are typically used below grade 4 but above the Remedial Standard; and a student who scores 40 DRP units or below is in need of further diagnosis and possible remedial assistance.

Chart 4

Degrees of Reading Power: Percent of Students
At Selected Ranges of DRP Unit Scores



organized, well-supported piece of writing (a 7 or an 8 score), and an additional 37 percent produced a paper which is generally well organized (a 5 or a 6 score). Another large group, 26 percent, scored a 4, which is defined as a "minimally proficient piece of writing." A total of 19 percent of the students scored a 2 or a 3, which is below the remedial standard.

In reading, grade 4 students averaged 43 units on a scale of 15 through 99. The state's goal is that all students be able to read with high comprehension materials typically used at the fourth grade or above, that is, at least 50 on the scale. Chart 4 (p. 16) illustrates that 42 percent of the students scored at least 50 on the reading section, 26 percent scored between 41 and 49, and 32 percent scored below 41, which is the remedial standard. The average score of 43 suggests that Connecticut fourth graders typically can read, with high comprehension, materials normally used up to grade 4.

Test Results by District

Appendix H (p. 77) and Appendix I (p. 85) present a listing of the mathematics and language arts test results, respectively, for Connecticut school districts. School districts are listed alphabetically, followed by regional school districts. The Type of Community (TOC) designation in the second column indicates the group with which each district or school has been classified. A definition of the TOC classifications is provided in Appendix J (p. 93).

Because the most valid comparisons for district scores are longitudinal within each district, the State Department of Education advises against making school district comparisons. The following caution should also be noted:

o It is not appropriate or meaningful to sum across the different tests and subtests because of differences in test length and mastery and remedial standards. These comparisons are inappropriate since it is impossible to identify, solely on the basis of the above information, how the average student has performed in the districts being compared. Average scores and standard deviations provide more appropriate comparative information on how well the average student is performing, although many factors may affect the comparability of these statistics as well.

Participation Rate Results

Appendix K (p. 95) presents the number of fourth-grade students in each district and the percents of students who participated in the grade four mastery testing during the Fall 1985 statewide administration. The alphabetical listing of districts provides the following information for each district:

Column 1	The number of fourth-grade students on October 1 according to the ED-025.
Column 2 Column 3	The number of fourth-grade students at the time of testing. The difference between columns 1 and 2.
Column 4 Column 5 Columns 6-13	The number of students eligible for testing. The percent of eligible students exempted from testing. The percent and number of eligible students tested in each
COTUMNS O'13	content area.

The results in Appendix K illustrate that participation rates by school district on the fourth-grade CMT were quite high, with only a few exceptions



APPENDIX A Grade 4 Mathematics Objectives

Test Blueprint - Grade 4 Mathematics

The 25 objectives of the grade 4 mathematics test are listed below. There are four test items for each objective.

CONCEPTUAL UNDERSTANDINGS (28)

- *1. Identify the number one more, one less, ten more or ten less than a given number (4)
- *2. Extend patterns involving numbers and attributes (4)
- *3. Order whole numbers (4)
- *4. Rewrite numbers using expanded notation (4)
- *5. Rewrite numbers by regrouping tens and ones (4)
- *6. Identify fractional parts of regions and sets from pictures for halves, thirds, fourths and sixths (4)
- *7. Relate multiplication and division facts to rectangular arrays (4)

COMPUTATIONAL SKILLS (20)

- *8. Know addition and subtraction facts to 18 (4)
- *9. Add and subtract one- and two-digit numbers without regrouping (4)
- *10. Add one- and two-digit numbers with regrouping (4)
- *11. Estimate sums and differences to 100 (4)
- *12. Multiply and divide by 2, 5 and 10 (4)

PROBLEM SOLVING/APPLICATIONS (32)

- *13. Identify objects or numbers that do or do not belong in a collection, matrix or array (4)
- *14. Read and interpret bar graphs and pictographs (4)
- *15. Read and interpret data from tables and charts (4)
- *16. Identify or write number sentences from pictures (4)
- *17. Identify number sentences from addition or subtraction story problems (4)
- *18. Solve simple story problems involving addition or subtraction (4)
- *19. Solve and identify number sentences in simple story problems involving addition and subtraction, with extraneous information (4)
- *20. Identify needed information in problem situations (4)

MEASUREMENT/GEOMETRY (20)

- *21. Measure length and identify appropriate units for measuring length and distance (4)
- *22. Estimate lengths and areas (4)
- *73. Tell time to the nearest hour, half hour and quarter hour, using analog and digital clocks (4)
- *24. Determine the value of a set of coins (4)
- *25. Identify shapes, angles, and sides (4)



^{*}The asterisk indicates that performance on this skill is reported at the student, classroom, school, district and state levels.

()Number of items for each content area or objective

APPENDIX B Grade 4 Language Arts Objectives



Test Blueprint - Grade 4 Language Arts

There are nine multiple choice objectives and two holistic measures, one for reading and one for writing, within the grade 4 language arts test.

READING AND LISTENING

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Reading Comprehension (36)
```

- *1. Literal (12)
- *2. Inferential (14)
- *3. Evaluative (10)

*Degrees of Reading Power (56)

Listening Comprehension (20)

- *4. Literal (7)
- *5. Inferential & Evaluative (13)

WRITING AND LOCATING INFORMATION

```
*Writing Sample (1)
Writing Mechanics (36)
```

- *6. Capitalization and Punctuation (12)
- *7. Spelling Words, Homonyms and Abbreviations (9)
- *8. Agreement (15)
 - Verb Tense (5)
 - Subject Verb (5)
 - Pronoun Referents (5)
- *9. Locating Information (11)
 - -Schedules (3)
 - -Maps (3)
 - -Index and Reference (3)
 - -Dictionary (2)



^{*}The asterisk indicates that performance on this skill is reported at the student, classroom, school, district and state levels.

()Number of items for each content area or objective

Holistic scoring provided for all Grade 4 students. Analytic scoring provided for Grade 4 students who score below the remedial standard of 4 (on a scale of 2-8).

APPENDIX C Remedial (Grant) Standard-Setting Process



Remedial (Grant) Standard-Setting Process

Background

There are several acceptable strategies for setting standards on criterion-referenced tests. Each of the proposed methods has one or more unique characteristics. One common element to the various methods is that they all offer to the individuals who are setting the standards some process which reduces the arbitrariness of the resulting standard. Different methods accomplish this in different ways. All methods systematize the standard-setting process so that the result accurately reflects the collective informed judgment of those setting the standard.

Types of Standard-Setting Methods

. Standard-setting methods can generally be categorized into three types: test question review, individual performance review and group performance review. Test question review methods specify a procedure for standard setters to examine each test question and make a judgment about that question. example, standard setters might be asked to rate the difficulty or the importance of each question. These judgments are then combined mathematically to produce a standard. Individual performance review methods also require standard setters to make judgments, but the judgments are made on the basis of examining data that indicate how well individual students perform on test These data may be based on actual pilot test results or projected items. results using mathematical theories. In this method, additional student information, such as grades, may also be used to inform the standard setters. Group performance review methods provide for judgments to be made based on the performance of a reference group of students. That is, standard setters review the group performance and make a determination where the standard should be set based on the group results.

Selection of a Standard-Setting Method

Several factors affect the choice of a particular standard-setting method. The type of test is one consideration. For example, some methods are only appropriate for multiple choice questions or for single correct answer questions while other methods are more flexible. For example, time constraints are a consideration if student performance data are necessary. In this case, a pilot test must be conducted and the test results must be analyzed prior to setting the standards. Another consideration is the relative importance of the decisions that will be made on the basis of the standard. For example, a classroom test affecting only a few students would not require as stringent a procedure as would a statewide test determining whether a student is allowed to graduate from high school. Other relevant factors include the number of test items, permanence of the standard, purpose of the test, and the extent of available financial and other resources to support the standard-setting process.



On February 4, 1985, the Mastery Test Psychometrics Committee met to consider the issue of standard-setting procedures and voted unanimously to approve the following proposal.

A PROPOSAL FOR SETTING THE REMEDIAL STANDARDS ON THE CONNECTICUT MASTERY TESTS

- 1. Two standard-setting committees will be created: one for mathematics and one for reading and writing.
- This description of a minimally proficient student will be given to each of the committees:

Imagine a student who is just proficient enough in reading [writing, mathematics] to successfully participate in his/her regular fourth-grade coursework.

3.A In mathematics, an adaptation of the Angoff procedure will be used. The committee ill be provided with each item appearing on one form of the mathematics test. The committee will be given the following directions:

Consider a group of 100 of these students who are just proficient enough to be successful in regular fourth-grade coursework. How many of them would be expected to correctly answer each of the questions.

The committee will rate each item. The committee will then be given the opportunity to discuss their rating of each item. Sample pilot data will be presented. Committee members will be given the opportunity to adjust their item ratings. The item ratings will then be averaged in accordance with the Angosf procedure in order to produce a recommended test standard.

- 3.B In reading, the committee will review and discuss each passage of the Degrees of Reading Power (DRP) test. Student performance data will be presented. The committee will consider the reading difficulty that should be expected of a student at the grade level being tested. The committee members will identify the passage that has the appropriate level of reading difficulty consistent with the above description of a minimally proficient student.
- 3.C In writing, the committee will read four sample essays. These essays will have been prescored holistically (on a scale from 2 to 8) in order to rank the quality of the essays. Committee members will classify essays into one of three categories: 1) definitely NOT proficient, 2) borderline, and 3) definitely proficient. These classifications will be discussed in light of the holistic scores. The committee will then classify approximately twenty-five additional essays. The essay ratings will be discussed in the same manner as the original four essays. When all essays have been discussed, the essays which fell in the borderline category will be focused upon to determine the standard. The committee will determine where among the borderline essays, the standard should be established.
- 4. The standards recommended in step 3 will be presented to the Mastery Test Implementation Advisory Committee for discussion and action.



Connecticut's Strategy

Several steps were employed to create an acceptable and valid test standard for Connecticut tests. Initially, a separate standard-metting committee was convened for each test on which standards are to be set. Individuals were chosen to serve as members on the committee on the basis of their familiarity with the area being assessed and the nature of the examinees. One source of such members is the test content committees related to the project. For example, members of the Mathematics Committee were represented on the committee setting standards for the mathematics mastery test.

The actual procedures used to set standards were an adaptation of a method proposed by William Angoff (1970). This test question review method required members of a standard-setting committee to estimate the probability that a question would be correctly answered by examinees who possess no more than the minimally acceptable knowledge or skill in the areas being assessed. Standard setters then reviewed pilot test data for sample items as further evidence of the appropriateness of the judgments being made. The original probability estimates assigned to each test question were reviewed and adjustments made by the standard setters. The final individual item probabilities were summed to yield a suggested test standard for each member of the committee. The suggested standards were averaged across members of the committee to produce the recommended test standard.

The recommended test standard was presented to the Mastery Test Implementation Advisory Committee and the State Board of Education.

In mid-March, Mathematics and Language Arts Standard-Setting Committees met to set the remedial standards for the grade 4 mastery test. The following information summarized the results of the standard-setting activities conducted by CSDE staff:

I. Mathematics (100 item test)

Using the procedures previously outlined, the standard setters rated each item and considered the pilot data. Committee members discussed items and were given the opportunity to adjust their initial ratings. The final ratings were averaged to produce a remedial standard. It is recommended that a raw score of 69 be the remedial mathematics standard. Below is a summary of the ratings.

Procedure	# Judges	Range %	Mean % Correct	Raw Score
Angoff	21	56.7-81.3	68.7	68.7

II. Reading (Degrees of Reading Power, 56 item test)

Standard setters used two procedures to establish a remedial reading standard. First, they examined the passages in the Degrees of Reading Power (DRP) test, asking themselves which passage is too difficult for the student who is just proficient enough to successfully participate in fourth-grade coursework. Discussion occurred throughout this selection process.



Second, they examined textbooks which are typically used in grades 3 and 4 and selected those textbooks which a minimally proficient student would not be expected to read in order to successfully participate in fourth-grade coursework. Discussion occurred throughout this selection process.

The average readability values of the selected passages and textbooks and the pilot test data were then revealed to the standard setters. The standard setters discussed the readability values and the pilot test data and recommended the DPP unit score of 41 as the remedial standard. Below is a summary of the ratings.

Procedure	# Judges	Readability Range
A. Test Passage Review	17	42-48 DRP Units
B. Textbook Review	17	42-51 DRP Units

III. Writing (45 minute writing sample)

Using the procedure previously outlined, standard setters read and rated 21 essays written to a narrative prompt and 21 essays written to an expository prompt. After discussions and final ratings, the inlistic scores for the papers were revealed to the group. The committee then discussed the appropriate remedial writing standard in light of the degree to which their ratings matched the holistic scores. It was the recommendation of the committee that holistic writing score of 4 be used as the remedial writing standard. Below is a summary of the ratings.

	Rating A	fter Discussion	
Holistic	Definitely		Definitely
Score	NOT Proficient	Bordērlinē	Proficient
2	84%	4%	12%
3	37%	6%	57%
4	4%	4%	92%
5	_8%	6%	86%
6	20%	2 %	78%
7	4%	0%	96%
8	4%	2%	94."

Rating After Discussion

Holistic	Definitely		Definitely
Score	NOT Proficient	Borderline	Proficient
2	94%	0%	6%
3	33%	2%	65%
4	4%	12%	84%
5	0%	2%	98%
6	2%	4%	94%
7	0%	0%	100%
8	0%	0%	100%
		-27-	

-

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LANGUAGE ARTS STANDARD-SETTING COMMITTEE

Evelyn P. Burnham; Colebrook Public Schools Nicholas P. Criscuolo, New Haven Public Schools Mary R. Fisher; Thompson Public Schools Marguerite Fuller, Bridgeport Public Schools Anne Jackel, Thompson Public Schools Dorothy Kaplan; Middletown Public Schools Bob Lincoln; Tolland Public Schools Virginia Lity, Bridgeport Public Schools Virginia Manulls, Colebrook Public Schools

Noreen McDermott, Hartford Public Schools Elizabeth Nelligan, Canton Public Schools Dorothy Nevers, Canton Public Schools Carol D. Parmelee, Middletown Public Schools Beverly R. Peterman, Stamford Public Schools Gera dine Smith, Canton Public Schools Robert Kinder, CT Department of Education Mary Weinland, CT Department of Education

MATHEMATICS STANDARD-SETTING COMMITTEE

Betsy Andersen, Manchester, Connecticut
Geraldine M. Cemprola, Ridgefield Public Schools
Linda Cherry, Suffield Public Schools
Elizabeth B. Cubeta, Middletown Public Schools
Corretta K. Dean, Bridgeport Public Schools
Tony Ditrio, Norwalk Public Schools
Anita Gaston, Bloomfield Public Schools
Janet Heintz, Farmington Public Schools
Mary Anna Keough, Meriden Public Schools
Wesley Masten, Horwalk Public Schools
Irene B. Moriarty, Meriden Public Schools

Pamela Munro, Windham Public Schools
Eileen O'Reilly, Manchester Public Schools
Lois Piper, Norwalk Public Schools
Twila Pollard, New Haven Public Schools
Rosemary Powers, Bloomfield Public Schools
Sylvia E. Webb, Middletown Public Schools
George A. Wells, New Haven Public Schools
Frank K. Whittaker, Bridgeport Public Schools
Betsy Carter, CT Department of Education
Steven Leinwand, CT Department of Education



APPENDIX D

Marker Papers for Holistic Scoring

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WRITING ELL IPLE

31322

Ther was a home Ther was
a boy who was staying Ther
for a hight he saw a bat and a
5 Kon Toin to be heard a gost he was
5 Kird ne Wanted To gohome
but The door Lock Then he went to
awindow Then he hit The Window
then hegotout Thon he heard
a gost The he can home To Tellhis
mom anddad Then he sad Im goin
to bed in the moring he tould has
Siter no way tom
Title Facilities
The End
Score Point: 1
This paper is a list of undeveloped activities; it is an outline of a
This paper is a list of undeveloped activities; it is an outline of a
This paper is a list of undeveloped activities; it is an outline of a story. The details are sparse, and there is little tying of one idea to
This paper is a list of undeveloped activities; it is an outline of a story. The details are sparse, and there is little tying of one idea to
This paper is a list of undeveloped activities; it is an outline of a story. The details are sparse, and there is little tying of one idea to
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This paper is a list of undeveloped activities; it is an outline of a story. The details are sparse, and there is little tying of one idea to

Å 5 ==== 1 == 1 === 1
- A spocy va cation
One night - I slent in a
hunted. When we got there was
went in the got there we went in the was time for hed
when we got there. We went to
bed and saw posti Mi brother
pothing. My prother soid what ho
happend. They said Go to sleep."
Then there was a big bat flying
around. Then the beds tiped up we
went falting down a tunnel. We
were, in some sort of mom. I
relled and my parents viere
here. Then there was a tree
brack came throw the most We
Score Point: 2
This is an example of a narrative with limited extension (elaboration). The
writer introduces new elements into his story but does not develop them so
that his response becomes list-like.
age 5 39



1 to	ne night at a costume party ld my friends what happene
hount	night when I slept in a ted house I told them how melled, surful I was almost
aste	puhen weeka door opened ind me
1 strat	went to look to see if anyone there but nobody was I took
of t	he soon was a big white til tried to touch him but
maj	hand went right through hird
alit	the better nour I tried search a way out, but there was none
	got so tired I just fell put the sound
found	don I opened the door and I was outside and then home leaving my stuff
there	so I wouldn't have to
SCORE POINT:	3
Page 5	· 10

Score Point: 3

There is a good sense of control and balance of narrative elements in this story. The writer implements narrative framing by the use of the creaking door. There is logical progression with some elaboration but the narrative needs more development in order to be in score point 4 range.



Page 5 42



SCORE POINT: Page 6 43

Score Point: 4

The writer demonstrates a narrative plan by beginning with the history of the house as background information then progressing to the narrative itself which concerns visiting the house. There is good attention to detail and varied word choice. The paper is well-organized and the storyline is controlled. There is some uneven development in the last two paragraphs of the story but this compositional weakness is compensated by the strengths of the rest of the response.



APPENDIX E

Analytic Rating Guide and Marker Papers for Analytic Scoring

-37- 45

ANALYTIC RATING GUIDE

FOCUS: How effectively does the writer unify the paper by a dominant topic?

- 1 = switches and/or drifts frequently from the dominant topic
- 2 = switches and/or drifts somewhat from the dominant topic
- 3 = stays on topic throughout the response

ORGANIZATION: Is there a plan that clearly governs the sequence from the beginning to the end of the response and is the plan effectively signaled?

- 1 = no discernible plan
- 2 = inferrable plan and/or discernible sequence; some signals may be present
- 3 = controlled, logical sequence with a clear plan

SUPPORT/ELABORATION: To what extent is the narrative developed by details that describe and explain the narrative elements (character, action, and setting)?

- 1 = vague or sketchy details that add little to the clarity of the response
- 2 = details that are clear and specific but are list-like, or uneven or not developed
- 3 = well-developed details that enhance the clarity of the response

SENTENCE FORMATION: Are sentences correctly formed?

- 1 = many run-ons, "on-and-ons," fragments, and/or awkward constructions-may cause confusion
- 2 = some run-ons, "on-and-ons," fragments, and/or awkward constructions--may cause confusion
- 3 = few errors and/or awkward constructions -- no confusion

MECHANICS: To what extent does the student use the conventions of standard written English (e.g. spelling, usage, capitalization, punctuation)?

- 1 = many errors
- 2 = some errors
- 3 = few errors



Analytic Component:

FOCUS

Note: Since no fourth-grade student received an analytic rating of 1 in the category Focus, a marker paper is not available for that analytic score point.

-39-

47



48

One night more the trained and
One night may the freinds and I splint a might in the object
scarley house in Journ when
we wan that by the house we thout
of my friends brout they dog.
But when we say the tra black
bats we new wit west poing to
be safe Bur Meleson dog sould them away when we went
thru the gateand up the store
5 saw that the door was no
light. Melesa told her dog to
go in frist beetse he was brown
merry told us her dog s name
then she promest to tell, is
when his dog comes out letten
nome was corie corre was a
male dog We when sale that
night when love was there In
the morning we found out
trainted house.
Score Point: 2

Page 5

Score Point 2:

The writer drifts somewhat from the main theme (spending a night in the scariest house in town) and concentrates instead on the day's physical attributes ("he was brown and it was a collie . . . Corie was a male dog") and the dog's name ("Melesa never told us her dog's name then she promest to tell us when her dog comes out . . ."). The main theme is never completely developed so that the drift is more noticeable.



•
"The night of spent in that house
was terrible, there were loud noise
howls, screams, I was just sitting ther
scared stiffed didn't like it one
- Lit.
Then I got out if bed looked
Then I got out of bed looked out the window, it was raining
hard shen I saw a cometery of two
so dark & could only see the headston
of the graves.
The next morning I looked out the
window it was wet, but it was
summy out. I felt a little better
after what happend last night. Ther
Went downstains to have breakly
(I brought my nun breakfast) when
I was done, I went back upstairs to
pack my stuff and went hame.
Score Point: 3
The writer stays on topic throughout the response; the paper is unified
by the dominant topic: "the night I spent in that house."

Analytic Component:
ORGANIZATION

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CONNEC	TI:	C	UT	M	A	ST	EF	Y	TES

In the house that I stayed at. That was Losts of bats one even all most bited me I saw mice to they tided my diner. Then when I was I saw skeletor that was mice allowerst and spider webs to and the skeleter like gasoline I heard piano playing I went to it I saw a cute kitten on the piano. I hen I went to sleep for the Then in the
morning I went home.
Score Point: 1
The writer has no discernible plan; the sentences can be rearranged in any order as the ideas are not linked into a plan.
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Page 5

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Interior taffer dinner wait letine Start again my name is Billy and Threin Freeport Mani - withmy Mather and Father One night After my parents had said Another my parents had the Strange Aream I drempt that Thead the Sleep in ahantua house with ghosts and goblens boycias I scared I tried toget help But knowne was there Then I saw a door up some Stairs So I tried towalk up them but they turned into a slide and I shid right down. The house was fall of spiten webs then I wake up and I was shome in Manie were I Belong. Score Point: 2 There is an inferable plan, the signals are present with a sequence of events but the writer needs to reorganize his writing in order to improve fluency. There are two sentences inscreted in the text which are not in	
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There is an inferable plan; the signals are present with a sequence of events but the writer needs to reorganize his writing in order to improve ———	The end
events but the writer needs to reorganize his writing in order to improve	Score Point: 2
	There is an inferable plan; the signals are present with a sequence of
fluency. There are two sentences inserted in the text which are not in	· · · · · · · · · · · · · · · · · · ·
	fluency. There are two sentences inserted in the text which are not in
logical sequence: ("I tried to get help but know one was there"; "The house	logical sequence: ("I tried to get help but know one was there"; "The house
age 5 was full of spit (ebs.") 53	

the night in the scary house
-ITTE TIGHT IN THE SCALY MOUSE
My friend scott and I
spent a night in a scary house The went in it looked scary
The went in it looked Scary
Le saw a lot of spiters and
bots. We un packed after
that we went up stars we
herd ghost Sounds for dinner
We ent pizza then we went
to bed we put are money on
the table when we got up
Sport the bala day larking for
the money was gone we spent the hole day looking for the robber at the end of
the day We found the rapper
the day we found the robber we took him to the Police
then we went home.
Score Point: 3
The writer has a controlled, logical sequence with a clear plan. Every
idea is in a correct logical sequence.
54

Analytic Component:

SUPPORT/ELABORATION

Note: Since no fourth-grade student received an analytic rating of 3 in the category Support/Elaboration, a marker paper is not available for that analytic score point.

it Guy How are you doing!
Will die de la constant de la consta
did you know I seent the
might at oldest house in
the town heard stage moises lick
dous realized bats; and it
sour monstere and whoits
el was chard death o
line of lell throughthe wouth
banch fell through routh!
last but not seast trop
doors and others the
barnert and the attiac
was the somet pant in
the House and it was scary!
and them do you know
what happend!
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
- Line in the last of the last
· · · · · · · · · · · · · · · · · · ·
This is a fanconstin

Page 5

Perducking



Score Point: 1

This response contains sketchy details which add little to the clarity of the response. The paper is almost a vocabulary list of scary house terminology ("bats, ghosts, trap doors, attic was the scariest").



58

Ones their was a haunte
house, One day me
and my treindessurves
steet and we sa
steet and we sa
a haunted house and
we went up thier and
went in side to see
and to start their and
and my freindes told one to stay their one night and if I did not
thy wood not be mil
tréindes so el stance 11
was scarey of here walking
things braking and el
sari a ghost picking up
thing and I rudy scared
rome and some one
TUGS- Diephing in mit
bed and I went to the
other rome and it
was a momy in their
50 went bown steins
and saw something
The mit to stade tour and
Page 6

2/	ne thing rugs holding
	so d wolfe up
15	
	Score Point: 2
	The details in this response are clear but not evenly developed. The
	writer uses non-specific details: "things braking a ghost picking
	up thing something moving something was holding me." The
	details are not well-developed and do not enhance the clarity of the
	response
<u></u>	
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	59



THE PERSON NAMED IN COLUMN

Analytic Component:
SENTENCE FORMATION

GRADE 4

WRITING SAMPLE

3134

	•
It was a cold no	ght my frends, and I took
o rialk down to	a oldspooky house
	wanted to go in
	livesaw brokin alges
and spiders	
Then the door	shut now we were
trapped inside.	Then we herd a
wich She said	now your trapped
Oh no my fried	said lets use the phone
he poked up the	Phone of nothe phone
is dead. Thenw	e saw a bat it turned
	er hesaid and now a got you
	124, we got the doct
open and wener	verwentbackther again.
Score Point: 1	
This response contains many run-	-ons which cause some confusion.
	<u></u>
<u> </u>	
	
	
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age 5	61
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to derice may friends talking about this How to force, mo one was gone in it I said a you will tonight it moving in the word stay over might and you arm't going to do any thing a Bought it, that a fill may be all squirt get with black from coloring of ped it in my bag. I panted may basefall the color of a brand of a brand high with badies gut my book in side, may pillar inside and my sluging bag it meanant the door it sasted words.
Score Point: 2
In this paper there are some run-ons causing some confusion to the reader.

CONNECTICUT MASTERY TEST		· ;		
A spocy vo	ca tion		<u></u>	
One night spoocy house. hunted. When	My bro	slept ther the	in a out it	wās.
	was there.	ime f	or beo	l to Her
pothing. They	prother soid	Said Ga to	uha slee	
around then	the down	beds	tiped unnel	\K 1
here Then	M	parents	tree We	
Score Point: 3 This response contains few erro		re is no confu	sion Most of	
the sentences are correctly for		ic_is_nc_confu	STOIL POST OF	

Analytic Component:
MECHANICS

...



The strage Thing
One night after dinner) wait letine
Start again my name is Billy and
I live in FreePort Mani = Withmy
mother and Father. One night
after my Parents had soid
good night tome I had the Strange
Idream I drempt that I had
the sleep in a hantuck house
with ghosts and goblens Boywas
I scared I tried togethelp But knowone was there. Then
I saw a door he some stairs
So I tried towalkup the mout
they turned into a Slide and
I stiel right down. The house
Was Full OF Spiten webs
Then I Wake UP and I washome
inmanie wer Belongo
Thomas
1116
Score Point: 1
This paper has many errors in meshories: her mation relling and usage.
Page 8



The Oldest House in Town
One day my fixings and I were planning to go
to the Oldest House in Town. That night we went to
the house when we got there we were scould wen
in bravily with all smelled something. Then Tol said he
heard something. Tool and Thon checked the Litherallhe
they got back they said it was only a skunt.
Mean while Andrew Starr Went his
way. Andrew Saw something move. He went to
it out. He tripped and fell face first. All these
- facing things jumped on him. Andrew screened,
"Help I'm being atteted by fur palls!"
One day passed now and were lea-
- Ving. That night at home I thought Andrew is having
a nervous break down.
Score Point: 2
This response has some errors in spelling and punctuation.
66

CONNECTICUT MASTERY TEST

·
It was the oldest house in
town 17 was darkand scary.
- hylaren thout it was haunted
the house had a broken tence
around it there were two holes in
the root and there were spider webs
in it and inside there were six
rooms the living room, the dinner room.
There was a big pinanoin the livingroom.
there also was a big dresser with eight
diats in it.
Score Point: 3
There are few errors in mechanics. The writer has a good command of the
convention's of written standard English.
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Page 5

APPENDIX F

Sample Grade Four Mastery Test Score Reports

- o Class Diagnostic Report
 - Mathematics
 - Language Arts
- o School by Class Report
 - Mathematics
 - Language Arts
- o District by School Report
 - Mathematics

- Language Arts
- o Parent/Student Diagnostic Report

APERDEA FORM A	CONNECTICUT MACTERY TECTING DOM	יייייייייייייייייייייייייייייייייייייי		CLASS DIAGN	OSTIC REPORT	MATHEMATICS -
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SCHOOL DISTRICT X A	GRADE 4 FORM A	R A A E	[\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		PAGE 1
LARE ELERISTRAY MSS. SMITH TESTING DATE: 10-48 NUMBER OF STUDENTS NEEDING FURTHER DIAGNOSS IN MATHEMATICS: 2 ***MATHEMATICS: 08-ECTIVES TESTED: 22 ***NUMBER OF STUDENTS NEEDING FURTHER DIAGNOSS IN MATHEMATICS: 08-ECTIVES TESTED: 00-886T1 ***DETERMINE AND MODELESS THAN A NUMBER OF THAN A NUMBER OF THAN A NUMBER OF THAN OF THAN A NUMBER OF	1	E/N/I/E/	N/ Y/ H/ E/ 1	(\ 1\ E\ 1\ N\ E\	ALOLR OLOLNILL L	
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23. TELL TIME 24. DETERMINE VALUE OF A SET OF COINS 25. DESTRIBUTE STANDARD 26. OF 100 10. WATHEMATICS REMEDIAL STANDARD 27. TOTAL NUMBER OF DISCOVERS MASTERED 28. OF 100 19. B6 41. 93 175. 93 18. 82 40. 91 178. 95 19. B6 41. 93 175. 93 19. B6 41.		3 OF 4	4 3 2 2	ब इ र ब ब ब ब	बि अ अ ब अ ब ब ये ब ब ब ब ब	20/ 91 38/ 86 164/ 87
24. DETERMINE VALUE OF A ST OF COINS 25. DENTIFY SHAPES/ANGLESIDES 3 OF 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	22. ESTIMATE LENGTH/AREA	3 OF 4	3344	4 3 4 3 4 4	342434443344	
25 OENT'LY SHAPES/ANGLE SIDES 3 OF 4 6 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4			4 3 4 3	4 4 3 4 4 4	1 3 3 4 4 4 4 4 4 4 4 4 3 1	
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	INCICATES A SCORE BECON THE REMEDIAL STANDARD. THIS STUDENT MUST RECEIVE FURTHER DIAGNOSIS.	•	and the second	gaing signal processing person in an and an analysis of the second second	COPYRIGHT @1985 BY	

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CLASS DIAGNOSTIC REPORT LANGUAGE ARTS CONNECTICUT MASTERY TESTING PROGRAM M-M PAGE 1 R\ 1 GRADE 4 FORM A SCHOOL DISTRICT X LANE ELEMENTARY cs\c\n' MR. JONES 002 TESTING DATE: 10-85 NUMBER OF STUDENTS TESTED: NUMBER OF STUDENTS NEEDING FURTHER DIAGNOSIS IN WRITING: IN READING: 5 NUMBER/PERCENT OF STUDENTS MASTERY MASTERING EACH OBJECTIVE CRITERIA CLASS SCHCOL DISTRICT # OF ITEMS LANGUAGE ARTS OBJECTIVES TESTED #/% 11/4 17% CORRECT WRITING MECHANICS 12 12 12 12 11 12 12 12 12 12 12 12 12 39/89 168/ 90 10 11 13 14 10 14 14 11 21 95 9 OF 12 6 12 CAPITALIZATION & PUNCTUATION 19/ 86 40/ 91 149/81 7 OF 9 2. SPELLING, HOMONYMS, AND **ABBREVIATIONS** - 5 15 15 14 14 15 1월 13 13 15 15 14 15 9 15 15 14 15 14 20/ 91 37/ 84 171/ 92 **AGREEMENT** 11 OF 15)# 15 15 1**3** (VERB TENSE, SUBJECTIVERB. AND PRONOUN REFERENTS) 39/ 89 | 170/ 91 6 11 11 11 20/ 91 8 OF 11 8 11 11 11 11 11 11 9 10 11 4. LOCATING INFORMATION 11 11 (SCHEDULES, MAPS, TABLE OF CONTENTS & TITLE PAGE, AND DICTIONARY) LISTENING COMPREHENSION 39/ 89 163/ 88 20/ 91 3 OF 7 6 7 5 8 12 10 LITERAL 145/ 78 13 10 13 11 18/ 82 37/ 84 9 OF 13 13 11 11 11 13 12 13 12 10 INFERENTIAL & EVALUATIVE READING COMPREHENSION 10 11 12 11 11 11 11 12 6 12 10 12 10 12 36/ 82 | 158/ 84 7 12 7 8 10 10 18/ 82 8 OF 12 12 12 10 10 12 12 11 12 11 11 6 LITERAL 33/ 75 137/ 73 12 11 12 14 12 14 11 16/ 73 10 OF 14 12 INFERENTIAL 16/_73 31/ 70 | 147/ 78 7 OF 10 **EVALUATIVE** AVERAGE # OF OBJECTIVES MASTERED TOTAL NUMBER OF OBJECTIVES MASTERED 7.5 - 7.5 7.6 to strong with an office of Adia is NUMBER/PERCENT OF STUDENTS REMEDIAL **BELOW REMEDIAL STANDARD** STANDARD HOLISTIC MEASURES OF WRITING AND READING 10/ 23 15/ 8 WRITING SAMPLE 4 OF 8 ANALYTIC WRITING INFORMATION** FOCUS ORGANIZATION SUPPORT/ELABORATION MECHANICS SENTENCE FORMATION 41 URP DEGREES OF READING POWER (DRP) 30/ 16 ONITS: 61 33 21 76 61 64 38 11/ 25 68 43 59 3299+ 68 68

* 1 = NEEDS REMEDIAL ASSISTANCE 2 = BORDERLINE PERFORMANCE 3 = SATISFACTORY PERFORMANCE

71

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MINDICATES A SCORE BELOW THE REMEDIAL STANDARD. THIS STUDENT MUST RECEIVE FURTHER DIAGNOSIS.

**ANALYTIC WRITING INFORMATION IS GIVEN ONLY FOR THOSE STUDENTS WHO SCORED BELOW THE REMEDIAL STANDARD.

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THE PSYCHOLOGICAL CORPORATION

A CONDOBATION

MATHEMATICS

GRADE 4 - FORM-A-

PAGE 1

GRADE 4 - FORM A - SCHOOL DISTRICT X LANE ELEMENTARY			_			- -				PAGE	1
TESTING DATE: 10-85	_			-	1				-		
SCORES REFLECT NUMBER/PERCENT OF STUDENTS MASTERING EACH OBJECTIVE		RCOM #001	ROOM - #002							SCHOOL	DISTRICT
NUMBER OF STUDE AT A SETED		22	22							44	189
MATHEMATICS OF ECTIVES TESTED	MASTERY CRITERIA	#/%	#/%	#1%	#/%	#/%	#/%	#/%	#1%	#/%	#/%
CONCEPTUAL INDERSTANDINGS DETERMINE AND 10 MORE/LESS THAN A NUMBER EXTEND PATTERNS ORDER WHOLE NUMBERS REWRITE NUMBERS WITH EXPANDED NOTATION REWRITE NUMBERS BY REGROUPING DENTIFY FRACTIONAL PARTS RELATE MULT/DIV FACTS TO PICTURES	3 OF 4 3 OF 4 3 OF 4 3 OF 4 3 OF 4 3 OF 4	21/ 95 19/ 86 21/ 95 20/ 91 11/ 50 14/ 64 14/ 64	18/ 82 20/ 91 20/ 91 15/ 68 19/ 86							43/ 98 37/ 84 41/ 93 40/ 91 26/ 59 33/ 75 27/ 61	170/ 90 179/ 95 180/ 95 125/ 66 151/ 80
COMPUTATIONAL SKILLS 8. ADD/SUBTRACT FACTS TO '8 9. ADD/SUBTRACT WITHOUT (LEGROUPING) 10. ADD WITH REGROUPING 11. ESTIMATE SUMS/DIFFERENCES 12. MULTIPLY/DIVIDE BY 2, 5, 10	3 OF 4 3 OF 4 3 OF 4 3 OF 4 3 OF 4	18/ 82 22/100 21/ 95 10/ 45 19/ 86	22/100 20/ 91							39/ 89 44/100 41/ 93 20/ 45 41/ 93	184/ 97 178/ 94 101/ 53
PROBLEM SOLVING/APPLICATIONS 13. IDENTIFY OBJECTS/NUMBERS IN ARRAYS 14. READ/INTERPRET GRAPHS 15. READ/INTERPRET TABLES 16. IDENTIFY NUMBER SENTENCES FROM PICTURES 17. IDENTIFY NUMBER SENTENCES FROM PROBLEMS 18. SOLVE STORY PROBLEMS WITH ±/- 19. SOLVE STORY PROBLEMS WITH ±/- 20. IDENTIFY NEEDED INFO IN PROBLEMS	3 OF 4 3 OE 4 3 OF 4 3 OF 4 3 OF 4 2 OF 4 3 OF 4	19/ 86 20/ 91 18/ 82 15/ 68 20/ 91 17/ 77 19/ 86 16/ 73	20/ 91 21/ 95 18/ 82 22/100							41/ 93 40/ 91 39/ 81 33/ 25 42/ 95 38/ 86 40/ 91 36/ 82	181/ 96 176/ 94 143/ 76
MEASUREMENT/GEOMETRY 21. MEASURE LENGTH/IDENTIFY UNITS 22. ESTIMATE LENGTH/IAREA 23. TELL TIME 24. DETERMINE VALUE OF A SET OF COINS 25. IDENTIFY SHAPES/ANGLES/SIDES	3 QE 4 3 QE 4 3 QF 4 3 QF 4 3 QF 4	20/ 91 19/ 86 18/ 62 19/ 86 21/ 95	18/ 82 14/ 64 22/100 22/100 22/100							38/ 8 33/ 7: 40/ 91 41/ 93 43/ 98	164/ 8: 153/ 8: 178/ 9: 154/ 9:
AVERAGE NUMBER OF OBJECTIVES MASTERED NUMBEROPERENT OF STORENTS BELOW BENEFICE STANDARD	A. N. West in	20.5	22.0	anace geometr	Abs Mass and	hobat i na ciao	Maria Sia apo XII	ese successi	intico mais oriente de monto	21.3	22.0

*PEMEDIAL STANDARD IS 89 OF 100 ITEMS CORRECT.

NUMBER/PERCENT OF STUDENTS BELOW REMEDIAL STANDARD

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LANGUAGE ARTS

GRADE 4 FORM A SCHOOL DISTRICT X LANE ELEMENTARY

PAGE 1

THE PSYCHOLOGICAL CORPORATION

TESTING DATE: 10-85

SCORES REFLECT NUMBER/PERCENT OF			ROOM #002					•		- -	-	
STUDENTS MASTERING EACH OBJECTIVE		#00 1						ļ		SCHOOL	DISTRICT	
NUMBER OF STUDENTS TESTED	-	22	22							44	189	
LANGUAGE ARTS OBJECTIVES TESTED	MASTERY CRITERIA	#1%	#/%	#1%	#/%	#/%	#/%	#1%	#1%	#1%	#7%	
WRITING MECHANICS											1	
1. CAPITALIZATION & PUNCTUATION	9 OF 12	18/ 82	21/ 95				ĺ		1	39/ 89	168/ 9	
2. SPELLING, HOMONYMS, AND ARBREVIATIONS	7 OF 9	21/ 95	19/ 86			ĺ	i	İ		40/ 91		
3. Agreement	11 OF 15	17/ 77	20/ 91			ŀ				37/ 84		
(verb tense, subject/verb,										1		
AND PRONOUN REFERENTS)								ļ				
4. LOCATING INFORMATION	8 OF 11	19/ 86	20/ 91					ļ		39/ 89	170/ 9	
(SCHEDULES, MAPS, TABLE OF CONTENTS &	(i		j		
TITLE PAGE, AND DICTIONARY)	i									i	ļ	
LISTENING COMPREHENSION 5. LITERAL									j	l		
B. INFERENTIAL & EVALUATIVE	5 OF 7	19/ 86	20/ 91						İ	39/ 89		
READING COMPREHENSION	9 OF 13	19/ 86	18/ 82					i	ŀ	37/ 84	145/ 76	
7. LITERAL	1 1	157 54	أنورون									
B. INFERENTIAL	8 OF 12	18/ 82	18/ 82					1		36/ 82		
D. EVALUATIVE	10 OF 14	17/ 77	16/ 73							33/ 75		
. Acada managar	7 OF 10	15/ 68	16/ 73						1	31/ 70	147/ 7/	

HOLISTIC MEASURES OF WRITING AND READING

#/ % OF STUDENTS AT STATED LEVEL

WRITING SAMPLE			***************************************	A chidology MA	The state of the s	AND AND A SALIS	ON THE PROPERTY OF		The District Court of the Court	20.00 cg/2000 200 200 200 200 200 200 200 200 20	Advantage and Advantage and
NUMBER/PERCENT PRODUCING MATERIAL THAT IS:	HOLISTIC SCORE	#7%-	#/%=	₩/ %	#7%	#/%	#/%	#/%	-#/%	<i>∓,</i>	#/%
WELL WRITTEN W. DEVELOPED SUPPORTIVE DEVAIL	/ OR 8	4/ 18	4/ 19		F		 	- m · · ·	# · · · · · · · · · · · · · · · · · · ·	8/ 19	
GENERALLY WELL ORGANIZED W. SUPPORTIVE DETAIL	OR 6	6/ 27					<u> </u>			16/ 37	
MINIMALLY PROFICIENT		6/ 27	3/ 14							9/ 21	
BELOW REMEDIAL STANDARD*	2 OR 3	6/ 27	4/ 19							107.02	157 6
	AACT - 1700 5750	1000		West Meeting	THE THOUSENESS	THE PROPERTY OF THE PARTY OF TH	SANCONS RECORD	HODENESS.	MARKANANAN MAKANA	A. C.	ANN MARKET AND
DEGREES OF READING POWER(DRP). NUMBER/PERCENT COMPREHENDING MATERIALS:	DRP UNIT SCORE	#/%	#/%	#/%	#7%	#7%	#7.%	#1%	#7%	#1 g	#75
TYPICALLY USED AT GRADE 4 OR HIGHER	50+	7/ 32	15/ 68							22/ 50	
Typically used below grade 4 but above The remedial standard	41 70 49	9/ 41	2/ 9							11/ 25	
BELOW RENEDIAL STANDAL D"	BELOW 41	6/ 27	5/ 23					<u> </u>	AH, 0 and	11/ 25	
AVERAGE SCORES	and the backlist on	is on Mario	existation of the	ajota Book	akerus leesiik al	the selection history	Assat Latin was	aterio i Signaci	and a second of the	o Tarley Da Mari	

	h filotopensky de	MANAGEMENT OF THE	DECEMBER ENGINEER	COM MARCHANING IN	State parties No. 17 Commission	BERTALLES ACCORDENCES DE LA CONTROL DE LA CO	al Living Labor (78)
AVERAGE HUMPER OF OBJECTIVES MASTERED IN CARGUAGE ARTS	7.4	7.6				7.5	7.5
AVERAGE HOLISTIC WRITING SCORE	4.6_	5.0				4.8	5.6
AVERAGE DRP UNIT SCORE	43	50				- 25	40

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*REMEDIAL STANDARD IS 4 FOR WRITING.

**REMEDIAL STANDARD IS 41 DRP UNITS FOR READING



MATHEMATICS

GRADE 4 FORM A

PAGE 1

HE PSYCHOLOGICAL CORPORATION

SCORES-REFLECT NUMBER/PERCENT OF STUDENTS MASTERING EACH OBJECTIVE NUMBER OF STUDENTS TESTED MATHEMATICS OBJECTIVES TESTED CONCEPTUAL UNDERSTANDINGS 1. DETERMINE 1 AND 10 MORE/LESS THAN A NUMBER 2. EXTEND PAITERNS	ELE MASTERY CRITERIA	ELE MENTARY 44	EL Mentary	EL Ementary	EMENTARY			-	<u> </u>		
SCORES REFLECT NUMBER/PERCENT OF STUDENTS MASTERING EACH OBJECTIVE NUMBER OF STUDENTS TESTED MATHEMATICS OBJECTIVES TESTED CONCEPTUAL UNDERSTANDINGS 1. DETERMINE 1 AND 10 MORE/LESS THAN A NUMBER 2. EXTEND PAITERNS		HENTARY		EMENTÁRY				-			
STUDENTS MASTERING EACH OBJECTIVE NUMBER OF STUDENTS TESTED MATHEMATICS OBJECTIVES TESTED CONCEPTUAL UNDERSTANDINGS 1. DETERMINE 1 AND 10 MORE/LESS THAN A NUMBER 2. EXTEND PATTERNS		HENTARY	MENTĀRY								
STUDENTS MASTERING EACH OBJECTIVE NUMBER OF STUDENTS TESTED MATHEMATICS OBJECTIVES TESTED CONCEPTUAL UNDERSTANDINGS 1. DETERMINE 1 AND 10 MORE/LESS THAN A NUMBER 2. EXTEND PATTERNS						1		l			
MATHEMATICS OBJECTIVES TESTED CONCEPTUAL UNDERSTANDINGS 1. DETERMINE 1 AND 10 MORE/LESS THAN A NUMBER 2. EXTEND PATTERNS 3. ORDER WHOLE NUMBERS 4. REWRITE NUMBERS WITH EXPANDED NOTATION	MASTERY CRITERIA	44								·	
MATHEMATICS OBJECTIVES TESTED CONCEPTUAL UNDERSTANDINGS 1. DETERMINE 1 AND 10 MORE/LESS THAN A NUMBER 2. EXTEND PATTERNS 3. ORDER WHOLE NUMBERS 4. REWRITE NUMBERS WITH EXPANDED NOTATION	MASTERY CRITERIA	94	=:		7.7					DISTRICT	
CONCEPTUAL UNDERSTANDINGS 1. DETERMINE 1 AND 10 MORE/LESS THAN A NUMBER 2. EXTEND PATTERNS 3. ORDER WHOLE NUMBERS 4. REWRITE NUMBERS WITH EXPANDED NOTATION	CRITERIA		36	30	42	37				189	
1. DETERMINE 1 AND 10 MORE/LESS THAN A NUMBER 2. EXTEND PATTERNS		#/%	#/%	#/%	#/%	#/%	#/%	#/%	#/%	#1%	-
8. IDENTIFY FRACTIONAL PARTS 7. RELATE MULT/DIV FACTS TO PICTURES COMPUTATIONAL SKILLS 8. ADD/SUBTRACT FACTS TO 18 8. ADD/SUBTRACT WITHOUT REGROUPING 10. ADD WITH REGROUPING 11. ESTIMATE SUMS/DIFFERENCES 12. MULTIPLY/DIVIDE BY 2, 5, 10	3 OF 4 3 OF 4	43/ 98 37/ 84 41/ 93 40/ 91 26/ 59 33/ 75 27/ 61 39/ 89 44/100 41/ 93 20/ 45 41/ 93	33/ 92 31/ 86 34/ 94 35/ 97 24/ 67 31/ 86 22/ 61 35/ 97 35/ 97 34/ 94 15/ 42 34/ 94	30/100 28/ 33 30/100 30/100 20/ 67 24/ 80 21/ 70 29/ 97 29/ 97 27/ 90 22/ 73 28/ 93	40/ 95 39/ 93 40/ 95 40/ 95 34/ 81 34/ 81 32/ 76 41/ 98 42/100 40/ 95 23/ 55 42/100	37/100 35/ 95 36/ 92 35/ 95 21/ 57 29/ 78 24/ 65 34/ 92 34/ 92 36/ 97 21/ 57 33/ 89				183/ 97 170/ 90 179/ 95 180/ 95 125/ 66 151/ 80 126/ 67 178/ 94 184/ 97 178/ 94 101/ 53 178/ 94	
PROBLEM SOLVING/APPLICATIONS 13. IDENTIFY OBJECTS/NUMBERS IN ARRAYS 14. READ/INTERPRET GRAPHS 15. READ/INTERPRET TABLES 16. IDENTIFY NUMBER SENTENCES FROM PICTURES 17. IDENTIFY NUMBER SENTENCES FROM PROBLEMS 18. SOLVE STORY PROBLEMS WITH +/- 19. SOLVE STORY PROBLEMS WITH EXTRA INFO 20. IDENTIFY NEEDED INFO IN PROBLEMS MEASUREMENT/GEOMETRY 21. MEASURE LENGTH/AREA 22. ESTIMATE LENGTH/AREA 23. TELL TIME 24. DETERMINE VALUE OF A SET OF COINS 25. IDENTIFY SHAPES/ANGLES/SIDES	3 OF 4 3 OF 4	41/ 93 40/ 91 39/ 89 33/ 75 42/ 95 38/ 86 40/ 91 36/ 82 38/ 86 33/ 75 49/ 91 41/ 93 43/ 98	33/ 92 35/ 97 33/ 92 27/ 75 36/100 32/ 89 28/ 78 32/ 89 26/ 72 33/ 92 34/ 94 36/100	29/ 97 25/100 28/ 97 23/ 79 29/100 25/ 86 27/ 93 28/ 97 28/ 97 28/ 93 27/ 90 29/100 27/ 93 27/ 93	40/ 95 41/ 98 41/ 98 32/ 76 42/100 38/ 90 37/ 68 39/ 93 34/ 81 40/ 95 39/ 93 41/ 98	33/_89 37/100 32/_86 33/_89 36/_97 34/_92 37/100				178/ 94 181/ 96 176/ 94 143/ 76 184/ 98 169/ 90 165/ 88 172/ 91 164/ 87 153/ 81 178/ 95 175/ 93 184/ 98	
AVERAGE NUMBER OF OBJECTIVES MASTERED	1 1 1 S 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	21.3	21.7	22.8			Love 2" x 1988	in whomat	Variation services in	contribute one to	
NUMBER/PERCENT OF STUDENTS BELOW REMEDIAL STANDARD		₹#+3- -		77 10 1	22.5	22.2		I		22,0	- 1

*REMEDIAL STANDARD IS 88 OF 100 ITEMS CORRECT.

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ALL RIGHTS RESERVED. PRINTED IN U.S.A. ERIC 79 pyright () 1984 by Harcourr Brace Jovanovich, Inc. 1

AVERAGE HOLISTIC WRITING SCORE

CONNECTICUT STATE BOARD OF EDUCATION

AVERAGE DRP UNIT SCORE

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*REMEDIAL STANDARD IS 4 FOR WRITING.

5.1

45

6.3

55

5.8

50

6.3

50

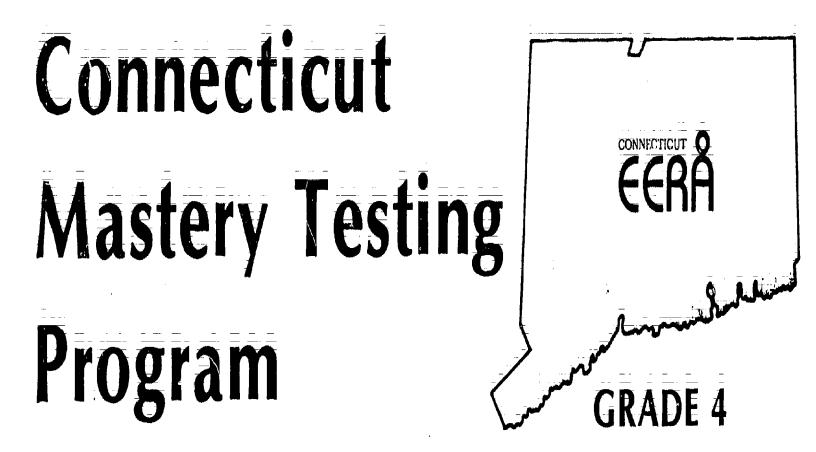
4.8

45

7.5

5.6

YCHOLCGICAL CORPORATION



PARENT/STUDENT DIAGNOSTIC REPORT

For specific information about your child's scores inside, see the back cover of this folder.

For general information about your !ncal district's testing program; please contact your superintendent of schools.

For further information on the statewide mastery testing program, contact: Connecticut State Department of Education, Office of Research and Evaluation, Box 2219, Hartford, Connecticut 06145, (203) 566-4001 or 4008.



WATHEMATICS

STUDENT OBJECTIVES ANALYSIS FOR

GRADE:

SCHOOL:

FORM.

DISTRICT

TI ĀCHĒR ----

TESTING DATE:

CONNECTICUT

MASTERY TESTING

PROGRAM



THE PSYCHOLOGICAL CORPI RATION HARCOURT BRACE IOVANOVICH, P. ILISHERS



TRACHER	GRADE 4 REI	PORT PAR	RT 1 .
OBJECTIVES TESTED		TERY CRITERIA OF ITEMS CORR CT	SCOR:
CONCEPTUAL UNDERSTANDINGS			
1. Identify the number one more, one less, ten more or ten less than a given number		3014	
 Extend patterns involving numbers and attributes Order whole numbers 		Fol 4	
4 Rewrite numbers using expanded notation		3 of 4	
5. Rewrite numbers by regrouping tens and ones defentify fractional parts of regions and sets from pictures for halves, thirds, fourths and sixths		3 of 4	
7. Relate multiplication and division facts to rectangular arrays		3 of 4 3 of 4	
COMPUTATIONAL SKILLS			
8. Know addition and subtraction facts to 18		3 of 4	
 Add and subtract one and two digit numbers without regrouping Add one and two digit numbers with regrouping 		3 öf 4	
13 Estimate sums and differences to 100		3 of 4 3 of 4	
12 Multiply and divide by 2, 5, and 10		3 of 4	
PROBLEM SOLVING APPLICATIONS			
13. Identify objects or numbers that do or do not belong in a collection, matrix or array		3014	
 Read and interpret bar graphs and pictographs Read and interpret data from tables and charts 		3 of 4	
6 Identify or write number sentences from pictures		3 of 4 3 of 4	
 7. Identify number sentences from addition or subtraction story problems 8. Solve simple story problems involving addition or subtraction 		3 öf 4	
 Solve and identify number sentences in simple story problems, involving addition and subtraction, with s 	extraneous information	3 of 4 3 of 4	
O Identify needed information in problem situations		3014	
MEASUREMENT/GEOMETRY			
1. Measure length and identify appropriate units for measuring length and distance		3 of 4	
 Estimate lengths and areas Tell time to the nearest hour, half hour and quarter hour using analog and digital clocks 		3 of 4	
4. Determine the value of a set of coins		3 of 4 3 of 4	
5. Identify shapes, angles and sides		3 of 4	
OTAL NUMBER OF OBJECTIVES MASTERED			
UMBER OF ITEMS CORRECT	(Remedial Standard is 69 of 100 item	s correct)	
	(memodiai staliuai u 15 07 Oi 100 ((CII	3 COHECT	

84

LANGUAGE ARTS CONNECTICUT THE PSYCHOLOGICAL CORPORATION HARCOURT BRACE JOVANOVICH, PUBLISHERS STUDENT OBJECTIVES ANALYSIS FOR MASTERY TESTING EERÅ **CRADE:** SCHOOL: **PROGRAM** FORM: DISTRICT: **GRADE 4 REPORT** PART 2 TEACHER: TESTING DATE: MASTERY CRITERIA **OBJECTIVES TESTED** SCORE NUMBER OF ITEMS CORRECT WRITING MECHANICS 9 of 12 Capitalization and Punctuation -7 of 9-Spelling Word Choice, Homonyms, and Abbreviations Agreement (verb tense, subject-verb, and pronoun referent) 11 of 15 LOCATING INFORMATION 8 of 11 Schedules, Maps, Table of Contents and Title Page, Dictionary LISTENING COMPREHENSION Literal (understands the meaning of ideas clearly stated by a speaker) 5 of 7 Inferential and Evaluative (understands the meaning of ideas not clearly stated, but implied; by a specific 9 of 13 and is able to make critical judgments about them) READING COMPREHENSION 9 of 12 Literal (understands the meaning of ideas clearly stated within a passage) Inferential (understands the meaning of ideas not stated, but implied, within a passage) 10 cl 14 Evaluative (able to make critical judgments about statements and inferences within a passage) 7 of 10 TOTAL NUMBER OF OBJECTIVES MASTERED DEGREES OF READING POWER (DRP) WRITING SAMPLE Score Score DRP Unit: **Holistic Writing Score** Remediai Standard is 41 DRP Units medial Standard is 4 of 8



PARENTISTUDENT DIAGNOSTIC REPORT

Dear Parent:

Inside you will find the results of the Connecticut Mastery Test administered to your child earlier this fall. The test results help to show you and the school district's professional staff how well your child is performing on those skills identified by the State of Connecticut as important for students entering fourth grade to have mastered.

These tests are designed to determine the specific skill levels of students. The test result will be used to

- provide your school with information for use in assessing the progress of individual students over time;
- provide your school with information based on which improvements in the general instructional program can be made; and
- provide information on appropriate basic skills remedial assistance for students so identified

Mastery testing will occur each fall. All fourth graders starting in 1985 and all sixth and eighth graders starting in 1986 will be tested.

If you have any questions about these test results, please ask your child's teacher. The teacher will share with you other observations and recommendations based on their experience in working with your son or daughter during the last several months.

Description of the Test

Mathematics. The mathematics test assesses specific skills in the general areas of conceptual understandings, computational skills, problem solving/applications, and measurement/geometry. Test items evaluate a student's ability to order and rename numbers, compute and estimate sums and differences; read and interpret tables, graphs, and charts; solve a broad range of problems, measure and estimate length and width; identify shapes, and tell time.

Language Arts. The "Degrees of Reading Power" test is designed to measure a student's ability to understand nonfiction English prose at different levels of reading ability. The test measures reading ability on a scale of reading difficulty. This test is keyed to many available reading materials so teachers can use the scores to select reading material on an appropriate level of difficulty for each student.

In addition to the "Degrees of Reading Power" section, the reading technical includes narrative, expository, and persuasive passages on a variety of topics. These test home measure a student's ability in literal comprehension, inferential or interpretive comprehension, and evaluative comprehension or critical reading. The test also assesses listening comprehension by using audic tapes.

Students will also be asked to write a composition on a designated topic. The writing will be judged on a student's demonstrated ability is convey information in a coherent and organized fashion.

Writing skills are also assessed through a multiple-choice test in the areas of usage; mechanics; locating information; and notetaking.



APPENDIX G

l'umber of Objectives Mastered

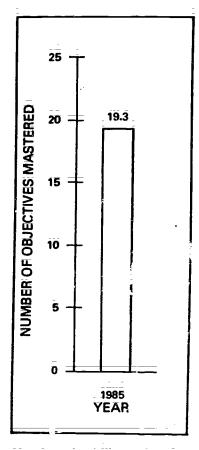
- o Mathematics
- o Language Arris

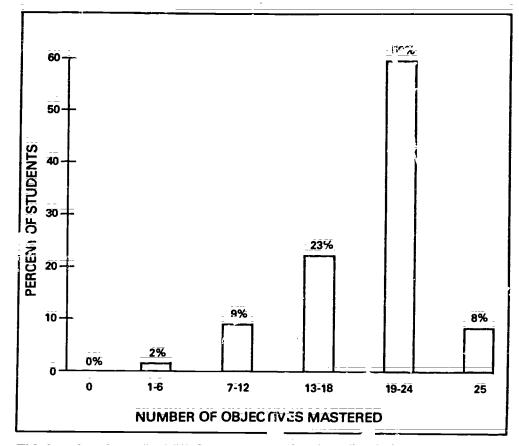




MATHEMATICS: AVERAGE NUMBER OF OBJECTIVES MASTERED

MATHEMATICS: PERCENT OF STUDENTS ACHIEVING MASTERY BY NUMBER OF OBJECTIVES MASTERED





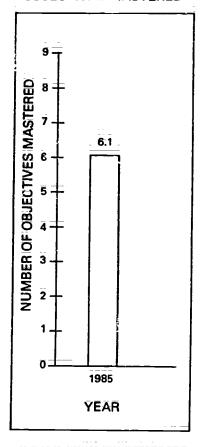
This bar chart illustrates the average number of mathematics objectives mastered, statewide.

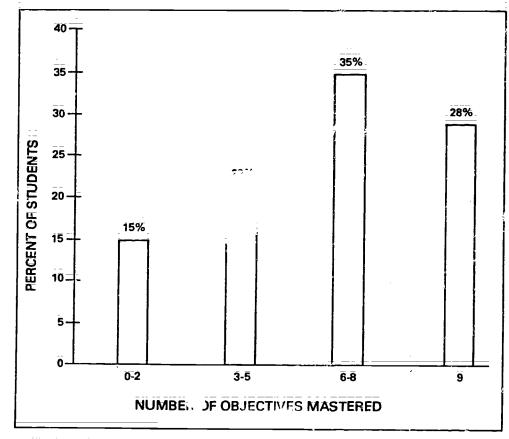
This bar chart illustrates the distribution of students, statewide, who mastered mathematics objectives within each of the six score categories.



LANGUAGE ARTS: AVERAGE NUMBER OF OBJECTIVES MASTERED

LANGUAGE ARTS: PERCENT OF STUDENTS ACHIEVING MASTERY BY NUMBER OF OBJECTIVES MASTERED





This bar chart illustrates the average number of language arts objectives mastered, statewide.

This bar chart illustrates the distribution of students, statewide, who mastered objectives within each of the four score groupings.



Appendix H

State by District Report - October 1985 Grade Four Mathematics Test Results



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			OBJE	CTIVES TESTED	-	-			
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APPENDIX I

State by District Report - October 1985 Grade Four Language Arts Test Results

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STATE BY DISTRICT REPORT

CONNECTICUT	MASTERY TESTI	NG P	ROGR	AM				GRADE	4										-		-Î A Î	NGUA(ĜĒ Ā	RTS
		-	0	JECTIV	ES TES	TED			TOTAL	. 0	EGREES	OF									-		76 /	-
	WPLTING MECHANICS		LOCA INFORM	ATION	COMPRE	ENING HENSION C	READIN OMPREHE	G	LANGUAC ARTS	E P	READING OWER (DI	; [WRI1	TING S	SAMP	Œ					PAG	Ē	ï
DATE TESTED:	Constitution of the state of th	adjean water	Tank and allows	CONTRACTOR OF CO		, , , , , , , , , , , , , , , , , , , 			Contraction	Se Marine Marine		1 2 3 S S S S S S S S S S S S S S S S S S							1	A STUDENT SOOT	13.00	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20011	<u></u>
	CRITERIA (# POSSIBLE)	-	W12	7/0	11713	₩i	5/7	0/13	ī/i2	10/14	7/10													
DISTRICT	# OF STUDENTS TESTED	TOC	SC	ORES RE	PRESENT	THE PERCENT O	FSTUDEN	TS MASTER	RING EAC	H OBJEC	TIVE													
ANDOVER ANSONIA	29	4	66	39	90	83	83	66	72	52	45	6.1		25	50	4 2	5 (8	31	19	5	4 0	5.0	4
ASHFORD	144 43	2	78 65	68	85	8 <u>0</u>	70	54	73	45	47	6.0	28		- 1	14 2		13	1 - 1	24	25	9 7	5.Q	17
AVON	147	-	88	80	81 95	74 95	84	63	65	47	53	5.8	37	28	35	12 3	7 5	21	26	21 1	12	1 1	1.6	24
BARKHAMSTED	30	7	90	77	90	70 90	92	87 90	90	80	81	7.9	1,3	24	67 !	3	9 3	3	22	33]	2	1 1	5.3	4
BERLIN	137	4	92	76	94	95	88	82	80	73 72	80 78	7.7	20	50	49 4	8 2	9 /	1		7	0 2] 23 (.4]
BETHANY	55		84	85	91	95	83	72	74	IG Es	66	7.6 7.0	14	20	24 2		1 :	,	25	24 2	3 1	3 9:	3.3	3
BETHEL	216	4	80	71	89	82	84	1 11	A1	58 63	61	1.0	12		5) 4	ja ç	9 4		25	50 1		7 49	. 0	1
BLOOMFIELD	180	Z	68	65	77	76	69	56	64	50	53	5.8	10	1	54 <u>(</u> 31 (3 F	9 1	1,		20 2 18 1	1	4 4		
BOLTON	45	4	80	73	89	93	91	75	81 64 78	50 69	69	7.3	29			4 2	d 4	11			1	1 77	4	
BOZRAH	21	5	95	67	ÖÌ	81	90	76	62	33	57	6.4	29		- 1	3 2		20	50		ď		3.0	d
BRANFORD	196	4	80	64	90	90	82	75	71	60	61	6.8	1 44	7-1	49 4	1	4 +		26	3d 1	9 1	_	5.0	
BRIDGEPORT	1,278	1	56	54	54	59	41	32	39	21	23	3.8	61	24	19 3	7 6	1 15	16	34	30 1 19 1	19 1) 11 (4	N 114	.11	511
BRISTOL Brookfield	524	3	85	68 73 59	82	82	<u>74</u>	61	<u>75</u>	56	61	6.4		25	51 4	7 2	4 6	11	28	24 1	9	\$ 70	5.9 1	ir)
BROOKLYN	156 82	-	88	73	95	92	90	74	82	69	71	7.4	20	20	61 4	7 2	q 3	1 7	15	24 >	1 20			4
CANAAN	04	-	73 89		8 <u>0</u>	79	72	57	63	48	49	5.8	29	28	43 4	4 2	9 7	16	26 0 35 27	22 1 30 1				
CANTERBURY	[7	-	9.7 84	7 <u>8</u> 78	78 85	<u>67</u> 91	78 87	56 61	67	44	56	6.1	33	33	33 4	3 3	y 13	13	g	39 1	3 2 <u>2</u>	9 0 5	i. q 7	25
CANTON	81	4	85	70	94	24 94	96	86	73 78	54 74	49	7.6	17/	25	90 9	4 2	1 1	3	35	32 1 26 1	9 (1 9 1	.9	9
CHAPLIN	27	6	59	64	70	67	88	52	62	31	70 54	7.5 5.5	12	27 17	29 ? 20 &	7 I. 2 Z	3 4	1 7	27 29	26 1	7 1! 8 (1.3	• 4	4
CHESHIRE	310	2	87	73	89	_99	91	84	80	74	80	7.5		27	24 Z	9 22 9 16		N M M S M			9 .:	12 4 16 5 19 5		2
CHESTER	36	6	78	69	97	100	86	86	83	58	72	7.3	114	25	61 S	d i]]	ii	22	idi	9 15 9 16	1 10 7	·9 ;	
CLINTON	161	5	79	71	84	86	80	63	81	61	61	6.7	29 33 27 15 33 14 14 23 22 0	29	49 4	2	11526165	11 18	23	29 1 19 2 19 1 26 1 26 1	8 15 9 14 1 12 7 16 9 - 9]],	٦,	9
COLCHESTER	117	5	83	-68	89	. 91	86	77	73	56	70	6.9	22	29	49 4	1 2		9	23	sel 1	16	34	, <u>,</u> ,	
COLUMBIA	n n	6	91	100	82	100	64	91	91	64	82	7.6	q	36	64 5	1 0	d d	10	27	36	9 -9	da	1	8
CORNWALL	45	5	70	57	91	77	78	62	69	62	49	6.1	36	žq i	43 4	3 30	4	_ 4	Щ	ZQ 3	Q 23	11 5		9
COVENTRY	- 13 112	1	92 86	69 64	92 91	100	92	54	92	92	92	7.8	. ~				g	31	_8	15 1	5 31	11 5 0 5 10 5	. 1 3	14
	116		00	97	71	90	 	73	77	57	61	6.8	27	31 (42 4	4 27	11	10	27	19 1	7 13	10 5	-2 1	1
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-CONNECTICUT	MASTERY TESTING	PROGRAM		GRAD			•					-	LANGU	AGE /	ARTS
	WRITING	OBJECTIVE LOCATING	/ES TESTED	READING	TOTAL LANGUAGE	DEGREES (READING		WR	TING SA	MPLE		_		AGE	
	MECHANICS	INFORMATION	COMPREHENSION	COMPREHENSION	ARTS	POWER (DR	(P)-							AUE	
DATE TESTED:	Seal of Seal o	Secretary of Source			O Starting The Starting Starti	August of the state of the stat						a swaming score	The second of th	23 0 23 0 23 0 23 0 23 0 23 0 23 0 23 0	
	CRITERIA I/# POSSIBLE)	0/12 7/0	11/15 8/11	5/7 8/13	9/12	0/14 7/10									
DISTRICT	# OF STUDENTS TO TESTED	C SCORES RE	PRESENT THE PERCENT	OF STUDENTS MAST	ERING EACH C	BJECTIVE									
CROHNELL DANBURY	84 4 570 3	80 75 67 63	94 92 77 80	77 64 70 58	7 <u>9</u> 62	57 63 45 53	6. <u>8</u> 5.8	18 32 34 25	50 48 61 43	18 2 34 5	5 I 10 3	25 2 18 1		5.6 5.0	7 15
DARIEN	189 2	90 81	92 91	86 78	84	<u>73 70 </u>	7.5	16 25			5 1			5.6	8
DEEP RIVER DERBY	42 6	88 <u>76</u> 69 48	100 90	86 79		76 62	7.4	12 29	} I 1		-2 2	1	9 17 18	5.7	_ Z
EASTFORD	15 6	87 67	78 71 87 93	68 41		36 39 73 67	5.1 7.1	37 36 27 60		l _[.:	11 3	17 1	11 17 - 9 7 20 27	4,8	4
EAST GRANBY	37 4	92 89	92 86	89 84		76 73	7.6	11 32	1 1	1 - 11 - 1	B 2	22 2		5.1	14
EAST HADDAM EAST HAMPTON	64 5	90 75	84 90	83 69	, ,	59 70	6,9		41 45		6 20	33	6 14 9	5.1	9
EAST HARTFORD	108 S	68 73 75 59	83 91 81	87 70 71 55		62 60 48 53	6,9	23 21			12 3 15 2 13 2	21 1		4.9	15
EAST HAVEN	172 2	76 69	81 85	77 66		51 50 B	5,9 6,2	32 27	41 43	32 7 31 9	15 29 13 29	21 1 26 1		12:4	21 22
EAST_LYME	165 4	85 66	92 94	83 77	1I .	68 69	7.2	15 32	53 49	15 4	7 19			5.3	
EASTON	62 4	84 77	92 95	94 64		71 76	7.6	15 19	66 49	15 0	7 19 3 29	25 2 34 1	9 15 7 9 8 11	5.3 5.4	3
EAST MINDSOR ELLINGTON	-66 4 109 4	77 74 85 73	56 68 91	71 58 83 59		64 59	6.4	24 38	53 49 66 49 38 44 55 47 45 45	15 0 24 8 22 3	9 29	17 2	15 6 16 19	5.1	17
ENFIELD	372 3	75 66		83 59	77 73	59 59 55 56	6. <u>7</u> 6. <u>4</u>	22 23	25 47	22 3		15 2	16/19	5.7	12
ESSEX	45 6	84 67	80 82 93 94 94 98 89 89	80 65 93 96	84	55 56 60 78	9. <u>∓</u> 7.∳	13 27	50 49	13 0	5 25 7 22	22 1 18 2	9 49 _0 12 14	5.2	19
FAIRFIELD	377 2	89 76	93 94	87 80	80	70 74	7.4	16 29	55 48	16 3		22 1	13 16 9 12 8	5.1	10
FARHINGTON Franklin	137 4	89 76 88 77 79 64	94 98 89 89	90 80	88	72 75	7.6	15 21	66 49	15 5	9 25	20 1	22 7	5.3	14
GLASTONBURY	28 <u>5</u> 288 4	79 64 85 77		86 64		4 4	6.8				1	50 1	7 -0		11
GRANBY	200 T	87 77	91 90 89 90	89 83 86 68		72 78 70 71	7.5 7.3	14 19 23 20					बंदली उ	5.8 5.0	11
GREENMICH	394 2	81 70	90 89	82 75		55 71	7.0	1 251 26	56 47 53 47	क्र प्रद	d 16	39 37		D. 9	11 18
GRISHOLD	127 4	76 62	67 87	86 60		55 53	6.4	33 31	36 43	33 9	13 24	id i	idi	5.1	22
GROTON	417 3	73 61	79 80	76 54	62 4	ið 45	5.8	35 28	37 42	35 14	16 25	18 10	4 5	4.5	30
GUILFORD HAMDEN	249 4	86 83	90 93	89 81		73	7.5	13 26	61 49	13 4	5 22	24 1	21 7	5.4	4
HAMPTON	353 2 22 5	77 68	85 86 77 68	76 68 100 55		0 61 1 45	6.6 E a	33 31 35 28 13 26 26 30 45 23	꿝뙲	29.7	19 21	311	13 4 14 7 13 13 13 13 21 7 12 6	5.0 5.1 5.1 5.4 5.4 5.4 5.4 5.4 5.4 5.4 5.4 5.4 5.4	17
	" "	'' "] '' ••	700 25	57 '	" 43	5.8	*7 4	39 39	72 19	(7) 19	29 1	1 5 5	••	45
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STATE BY DISTRICT REPORT

CONNECTICUT	MASTERY TESTI	NG P	ROGR	AM				GRADE	4 .			-							-			NGU	∆ CE	APT	'C
	-	-	-08	JECTIV	ES TES	TED			TOTAL		EGREES (_					Ī			1100/	10E	<u> </u>	<u> </u>
	- Writing - Mechanics		LOCAT Inform	ATION	LIST!	ENING C	READIN OMPREHE	G	LANGUAG ARTS		READING OWER (DE			WRI	TING :	SAMF	LE					P	JÇE	3	; !
DATE TESTED:	10-85	Street The Street Stree	The state of the s	C. C. CONTROL OF CONTROL				S. S. S. S. S. S. S. S. S. S. S. S. S. S	O TO STATE OF THE PARTY OF THE	To a service of the s		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			The Charles					S. S. Indiana			23 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
MASTERY (# Correct	CRITERIA // Possible)	-	9/12	7/0	11/15	N/II	5/7	8/13	B/12	10/14	- 7/10				Ì	Ì				\bigcap	1				
DISTRICT	# OF STUDENTS TESTED	TOC	SCC	XES RE	PRESENT	THE PERCENT O	f studen	IS MASTER	RING EAC	H OBJEC	TIVE														
HARTFORD HARTLAND HEBRON	1,581 -14	1	39 86	64	48 93	52 86	37 86	23 79	32 64	17 50	18 50	3.2 6.6	68 36	21	93	14 3	6 28 6 0	19			7	7 14	3.7 5.6	47	
KENT	102 32	6	86 91	72	93 94	86 94 88	8 <u>1</u> 94	66 84	81 81	73 66	71 63	7.2	10	25		50 1		5			- 1 .	0 2	1	17	
KILLINGLY	179	6	72	71	75	77	76	58 58	64	43	49	7.3 5.8	90	25 32		7 2 11 4		13 14	16 31	25 22	16 1 13	19 13	5.5	13 25	
LEBANON LEDYARD	54		80	48	81	80	85	<u>70</u>	56	33	46	5.8	39	33	28 4	2 3	J "	15	24	- 1	ig 1	111	5.2		
LISBON	202 42	1	86	73 71	92 79	<u>87</u> 86	<u>89</u> 81	82 67	78	<u> </u>	70	7.2	16	23		91		7			21 1	7 8	5.2	12	
LITCHFIELD	74	6	80	50	82	<u>81</u>	85	22 73	69 76	55 55	62 49	6.5 6.3	24	29 27		4 2		10		43		0 2	4.9	14	
MADISON	171	5	84	73	87	67	96	81	81	69	72	7.3	21			13 C 15 2	1 10	9	22	16	25 1 20 1	1 11 6 2	5.2 5.1	15	
MANCHESTER	430	3	80	67	85	85	81	66	71	57	73	6.6	27	27	46	4 2	7 ,	11	23	24 23	i i	1		20	
MANSFIELD Marlborough	86	6	70	67	85	83	87	72	71	64	59	6.6	29	23	48 4 57 4 36 4 42 4	4 2	9 11	15	30	21	8 1				
MERIDEN	77 508	3	8 <u>4</u> 69	67 62	91	90	87	82	81	64	73	7.2	17	26	48 4 57 4	8 1	1	5	30 22 32	20	28 1 13	3 17	5.5	7	
HIDDLETONN	302	3	74	63	77 78	75 75	63 77	47 54	60	44	48	5,4	37	27	36 4	43	1 9	15	32	20	13	9 4	4.5	23	
HILFORD	431	3	77	64	86	85	81	63	60 71 77 60	43	50 56	5.6	44	24 29	32 9	1 9	7	13	29	22 1	9 =	9 9	4,9	18	
HONROE	204	4	88	75	91	92	87	77	77	54 66	20 77	6. <u>4</u> 7.3	29 13	29	74 9 58 4	9 1	1 4	14	33	24 24		2 4	4.6		
HONTVILLE	175	4	80	67	86	83	80	62	60	47	49	6.1	32	28	58 4 40 4	2 1 2 2	3	- 1	17	20			5.7 5.2		
NAUGATUCK -	288	2	67	54	82	80	73	55	66	44	44	5.7	35		33 4	3 3 2 3]]			22]]	1,7		
NEM BRITAIN NEH CANAAN	464	3	61	60	70	71	53	35	49	34	36	4:7			25 4	0 4	15	15		id i	1	4 2		25	ŀ
MEH FAIRFIELD	183 184	Z	91 84	81	93	95	88	85	84	77	84	7.8	111	24	65 5	d 13	1 1	4	19				5.6	7	
NEM HARTFORD	65		83	74 45	87 88	87 88	89	70	71	60	64	6.9		24	53 4 43 4	5 22	4	9	2.7	28 2	9	44	4.9	14	-
NEH_HAYEN	1,083	il	47	65 47	60	<u>88</u> <u>5</u> 8	88 45	66 27	77 41	63 22	60 26	6.8		28	13 4	4 2°	25 25	14	18	17 2	3 1 0 1 6	9 9	5.1	20	
NEMINGTON.	245	Ž	87	68	89	65	64	73	73	63	54	318 618			18 5 59 4		129	74	54 17	15 4 15	9	9.4	3.6	47 10	l
NEN CONDON	211	3	40	47	67	67	57	41	45	31	38	4.5		26	52 4 18 3	5 50		21	34	19 '	# 1	14	2.3	39	1
HEH HILFORD HEHTOWN	289 249	5	85 85	7 <u>9</u> 73	89 93	93 93	86 90	79 64	79 81	62 72	68 73	7.2 7.4	18	31	51 4 62 4	8 18	1 2	14	28 14	26 1 27 1	3 1 1		4.9	17	
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STATE BY DISTRICT REPORT GRADE 4

CONNECTICUTIV									GRADE 4								LANGUAGE ARTS						j -		
¦ -	1470(71)(0				/ES TES			-	TOTAL.		EGREES (READING			OM 19	MA A	Attini	,		Ţ					_	
	WRITINGMECHANICS		LOCA1		LIST	ENING HENSION C	READIN OMPREHE		ARTS	PC	WER (DR	P)	1	WKII	ING \$	AMPL	£					PA	AGE	4	
DATE TESTED: 1	0-85 Carrent State of the state	Set Set I	and when all on the			1			O STATE OF THE PROPERTY OF THE	To be the state of		Reserved Co.								The street of th	The same	The state of the s	13.00		
MASTERY (# CORRECT)			W12	7/0	11/15	VII	\$17	9/13	W12	10/14	7/10		ÌÌ	Ì	Ť	Ť		n	Ì	Ť	Ť	ÌÌ	۲,		ᅱ
(B connect)		- T				<u> </u>														İ					ļ
DISTRICT	# OF STUDENTS TESTED	10C	SC(ORES RE	PRESENT	THE PERCENT O	F STUDEN	IS MASTER	RING EAC	H OBJEC	TIVE														
NORFOLK NORTH BRANFORD	15 149	1	95 29	73 72	100	87	80 80	53 60	80 66	67	60	6.9		40	53 4		G	q	27	3 3 I	3 2	d d	5.5	g	┫
NORTH CANAAN	_35	6	86	60	86	89	86	49	77	54 57	52 49	6.3 6.4	30 29 27		39 4 40 4	3 30 3 29		9	30 31	17 I 20 1	5 1 4 1	9 7	5.1	14	
NORTH HAVEN	214	2	78	65	89	85	81	68	74	60		6.6	27	7.7	46 4	4 27			23	žď i	1	3 7	5.0	17	-
NORTH STONINGTON NORMALK	57	5	88	84	89	95	89	77	82	65	60 68	7.4	11 47	25	65 4	9 11	2	7	22	20 Z	2 1	3 15	5.5	- 9	-
NORMICH	645 356	3	61 74	62	71	69	65	52	59	38 50	46	5.2		27	26 4	d 47		16	27	18 1	3	희회	9.3	31	-
OLD SAYBROOK	_ 90	;	76	62 72	80	84	78	60	65		51	6.1	31		42 4	3 31		15	30	25 1	4 3	비되	4.4	26	ł
ORANGE	152	2	91	87	90	88 93	72	73 70	74 88	61 72	7 <u>0</u>	6.7		22	<u>51</u>] 4	9 27		14	36	14 1	J	4-4	4.9	14	- 1
OXFORD	100	5	24	75	85	84	81	69	79	58	61	7.5 6.7	14	29	04 5 40 4	9 14 5 22	1 7	.7	26	23 1	91	9 1 <u>4</u>	5.3	- 1	
PLAINFIELD	176	5	77	62	79	75	67	50	72	44	49	5.7			49 4 30 4			11	2	17 1 23 1		9 7	1.7	22	Ì
PLAINVILLE	141	4	78	72	88	82	81	64	72	61	60	6.6	1 1	28		35				24 1		1 1	6.9	15	
PLYHOUTH	125	Ž	73	64	83	81	77	50	68	57	46	5.9	43	27	3d 6	1 63	1 1	12	10	9 d 11	ਰ :	3 4	4.5	20	ı
POMFRET Portland	97	•	80	52	80	82	84	55	66	41	39	5.8	27	27	4 <u>4</u>	27	19	꼉	16	Ø	1 !				ı
PRESTON	72	5	8 <u>3</u> 76	78	92	100	82	82	88	63	65	7.4	13	32	50 4	9 13	6	ą	29 8	26 1	1	44	4.1	14	١
PUTNAH	1 <u>02</u>		61	65	93	91	72	61	74	63	57	6.5	17	30	52 4	17	g	14	24	5d 5	2 80	44	5.3	11	ı
REDDING	-89		92	46 75	66 96	66 96	69 89	43	56	38	40	4,9	199	26	45 4 50 4 52 4 66 5 63 4	9 45	19	년	24)	34 26 1 20 2 17 1 20 1 24 2 21 2	4 1!	9 4	5.4.5.	34	- 1
RIDGEFIELD	240	Ē	85	78	92	95	87	83 77	85 85	77 76	80 81	7.7 7.6	냂	3	66 56 63 4	1 !!	3	4	34 1	91	1	1.3	5.3	9	
ROCKY HILL	123	4	88	84	93	93	86	76	86	67	79	7.5	10	21		11	4	ļ	14 3	<u> </u>	1	417	2.9	2	1
SALEM	43	5	_91	65	93	91	81	74	61	63	81	7.2	•#	30	sol s	1"	4	4	23	,	ת בנ 1	1:1	5.4	4	
SALISBURY	26	5	100	ðl	96	100	96	85	85	73	81	8.0	4	27	9 5	-	12	13	19	ı l	1	0		27	1
SCOTLAND Seynour	-15	6	73	67	93	67 88	47	60	60	47	40	5.5	33	33	50 50 59 59 53 44 50 49	33	2200	0	25 3 15 2 27 2	30 21 23 19 27 21	9 19 7 _ 7 0 17	13	g-6	· A .	ļ
SHARON:	149	5 Z	87	72	89		74	63	78	49	56	6.6	24	26 !	5 0 4 !	33 24	q	11	20 2	21	q 17	4 1	5.3	11	ł
SHELTON	13 298	ž	85 81	77 80	92 87	92 87	69	31	85	38	56	6.2	23	Z3 :	74) 4 4	23	q	23	3 0 3	11	1	4 9	4.3	23	-
SHERMAN .	19	-	89	68 68	100	1 <u>07</u>	81	6 <u>3</u>	78	62	62	6.8	13	Z a !	4	23 18	3	14	23 ?	.1 2 <i>1</i>	14	2 14 12	5.1	Ц	
SIMSBURY	262	4	88	88	97	95	87 91	<u>79</u> 89	95 88	68	68 89	7,6 8.0	77	24 7	74 59 55 50	1.3	9	9	5 <u>7</u> ?	33	ַ נ	1	5.1	9	
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STATE BY DISTRICT REPORT GRADE 4

CONNECTICUT	CONNECTICUT MASTERY TESTING PROGRAM											-									LAN	IGUA	GE	ART	S
		-	OB	JECTIV	es tes	TED			TOTAL		EGREES						-		\Box				ليحمر		
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MEST HAVEN MESTON MESTPORT METHERSFIELD	417 -90 224 169	2 5 3 2	66 89 89 83	66 87 75 80	81 94 93 89	80 98 95 90	68 96 94 89	72 51 58 68 74	69 63 90 87 73	62 45 74 78 67	66 46 82 80 73	6.7 5.7 6.0 7.7 7.2	25 38 14 14 16	2 9 3	49 4 53 4 68 5 64 5 54 4	5 25 2 38 3 14 0 14 6 16	1	12	32 14 17 32	10 C 22 1 24 2 22 2 16 8	9 20 9 20 9 20 9 20 9 20	12 12 9 14 10	5.5 4.6 5.7 5.6 5.1	17 7 11	
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STATE BY DISTRICT REPORT

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			VES TESTED		TOTAL	DEGREES O	;		LANGUAGE A	IKIS
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MASTERY	CRITERIA								1111	7
(# CORRECT/	# POSSIBLE)	9/12 7/19	11/15 B/11	5/7 9/13	0 /12	10/14 7/10				
DISTRICT	# OF		Assessed and a second							
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HILLINGTON HILTON	54 5	64 51	61 77	92 81		48 63	6.4 40 26	34 43 40 9 9 20	31 11 11 7 4.9	74
HINCHESTER	172 4 90 6	92 76 72 60	96 93 78 80	92 92 81 70		78 80 40 58	7.9 12 22	66 50 12 3 3 16	26 20 10 13 5.6	_6
HINDHAN	217 6	53 45	67 70	74 49		40 58 39 47	5.9 37 26 5.0 53 25		t	37 42
HINDSOR LOCKS	262 <u>2</u> 92 4	79 77 88 80	91 87 89 88	81 68	1 1	65 61	6.8 20 27	53 47 20 4 7 21	21 20 14 13 5.4	11
HOLCOTT	147 2	77 64	90 89	81 57		65 63 54 54	7.0 1.8 25 6.3 28 33	57 48 18 0 8 26 39 43 23 5 10 25		. 8
HOODSTOCK	92 4 57 6	85 76 72 64	86 87	82 71	79	67 70	7.0 15 30	59 48 15 2 2 11	29 14 12 3 4.9 32 22 22 9 5.7	_9
REG SCHOOL DIST OF	50 6	72 64 86 82	87 _ 79 94 100	93 80 86 84	77 90	62 68 70 84	6.8 36 23 7.8 14 24	49 43 34 2 4 35	33 13 4 24.6	13
REG SCHOOL DIST 10 REG SCHOOL DIST 12		83 64	86 88	85 64	79	68 69		55 6 20 2 7 27	34 24 10 6 5.3 26 23 7 7 5.1	
REG SCHOOL DIST 13		85 65 79 72	92 96 54 88	86 85	86 76	71 85 60 56		67 53 a 3 7 10	27 28 18 7 5.5	10
REG SCHOOL DIST 14	110 4	83 71	92 92	89 77	89	68 81	6.7 20 36 7.4 15 24	61 69 15 1 7 30	20 16 16 6 5.0 20 20 14 8 5.2	14
REG SCHOOL DIST 15 REG SCHOOL DIST 16		85 73 74 68	91 91 88 85	87 79	86	65 75	7.3 16 28	56 47 16 1 4 14	26 25 19 12 5.7 26 14 17 11 5.3	5
REG SCHOOL DIST 17	124 6	81 83	91 93	68 57 92 67	<u>77</u> 81	69 59 68 69	6.3 35 23 7.3 21 31 7.1 16 22	43 43 55 & 5 26 48 45 21 0 2 24	26 14 17 11 5.3	
REG SCHOOL DIST 18	85 6	81 76	92 82	84 78	82	67 71	7.1 18 22	56 47 16 1 4 14 43 43 35 & 5 26 48 45 21 0 2 24 60 48 18 9 4 25	26 25 19 12 5.7 26 14 17 11 5.3 23 24 17 10 5.6 40 13 5 5 4.6	15
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STATE BY DISTRICT REPORT

GRADE 4 CONNECTICUT MASTERY TESTING PROGRAM LANGUAGE ARTS OBJECTIVES TESTED DEGREES OF TOTAL-LANGUAGE READING WRITING SAMPLE 7 WRITING LOCATING PAGE LISTENING READING ARTS POWER (DRP) MECHANICS INFORMATION COMPREHENSION COMPREHENSION DATE TESTED: 10-05 MASTERY CRITERIA B/12 7/0 11/15 **e/11** 5/7 9/13 M12 10/14 7/10 (# CORRECT/# POSSIBLE) SCORES REPRESENT THE PERCENT OF STUDENTS MASTERING EACH OBJECTIVE DISTRICT STUDENTS TOC TESTED 50 44 TOC 1 TOTAL 5,593 50 57 59 37 6d 2d 26 TOC 2 TOTAL 6,267 79 70 87 86 80 68 73 60 6.7 23 63 25 28 47 TOC 3 TOTAL 7,115 74 73 51 ð1 67 55 6.1 TOC 4 TOTAL 5,499 84 73 90 90 85 74 79 68 7.1 TOC 5 TOTAL 3,218 83 85 71 88 89 72 78 7.0 24 62 46 TOC 6 TOTAL 2,160 76 62 60 25 23 44.0 20 63 65 71 53 58 6.3 83 30 28 43 30 STATE TOTAL 29,852 60 81 73 60 67 51 55 6.1 32 26 32 26

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APPENDIX J

Type of Community Classifications

-93-**121**



TYPE_OF_COMMUNITY

- TOC 1 = LARGE CITY a town with a population of more than 100,000.
- TOC 2 = FRINGE CITY a town contiguous with a large city, and with a population over 10,000.
- TOC 3 = MEDIUM_CITY a town with a population between 25,000 and 100,000 and not a Fringe City.
- TOC 4 = SMALL TOWN (Suburban) a town within an SMSA* with a population of less than 25,000, not a Fringe City.
- TOC 5 = SMALL TOWN (Emerging Suburban) a town with a population of less than 25,000 included in what was a proposed 1980 SMSA but not included in a 1970 SMSA.
- TOC 6 = SMALL TOWN (Rural) a town not included in an SMSA, with a population of less than 25,000.

*Standard Metropolitan Statistical Area



APPENDIX K
Student Participation Rates



CONNECTICUT MASTERY TESTING PROGRAM PRELIMINARY PARTICIPATION RATES FOR FOURTH GRADERS BY DISTRICT SCHOOL YEAR 1985-86

	SCHOOL TEAK 1907-80												
DISTRICT	0CT 1 TOTAL	SEP 23 TOTAL	DIFF	NUM Eligible	<u>ģ</u> Exemp	MATH RATE	NUM Math	LÄ RATE	ΓV N'n M	READ RATE	NUM Read	WRIT RATE	. NUM Writ
ANDOVER	.29	29	Ö	29	0.0	100.0	29	100.0	.?r	96.6	.28	89.7	.26
ANSONIA	149	150	_0 •1	144	4.0	100.0	144	98.6	142	99.3	143	98.6	142
ASHFORD	43	. 113	Ô	42	2.3	100.0	43	100.0	43	100.0	43	100.0	.42
AVON	149	149	Ö	147	1.3	100.0	147	100.0	1117	100.0	147	100.0	147
BARKHAMSTED	31	30	1	29	3.3	100.0	30	100.0	30	100.0	30	100.0	30
BERLIN	137	137	0 0 -1 -3	129	5.8	100.0	136	100.0	134	100.0	133	100.0	136
BETHANY	55	55	_Ó	55	0.0	100.0	55	94.5	.52	96.4	53	98.2	54
BLTHEL	217	218	<u>•1</u>	214	1.8	100.0	214	99.1	212	99.5	<u>213</u>	.99.5	211
BLOOMFIELD	181	18/1		180	2.2	100.0	180	100.0	180	100.0	180	100.0	180
BOLTON	118	48	Ö	45	6.3	100.0	115	97.8	iti	100.0	45	100.0	45
HOZRAH HUXHU ABB	26	21 199	- <u>5</u> - <u>3</u> - 1	21 187	0.0	100.0	21	100.0	21	100.0	21	95.2	.20
HRANI ORD Bridgeport	196 1496	1497	-) - i	196 1284	1.5 14.2	99.5 98.4	195 1264	98.5	193	99.5	195	99.0	194
BRISTOL	528	528	Ö	527	0.8	99.4	1204 524	96.9 99.1	1244 522	99.0	1271	97.4	1250
BROOKFIELD	161	164	-ÿ	156	υ. <u>ε</u> 4. 9	100.0	156	98.1	153	99.4 97.4	5 <u>24</u>	98.3	518
BROOKLÝN	85	82	3	82	. 0.0	100.0	82	100.0	85	100.0	1 <u>52</u> 82	97.4 100.0	152
CANAAN	10	10	ŏ	9	10.0	100.0	ģ	100.0	9	100.0	9	88.9	8 <u>2</u>
CANTERBURY	70	70	Ď	6 9	1,4	97.1	61	97.1	67	97.1	67	95.7	_ <u>8</u> - <u>66</u> 81 17
CANTON	83	83	Ö	81	2.4	100.0	81	100.0	81	100.0	67 81	100.0	ŘÍ
CHAPLIN-	- 30	- 30	. 0	-27	10.0	96.3	26	92.6	25	100.0	ŽŽ	63.0	ĬŻ
CHESHIRE	305	315	-10	308	2.2	100.0	309	100.0	309	100.0	310	99.7	307
CHESTER	137	-37	D	37	0.0	97.3	36	97.3	36	97.3	36	97.3	36
CC1NTON	160	164	-ij	161	1.8	98.8	159	98.8	159	99.4	160	98.8	159
COLCHESTER	115	119	- Li	116	2.5	99.1	115	-98.3	11म	100.0	116	100.0	116
COLLBROOK	11	11	0	11	0.0	100.0	11	100.0	11	100.0	11	100.0	11
COLUMBIA CORNWAEL	49 15	49	0	45	8.2	100.0	45	91.8	411	97.8	ЦЦ	97.8	ijij
COVENIRY	. 15 118	_15 118	0 0	. 15 112	0.0 5.1	186. <i>7</i> 100.0	- 13 112	86.7	-13	86.7	13	86.7	13
CROMWEET	90	110	- 2	. 84	8.7	100.0	. BŅ	-99.1 100.0	13.1 - 84	100.0 100.0	112 - 84	-99,1 100,0	111
DANBURY	598	607	-9	573	5.6	98.8	566	96.9	- 04 555	98.4	- 011 56lj	98.1	-84 562
DARTEN	190	191	• <u>í</u>	189	1:0	99.5	188	97.4	184	97.4	184	-98.4	186
DEEP RIVER	42	42	Ô	42	0.0	100.0	42	100.0	42	100.0	42	100.0	42
DERBY	81	81	Ô	80	1.2	100.0	80	100.0	80	97.5	78	95.0	76
EASTFORD	16	16	Ö	15	6.3	100.0	15	100.0	15	100:0	15	100.0	15
EAST GRANBY	37	<u>37</u>	. Q	31	0.0	100.0	37	100.0	37	100.0	37	100.0	37
EAST HADDAM	.64	64	Q	64	0.0	98.4	.63	98.4	.63	98.4	.63	100.0	.64
EAST HAMPTON	111	111	_Ô	109	<u>l</u> .8	98.2	107	96.3	105	97.2	106	98.2	107
FAST HARTFORD	436	ήΫŎ	-4	418	5.0	100.0	421	100.0	418	100.0	420	100.0	419
FAST HAVEN	183	181	- <u>1</u> -1 0	171	5.5	100.0	172	100.0	171	<u>100.0</u>	<u> 171</u>	100.0	172
EAST LYME Easton	1 <u>64</u>	165	• i	1 <u>65</u>	0.0	98.8	163	98.8	163	100.0	165	98.8	163
EAST WINDSOR	64 72	64 72	ÿ	<u>64</u> 66	0.0 8.3	96.9 100.0	<u>62</u>	96.9	<u>62</u>	96.9	62	96.9	<u>62</u>
ELLINGTON	112	117	-5 -2	109	6.8	99.1	66 108	98.5 100.0	65 109	100.0 100.0	<u>66</u> 109	100.0 100.0	66 100
ENFIELD	380	382	- ź	312	2.6	100.0	372	99.2	369	99.5	370	99.5	109 370
ESSEX	ΫŠ	115	ö	115	ā.ŏ	100.0	45	100.0	45	100.0	45	100.0	45
FAIRFIELD	415	чöő	15	366	8.5	100.0	377	100.0	376	100.0	377	100.0	373
FARMINGTON	144	147	15 •3	137	6.8	99.3	136	99.3	136	98.5	135	100.0	137
FRANKLIN -	29	29	Ô	28	3.4	100.0	28	100.0	28	100, 6	28	100.0	28
CI ASTONHURY	287	287	Õ	279	2.8	97.8	213	100.0	280	100.0	283	99.6	278
GRANBY. I	96	96	Ö	- 96	0.0	-97.9	91	97.9	- 91	97.9	- 9 4	97.9	94
GREENVICK	423	1725	-?	390	8.2	100.0	393	100.0	391	100.0	392	100.0	390
GRISWOLD	131	140	-9	128	8.6	99.2	127	98.4	126	98.4	126	99.2	127
GROTON	425	423	2	418	1,2	97.1	406	97.1	406	98.6	412	95.9	401

PRELIMINARY PARTICIPATION RATES FOR FOURTH GRADERS BY DISTRICT SCHOOL YEAR 1985-86

DISTRICT	OCT 1 TOTAL	SEP 23 TOTAL	DIFF	NUM Eligible	EXEMP	MATH RATE	MUH	_LA_ RATE	NUM Lā	REĀD RĀTE	NUM Read	WRIT RATE	NUM Writ
GUTLFORD	249	252	•3	250	0.8	98.4	246	98.4	2116	98.4	517	5ā ii	
HAMDE N.I.	356	356	õ	353	0.8	100.0	353	97.7	345	99.4 99.4	246 351	98.4	246
HAMPION_	-21	23	Ö	23	0.0	95.7	22	95.7	22	95.7	55 331	99.2 91.3	350
HARTFORD	1733	1815	-82	1619	10.8	96.6	1564	9 2.8	1502	195.1	1539	91.1	21 1475
HARILAND	14	14	Õ	14	0.0	100.0	.14	100.0	-14	100.0	14	100.0	1475
HEBRON	102	99	3	99	0.0	100.0	101	100.0	102	100.0	102	100. ŏ	100
KENT Kielingey	- 34 155	34	Ö	32	<u>5,9</u>	100.0	. 32	10 0:0	_32	100.0	- 32	100.0	ŽŽ
LEBANON	180	180	Ö	179	Õ'ë	100.0	179	10 0.0	179	100.0	179	99.4	178
LEDYARD	_54 206	-59 206	- 5 0	54 202	8.5	100.0	.54	100.0	54	100.0	-54	100.0	511
LISBON	44	47	-3	43	1,9	100.0	202	100.0	202	100;0	505	99.5	201
LITCHFIELD	- 70	- 74	-4	74	8.5 0.0	91.7 08.4	42	97.7	42	_97.7	42	97.7	ΨÇ
MADISON	172	175	-3	177	2.3	<u>98.6</u> 100.0	. 73 171	1 <u>00.0</u> 99.4	. 74	100.9	. 74	-98.6	?3
MANCHESTER	421	431	-10	43i	0.0	98.8	426	99.1	170 42 <i>1</i>	99.U	170	100.0	47.77
MANSFIELD	90	7∀	0	86	4.4	100.0	89	100.0	86	-98.8 100.0	426 86	98.8 97.7	1973 84
MARLBOROUGH	_ 77	_77	0	-77	0.0	100.0	ĬÍ	98.7	_16	100.0	. 77	98.7	-76
MERIDEN	550	553	-3	513	7.2	98.4	505	97.9	502	98.8	507	98.2	507i
MIDDLETOWN	306	304	2	304	0.0	99.3	302	9 9.0	301	98.4	299	98.0	298
MILFORD Monroe	1132	43.1	1	431	Ö.Ö	98.1	423	98.4	424	98.8	426	-99.1	427
MONTVILLE	205 174	205 175	0 -1	203	1.0	100.0	204	100.0	203	1 <u>00.0</u>	203	100.0	203
NAUGATUCK	315	318	-1 -3	175 287	0.0	100.0	175	98.9	173	99.4	179	99.4	174
NEW BRITAIN	494	514	-20	465	9.7 9.5	100.0 98.9	287 1127	99.7	286	99.3	285	99:3	285
NEW CANAAN	189	189	0	186	1.6	97.3	460 181	97.2 94.6	452	98.7	459	96.3	448
NEW FAIRFIELD	183	190	- Ĭ	185	2.6	99.5	184	94.0 99.5	1 <u>76</u> 184	97.8	182	96.2	179
NIW HARTFORD	. 66	. 66	.0	66	n.u	98.5	65	98.5	65	99.5 98.5	18 <u>!</u> (65	99.5	184
NEW HAVEN	1197	1177	20	1080	8.2	96.7	10ĬĬŰ	95.6	1032	98.0	1 <u>058</u>	98.5 96.4	65 1041
NEWINGTON New 1 course	249	247	2	245	0.8	99.6	244	100.0	245	100.0	245	99.6	244
NEW LONDON New Milford	233	231	2	216	6.5	-97.2	210	94.0	203	96.8	209	94.4	204
NEWTOWN	298 257	306	-8	288	5.9	100.0	289	99.7	287	100.0	289	98.6	284
NORFOLK	25 <u>7</u> 16	25 <u>7</u> 15	0	251	2.3	198.4	247	98.8	2/18	98.4	2 <u>47</u>	98.8	21/8
NORTH BRANFORD	149	149	<u>1</u> 0	. 14 149	6.7 0.0	100.0	- 15 150	100.0	15	100.0	15	100.0	. 15
NORTH CANAAN	37	37	Q	36	2.7	100.0 97.2	149 -35	100.0 9 7.2	149	100.0	149	99.3	148
NORTH HAVEN	219	źŠİ	-12	214	7:4	99.5	-39 213	91.2 -98.6	35 211	97.2	35	97.2	35
NORTH STONINGTON	55	59	-11	56	5.1	100.0	56	100.0	-57	99.1 100.0	212 57	99.1 98.2	212
NORWALK	660	660	0	641	2.9	99.4	637	99.5	638	99.7	639	99.5	<u>55</u> 638
NORWICH	368	385	- <u>17</u> -3	3 <u>5.7</u>	7.3	98.9	353	99.4	355	99.4	355	98.3	3 <u>5</u> 1
OUDESAYBROOK Orange	90	93	-3	90	3.2	100.0	190	98.9	89	98.9	89	97.8	88
OXFORD	152 99	149	- ž	149	0.0	99:3	148	100.0	151	100.0	151	100.0	149
PLAINFIELD	176	101 188	-12 -12	101	0.0	99.0	100	99:0	100	99.0	100	99.Ö	100
PLXINVICLE	1/12	147	-16 1	<u>178</u> 141	5.3	98.9	116	-98.3	175	98.9	176	98.9	176
PLYMOUTH	120	127	- '	127	0.0 0.0	99.3 96.2	140	100.0	141	100.0	141	99.3	140
POMERET_	165	45	ò	45	0.0	97.8	123 44	96.1 97.8	122 44	97.6	124	96.9	123
PORTLAND	\tilde{n}	81	-H	12	ĺį,į	100.0	12	100.0	12	97.8 100.0	44 72	97.8	ήų
PRESION	46	116	Ö	46	0.0	100.0	46	100.0	-46	100.0	46	100.0 100.0	72 46
PUINAM	1017	107	Ö	102	4.7	100.0	102	99.0	101	100.0	102	98.0	100
REDDING. 11	-96	97	-1	89	8.2	98.9	.88	98.9	88	97.8	-87	100.0	.89
RANGEFLETD Rocky Hill	250	2111	-1	3 40	1.6	99.6	239	99.2	2.18	100.0	240	100.0	21/0
SALLM	127 43	127	Ü 76	123	3,1	<u>100.0</u>	123	<u>100.0</u>	123	100.0	123	100,0	123
SALISBURY	43 31	113 31	() O	43 26	0,0	100.0	43	100.0	113	100:0	43	100.0	43
•		ų i	U	ru	16.1	100.0	26	100.0	26	100:0	26	10010	26



CONNECTICUT MASTERY TESTING PROGRAM PRELIMINARY PARTICIPATION RATES FOR FOURTH GRADERS BY DISTRICT SCHOOL YEAR 1985-86

					MINOUE THE	1707.00		-					
DISTRICT	OCT 1 TOTAL	SEP 23 TOTAL	1110	NUM - Eligible	- % - Eximp	MATH RATE	NOM MATH	_LA_ RATE	NUM LX	READ RATE	_NUM read	WRII RATE	NUM Writ
ELUA: YEW	i.v	(6	1	 1E	n n	100.0	. 15	100; O	. 15	100,0	. 15	100:0	_15
SCO*LAND	16	15		-15	0.0		- 19 149	100.0	- 19 149	160;0	149	28.7	147
ST YMOUR	149	149	Ü.	149	0.0	100.0					13	100:0	
SHARON	14	- 14	Ü,	_13	7,1	10010	13	100.0	13	100:0			13
SHELTON	301	306	-5	291 10	4.9	100;0	291	100:0	29 <i>1</i>	100:0	29 <i>7.</i>	100:0 100:0	296
SHI RMAN	19	_19	0	19	0.0	100:0	19	100:0	19	100.0	.19 260	100.0	19
SIMSBURY	263	262	!	262	0.0	99.6	261	99.2	260	98:9	259		262
SOMERS	69	13	-4	_73	0.0	91.3	71	100.0	13	100:0	13	100.0	_73
SOUTHINGTON	431	430	1	417	3.0	199;3	914 226	99:0	413	.99:5	415	99.0	413
SOUTH WINDSOR	226	226	0	224	0.9	100.0	226	100:0	224	100:Q	?2 <u>6</u>	100:0	226
SPRACUL -	20	20	0	119	5:0	100:0	.19	100.0	.19	100.0	.19	100.0	19
STAITORD	111	116	-5	106	8:6	100;0	107	99.1	105	100.0	106	99.1	105
STAMFORD	750	741	3	718	3.9	98.5	707	97.9	7()3	.99.2	712	99.2	712
STERLING-	22	-55	0	.21	4:5	100:0	.22	100.0	.22	100.0	.22	100.0	22
STONINGTON	152	154	-2	152	1:3	100.0	153	100.0	152	100.0	152	98.7	150
STRATFORD	390	388	2	385	8.0	99.5	383	99.5	383	99.2	382	99.0	<u> 38 I</u>
SULLIEFD	Ш	111	Ω	111	0.0	98.2	103	98.2	109	98.2	109	97. <u>3</u>	108
IHOMASION	83	83	Ω	83	0.0	1 <u>00</u> , 0	83	100.0	83	100.0	83	97.6	81
IHOMPSON	.88	.88	Ō	79	10.2	94.9	75	93.7	74	92.4	73	100.0	79
TOULAND	142	192	Ω	142	0.0	100.0	142	99.3	141	100.0	142	98.6	140
TOKRINGTON	263	263	0	254	3.4	98.4	250	98.4	250	98.8	251	99,2	252
IRUMBULL	321	322	-1	32 <u>1</u>	0.3	99.7	350	99.4	31 <u>9</u>	99.4	319	99.7	320
UNION	6	6	0	-6	0.0	100.0	6	100.0	6	100.0	6	100.0	6 550
VERNON	284	285	-1	283	0.7	98.6	279	96.8	274	98.9	280	98 6	279
VOLUNIONN	. 30	20	0	20	0.0	100.0	20	100.0	20	100.0	20	90.0	18
WALLINGFORD	417	416		412	1.0	99.8	411	99.0	108	99.0	4()8	98.8	107
WATERBURY	973	1 <u>042</u>	-6 <u>9</u>	9117	9.1	97.1	920	96.B	917	97.5	921	96.8	917
WATERFORD	15 <u>8</u>	158	_0	150	5.1	100.0	150	99.3	149	100.0	150	100.0	150
WATERTOWN	215	224	-9	217	3.1	100.0	217	100.0	218	99.5	216	100.0	217
WESTBROOK	47	47	_ ,0	43	8.5	100.0	43	100.0	43	100.0	-43	100.0	-43
WEST HARTFORD	525	535	- 10	514	3.9	100.0	515	100.0	514	100.0	515	99.8	513
<u>WEST H</u> AVEN	455	454	1	417	8.1	99.5	415	99.3	1114	99.8	Ųίσ	-99.0	413
WESTON	92	92	_0	90	2.2	98.9	- 89	-98.9	-89	100.0	_90 200	100,0	_90
WESTPORT	228	236	-8	224	5.1	100.0	224	100.0	224	99.1	222	99.1	222
WEIHERSFIELD	170	172	-2	172	0.0	98.3	169	97.1	167	98.3	169	97.7	168
WILLINGTON	51	57	Ö	54	5.3	98.1	-53	96.3	-52	98.1	-53	100.0	_54 172
WILTON	173	173	Ö	177	0.6	99.4	171	91.7	168	97.1	167	100.0	172
WINCHESTER	94	94	Ö	90	4.3	98.9	_89	97.8	_88	100.0	::90	100.0	90 200
MAHDHAM	232	232	Ö	221	4.7	95.9	212	95.5	211	95.9	212	911.6	209
WINDSOR	272	272	Õ	265	2.6	98.5	261	98.1	260	98.5	261	98.5	261
WINDSOR LOCKS	92	92	Ō	-82	10.9	100.0	-92	100:0	.92	100.0	.92	100:0	.92
WOLCOTT	152	155	-3	155	0.0	94.8	147	94.2	146	94.8	147	94.8	147
WOODBRIDGE	93	93	0	93	0.0	-96.8	90	97.8	91	97.8	91	97.8	91
WOODSTUCK	48	47	1	47	-0.0	100.0	41	95.1	45	100.0	47	97.9	96 50
REGIONAL DIST 6	-5B	- 59	-1	_51	13.6	19810	.50	98:0	.50	98.0	50	98.0	.50 120
REGIONAL DIST 10	138	138	0	134	2.9	100;0	134	.98.5	132	99.3	133	97.0	130
RIGIONAL DIST 12	-72	_12	0	12	0.0	100:0	.72	100.0	.72	100.0	72	98.6	71
REGIONAL DIST 13	112	112	0	109	1.5.	100:0	109	100.0	109	100.0	109	100.0	109
RIGIONAL DIST 14	122	122	0	109	10.7	100.0	109	100.0	109	100.0	1()9	100.0	110
REGIONAL DIST 15	196	202	-6	202	0;0	96.0	194	96.0	194	96.5	195	96.0	194
RICIONAL DIST 16	134	134	0	133	0.7	100.0	133	100.0	133	100.0	133	100.0	133
REGIONAL DIST 17	125	130	-5	125	3.8	.99.2	124	99.2	124	98.4	123	99.2	124
REGIONAL DIST 18	88	88	0	84	4.5	100.0	85	100.0	85	100.0	85	100.0	85

TERIC

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