

A series of blue silhouettes of people in various walking and standing poses are arranged along the top of the green wavy line. The text "Indiana Department of Education" is centered in a bold, blue font above the line.

## Indiana Department of Education

**Glenda Ritz, NBCT**  
Indiana Superintendent of Public Instruction

To: State Board of Education

From: Risa Regnier, Assistant Superintendent

Date: June 4, 2014

Re: Review of pass rates and cut scores for CASA basic skills assessments

Since July 1, 2011, passage of basic skills assessments or an approved alternative have been required for admission to Indiana teacher preparation programs. The current basic skills assessments are the Core Academic Skills Assessments (CASA) in Math, Reading and Writing. Students taking these tests do not meet one of the approved alternatives for demonstrating proficiency in basic skills:

- ACT with a score of at least 24 based on Math, Reading, Grammar, and Science;
- SAT with a score of at least 1100 based on Critical Reading and Math;
- GRE with a score of at least 1100 based on Verbal and Quantitative prior to 8/1/11;
- GRE with a score of at least 301 based on Verbal and Quantitative on or after 8/1/11; or
- Hold a master's degree or higher from an accredited institution

The State Board of Education approved the passing scores for the CASA assessments in December 2012. Candidates began taking the CASA assessments July 1, 2013 during the phase-out of the former Praxis I basic skills assessments. As of September 1, 2013, only CASA has been available to test takers.

Attached you will find pass rate data from Indiana test takers for the period 7/1/13 to 3/31/14. This data is provided so that you may discuss and consider options for addressing the current pass rates as they impact admission into teacher preparation.

**Option 1:** Make no change

**Option 2:** Approve the panel-recommended scores for individual subtests (non-compensatory model)

**Option 3:** Retain the +1 SEM scores for individual subtests and approve a compensatory model (sometimes referred to as a composite score)

**Option 4:** Approve the panel-recommended scores for individual subtests and approve a compensatory model

Representatives from Pearson ES will be present to provide background on the score setting process, explain the pass rate data and answer questions.



**Core Academic Skills Assessment (CASA)**

**Pass Rate Analysis**

**Prepared for the Indiana Department of Education**

**May 28, 2014**

**Indiana CORE Assessments for Educator Licensure  
Core Academic Skills Assessment (CASA)  
Pass Rate Analysis  
July 1, 2013 – March 31, 2014**

**Pass Rate Computed for Each Subtest**

Subtest Field	Number of Examinees and Their Percent At or Above Passing Score							Subtest with CRI
	Number Tested	Test Length	At Panel-based Passing Score +2 SEM % Pass	At Panel-based Passing Score +1 SEM % Pass	At Panel-based Passing Score % Pass	At Panel-based Passing Score -1 SEM % Pass	At Panel-based Passing Score -2 SEM % Pass	
001 CASA - Reading	1667	32	33%	61%	83%	95%	99%	
002 CASA - Mathematics	1554	32	27%	44%	64%	81%	93%	
003 CASA - Writing	1461	33	35%	57%	71%	81%	90%	√

**Total Assessment Pass Rate Computed via Non-Compensatory Model—Pass when all subtests are taken and passed, each subtest scaled score of 220 or greater.**

Assessment	Number of Examinees and Their Percent At or Above Score						
	Number Taking All Subtests	Adjustments M/C Section CRI Section	At Panel-based Passing Score +2 SEM No Adjustment % Pass	At Panel-based Passing Score +1 SEM No Adjustment % Pass	At Panel-based Passing Score No Adjustment % Pass	At Panel-based Passing Score -1 SEM No Adjustment % Pass	At Panel-based Passing Score -2 SEM No Adjustment % Pass
CASA - Total Assessment	1331		12%	31%	53%	72%	86%

**Notes:**

Indiana State Board of Education adopted passing score level. Adopted December 2012.

SEM = Standard Error of Measurement

CRI = Constructed-response item. For CASA – Writing, the constructed-response component passing score was adopted by the SBOE at the panel-based value.

**Interpretive Notes:**

- Data are supplied for examinees taking the tests from July 1, 2013 through March 31, 2014.
- Data reflect examinees' initial (first time) attempts.
- Passing scores for these tests were adopted by the Indiana State Board of Education in December 2012.
- The examinees for whom results are presented in this document may not reflect the same proportion of all the types and capabilities of examinees in the population who will take the tests in the future.

This document includes some materials that are test secure and/or confidential for other reasons. As such, it should not be circulated to unauthorized persons.  
The accompanying notes are an integral part of this document.

**Indiana CORE Assessments for Educator Licensure  
Core Academic Skills Assessment (CASA)  
Pass Rate Analysis  
July 1, 2013 – March 31, 2014**

**Total Assessment Pass Rate Computed via Non-Compensatory Model—Pass when all subtests are taken and passed, each subtest scaled score of 220 or greater.**

Assessment	Number of Examinees and Their Percent At or Above Score						
	Number Taking All Subtests	Adjustments	At Panel-based Passing Score +2 SEM	At Panel-based Passing Score +1 SEM	At Panel-based Passing Score	At Panel-based Passing Score -1 SEM	At Panel-based Passing Score -2 SEM
		M/C Section	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment
CASA - Total Assessment	1331	CRI Section	% Pass	% Pass	% Pass	% Pass	% Pass
			12%	31%	53%	72%	86%

**Total Assessment Pass Rate Computed via a Fully Compensatory Model—Pass if all subtests are taken and the total scaled score is 660 or greater.**

Assessment	Number of Examinees and Their Percent At or Above Score						
	Number Taking All Subtests	Adjustments	At passing scores +2 SEM	At Panel-based Passing Score +1 SEM	At Panel-based Passing Score	At passing score -1 SEM	At passing score -2 SEM
		M/C Section	No Adjustment	No Adjustment	No Adjustment	No Adjustment	No Adjustment
CASA - Total Assessment	1331	CRI Section	% Pass	% Pass	% Pass	% Pass	% Pass
			26%	56%	78%	91%	98%

**Notes:**

Indiana State Board of Education adopted passing score level. Adopted December 2012.

SEM = Standard Error of Measurement

CRI = Constructed-response item. For CASA – Writing, the constructed-response component passing score was adopted by the SBOE at the panel-based value.

**Interpretive Notes:**

- Data are supplied for examinees taking the tests from July 1, 2013 through March 31, 2014.
- Data reflect examinees' initial (first time) attempts.
- Passing scores for these tests were adopted by the Indiana State Board of Education in December 2012.
- The examinees for whom results are presented in this document may not reflect the same proportion of all the types and capabilities of examinees in the population who will take the tests in the future.

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**Indiana CORE Assessments for Educator Licensure  
Core Academic Skills Assessment (CASA): Passing Standard Options for Discussion**

**Option 1: Leave passing standards at current level (Panel-based +1 SEM) and maintain non-compensatory model**

Assessment	Number of Examinees and Their Percent At or Above Score		
	Number Taking All Subtests	Adjustments M/C Section CRI Section	At Panel-based Passing score +1 SEM  No Adjustment
CASA - Total Assessment	1331		31%

**Option 2: Set passing standards to Panel-based level and maintain non-compensatory model**

Assessment	Number of Examinees and Their Percent At or Above Score		
	Number Taking All Subtests	Adjustments M/C Section CRI Section	At Panel-based Passing score  No Adjustment
CASA - Total Assessment	1331		53%

**Option 3: Leave passing standards at current level (Panel-based +1 SEM) and implement a fully compensatory model**

Assessment	Number of Examinees and Their Percent At or Above Score		
	Number Taking All Subtests	Adjustments M/C Section CRI Section	At Panel-based Passing score +1 SEM  No Adjustment
CASA - Total Assessment	1331		56%

**Option 4: Set passing standards to Panel-based level and implement a fully compensatory model**

Assessment	Number of Examinees and Their Percent At or Above Score		
	Number Taking All Subtests	Adjustments M/C Section CRI Section	At Panel-based Passing score  No Adjustment
CASA - Total Assessment	1331		78%

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**Indiana CORE Assessments for Educator Licensure**  
Core Academic Skills Assessment (CASA)  
Pass Rate Analysis – July 1, 2013 – March 31, 2014  
Prepared for the Indiana Department of Education

INTERPRETIVE NOTES

The notes below are an integral part of the accompanying tables.

- Data are supplied for examinees taking the tests from July 1, 2013 through March 31, 2014.
- Data reflect examinees' initial (first time) attempts.
- Passing scores for these tests were adopted by the Indiana State Board of Education in December 2012.
- **Panel-Based Passing Score.** The panel-based multiple-choice passing score is the sum of medians of panel member item judgments for the multiple-choice scorable item set, rounded to the nearest integer. For the constructed-response item the panel-recommended raw score is presented.
- **Number of Examinees and Their Percent At or Above Panel-based Score** = the number of examinees and the percent of those examinees at or above the passing score.
  - **Number Tested** = number of examinees who took the test.
  - **Test Length** = number of scorable multiple-choice items included in the test.
  - **Percent Pass At Panel-Based Multiple-Choice or Combined Multiple-Choice and Constructed-Response Passing Standard** = sum of medians of panel member item judgments, rounded to the nearest integer.
  - **Percent Pass At Panel-Based Multiple-Choice or Combined Multiple-Choice and Constructed-Response Passing Standard Minus One (or Two) S.E.M.** = sum of medians of panel member item judgments minus one (or two) Standard Error(s) of Measurement (S.E.M.), rounded to the nearest integer.
  - **Percent Pass At Panel-Based Multiple-Choice or Combined Multiple-Choice and Constructed-Response Passing Standard Plus One (or Two) S.E.M.** = sum of medians of panel member item judgments plus one (or two) Standard Error(s) of Measurement (S.E.M.), rounded to the nearest integer.
  - **SEM (Estimated Standard Error of Measurement)** =  $\sqrt{(1 / (i - 1)) \times c \times (i - c)}$  where  $i$  = number of scorable multiple-choice items on the test and  $c$  = panel-based passing standard.
  - **% Pass** = the percent of examinees who would pass at the given combination of multiple-choice and constructed-response item scores.

INTERPRETIVE CAUTIONS

- Extreme caution should be used in interpreting data for small numbers of examinees.
- The examinees for whom results are presented in this document may not reflect the same proportion of all the types and capabilities of examinees in the population who will take the tests in the future.