

Grade	Mathematics Total Number of Students	Operations and Algebraic Thinking: Represent and solve problems involving multiplication and division. - Item Range Count	Operations and Algebraic Thinking: Represent and solve problems involving multiplication and division. - %	Operations and Algebraic Thinking: Understand properties of multiplication and the relationship between multiplication and division. - Item Range Count	Operations and Algebraic Thinking: Understand properties of multiplication and the relationship between multiplication and division. - %	Operations and Algebraic Thinking: Multiply and divide within 100. Item Range Count	Operations and Algebraic Thinking: Multiply and divide within 100. - %
3	10712	3-4	73.6	4-5	72.3	3	60.8
4	10397	Operations and Algebraic Thinking: Use the four operations with whole numbers to solve problems. - Item Range Count	Operations and Algebraic Thinking: Use the four operations with whole numbers to solve problems. - %	Operations and Algebraic Thinking: Gain familiarity with factors and multiples. - Item Range Count	Operations and Algebraic Thinking: Gain familiarity with factors and multiples. - %	Operations and Algebraic Thinking: Generate and analyze patterns. - Item Range Count	Operations and Algebraic Thinking: Generate and analyze patterns. - %
5	10214	Operations and Algebraic Thinking: Write and interpret numerical expressions. - Item Range Count	Operations and Algebraic Thinking: Write and interpret numerical expressions. - %			Operations and Algebraic Thinking: Analyze patterns and relationships. - Item Range Count	Operations and Algebraic Thinking: Analyze patterns and relationships. - %
		6-7	53.6			1	48.4

	Mathematics Total Number of Students	HS - Number and Quantity: Quantities: Reason quantitatively and use units to solve problems. - Item Range Count	HS - Number and Quantity: Quantities: Reason quantitatively and use units to solve problems. - %	HS - Algebra: Seeing Structure in Expressions: Interpret the structure of expressions. - Item Range Count	HS - Algebra: Seeing Structure in Expressions: Interpret the structure of expressions. - %	HS - Algebra: Seeing Structure in Expressions: Write expressions in equivalent forms to solve problems. - Item Range Count	HS - Algebra: Seeing Structure in Expressions: Write expressions in equivalent forms to solve problems. - %
11	9498	1	54.8	1	63.6	2-3	47.4
<p>The percentage DOES indicate on average the percentage of items that students got correct.</p> <p>For example if you had 5 students take the test of 10 items.</p> <p>Student 1 scored 8/10 = 80% correct. Student 2 scored 7/10 = 70% correct. Student 3 scored 5/10 = 50% correct. Student 4 scored 9/10 = 90% correct. Student 5 scored 8/10 = 80% correct.</p> <p>The average percent correct would be (80+70+50+90+80) divided by 5.</p> <p>So the % correct would be 74%. This is the percent that is being displayed on the report.</p>							
<p>The number of items vary because each form has different field test items that measure different standards. For example in Form A there may be two items aligned to a standard, Form B zero items aligned to that standard, Form C three items and Form D one item. Hence the reason for item ranges from 1 to 3 items.</p>							
<p>These items also include the Dakota STEP items that were aligned to the common core.</p>							
<p>Be careful when making decision concerning these standards. Any standard that has less than 7 items, you need to be careful when making curriculum decisions.</p>							

2012 CCSS State Mathematics Results

Number and Operations in Base Ten: Use place value understanding and properties of operations to perform multi-digit arithmetic. - Item Range Count	Number and Operations in Base Ten: Use place value understanding and properties of operations to perform multi-digit arithmetic. - %	Number and Operations - Fractions: Develop understanding of fractions as numbers. - Item Range Count	Number and Operations - Fractions: Develop understanding of fractions as numbers. - %	Measurement and Data: Solve problems involving measurement and estimation of intervals of time liquid volumes and masses of objects. - Item Range Count	Measurement and Data: Solve problems involving measurement and estimation of intervals of time liquid volumes and masses of objects. - %	Measurement and Data: Represent and interpret data. - Item Range Count	Measurement and Data: Represent and interpret data. - %
8-10	69.2	2	83.2	2	63.3	1	76.0
Number and Operations in Base Ten: Generalize place value understanding for multi-digit whole numbers. - Item Range Count	Number and Operations in Base Ten: Generalize place value understanding for multi-digit whole numbers. - %	Number and Operations in Base Ten: Use place value understanding and properties of operations to perform multi-digit arithmetic. - Item Range Count	Number and Operations in Base Ten: Use place value understanding and properties of operations to perform multi-digit arithmetic. - %	Number and Operations - Fractions: Extend understanding of fraction equivalence and ordering. - Item Range Count	Number and Operations - Fractions: Extend understanding of fraction equivalence and ordering. - %	Measurement and Data: Represent and interpret data. - Item Range Count	Measurement and Data: Represent and interpret data. - %
3-4	78.5	4	67.2	1	54.2	2	70.4
Number and Operations in Base Ten: Understand the place value system. - Item Range Count	Number and Operations in Base Ten: Understand the place value system. - %	Number and Operations in Base Ten: Perform operations with multi-digit whole numbers and with decimals to hundredths. - Item Range Count	Number and Operations in Base Ten: Perform operations with multi-digit whole numbers and with decimals to hundredths. - %			Measurement and Data: Represent and interpret data. - Item Range Count	Measurement and Data: Represent and interpret data. - %
4	52.5	1-2	70.7			3	70.6

The Number System: Apply and extend previous understandings of numbers to the system of rational numbers. - Item Range Count	The Number System: Apply and extend previous understandings of numbers to the system of rational numbers. - %	Expressions and Equations: Apply and extend previous understandings of arithmetic to algebraic expressions. - Item Range Count	Expressions and Equations: Apply and extend previous understandings of arithmetic to algebraic expressions. - %	Expressions and Equations: Reason about and solve one-variable equations and inequalities. - Item Range Count	Expressions and Equations: Reason about and solve one-variable equations and inequalities. - %	Statistics and Probability: Summarize and describe distributions. - Item Range Count	Statistics and Probability: Summarize and describe distributions. - %
1-3	76.0	6-7	60.5	1-3	72.7	2	63.2
Expressions and Equations: Solve real-life and mathematical problems using numerical and algebraic expressions and equations. - Item Range Count	Expressions and Equations: Solve real-life and mathematical problems using numerical and algebraic expressions and equations. - %	Geometry: Draw construct and describe geometrical figures and describe the relationships between them. - Item Range Count	Geometry: Draw construct and describe geometrical figures and describe the relationships between them. - %	Statistics and Probability: Investigate chance processes and develop use and evaluate probability models. - Item Range Count	Statistics and Probability: Investigate chance processes and develop use and evaluate probability models. - %		
1-2	75.1	2	65.0	1	73.0		
Expressions and Equations: Analyze and solve linear equations and pairs of simultaneous linear equations. - Item Range Count	Expressions and Equations: Analyze and solve linear equations and pairs of simultaneous linear equations. - %	Geometry: Understand and apply the Pythagorean Theorem. - Item Range Count	Geometry: Understand and apply the Pythagorean Theorem. - %	Statistics and Probability: Investigate patterns of association in bivariate data. - Item Range Count	Statistics and Probability: Investigate patterns of association in bivariate data. - %		
6	54.3	1	71.5	3	74.4		

HS - Algebra: Arithmetic with Polynomials and Rational Expressions: Perform arithmetic operations on polynomials. - Item Range Count	HS - Algebra: Arithmetic with Polynomials and Rational Expressions: Perform arithmetic operations on polynomials. - %	HS - Algebra: Arithmetic with Polynomials and Rational Expressions: Understand the relationship between zeros and factors of polynomials. - Item Range Count	HS - Algebra: Arithmetic with Polynomials and Rational Expressions: Understand the relationship between zeros and factors of polynomials. - %	HS - Algebra: Arithmetic with Polynomials and Rational Expressions: Rewrite rational expressions. - Item Range Count	HS - Algebra: Arithmetic with Polynomials and Rational Expressions: Rewrite rational expressions. - %	HS - Algebra: Reasoning with Equations and Inequalities: Solve equations and inequalities in one variable. - Item Range Count	HS - Algebra: Reasoning with Equations and Inequalities: Solve equations and inequalities in one variable. - %
1	58.2	1	48.9	1-2	35.4	1	42.7

