

**Rolla
Kansas Math Assessment Results
High School**

Indicator	Average % Correct 2006	Average % Correct 2007
1.2.K3a-e Names, uses, and describes properties with the real number system and demonstrates their meaning including the use of concrete objects.	61.2	62.5
2.2.K3c Solves systems of linear equations with two unknowns using integer coefficients and constants.	44.0	38.5
2.3.K6 Recognizes how changes in the constant and/or slope within a linear function changes the appearance of a graph.	55.7	65
3.4.K4 Finds and explains the relationships between the slopes of parallel and perpendicular lines	51.2	56.2
3.4.K6 Recognizes the equation of a line a transforms the equation into slope-intercept form in order to identify the slope and y-intercept and uses this information to graph the line.	60.2	70.5
4.1.K3 Explains the relationship between probability and odds and computes one given the other.	33.9	51.6
4.2.K4 Explains the effects of outliers on the measures of central tendency and range and inter quartile range of a real number data set	69.6	76.6
4.2.K5 Approximates a line of best fit given a scatter plot and makes predictions using the equation of that line.	69.5	67.9
1.3.A1 Adjusts original rational number estimate of a real-world problem based on additional information.	58.6	62.5
1.4.A1a,b,d Generates and/or solves multi-step real-world problems with real number and algebraic expressions using computational procedures and mathematical concepts.	48.6	67.5
2.2.A2a Represents and solves real-world problems with linear equations and inequalities both analytically and graphically.	61.9	58.3
2.3.A2 Interprets the meaning of the x- and y- intercepts, slope, and /or points on and off the line on a graph in the context of a real world problem	65.5	63.5
3.1.A1b Solves real-world problems by applying the Pythagorean Theorem.	67.9	50
3.3.A1 Analyzes the impact of transformations on the perimeter and area of circles, rectangles, and triangles and volume of rectangular prisms and cylinders.	47.6	57.3
4.2.A1a-h Uses data analysis in real-world problems with rational number data sets to compare and contrast two sets of data, to make accurate inferences and predictions, to analyze decisions, and to develop convincing arguments from data displays.	54.3	58.8