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HSA Item Number	Answer	Indicators Assessed
1	С	<b>1.1.1</b> The student will recognize, describe, and/or extend patterns and functional relationships that are expressed numerically, algebraically, and/or geometrically.
2	F	<b>1.1.3</b> The student will apply addition, subtraction, multiplication, and/or division of algebraic expressions to mathematical and real-world problems.
3	Α	<b>1.1.2</b> The student will represent patterns and/or functional relationships in a table, as a graph, and/or by mathematical expression.
4	Н	<b>1.1.4</b> The student will describe the graph of a non-linear function and discuss its appearance in terms of the basic concepts of maxima and minima, zeros (roots), rate of change, domain and range, and continuity.
5	D	<b>1.2.5</b> The student will apply formulas and/or use matrices (arrays of numbers) to solve real-world problems.
6	BCR	<b>3.1.2</b> The student will use the measures of central tendency and/or variability to make informed conclusions.
7	В	<b>1.2.3</b> The student will solve and describe using numbers, symbols, and/or graphs if and where two straight lines intersect.
8	F	<b>1.2.2</b> The student will solve linear inequalities and describe the solutions using numbers, symbols, and/or graphs.
9	С	<b>1.1.1</b> The student will recognize, describe, and/or extend patterns and functional relationships that are expressed numerically, algebraically, and/or geometrically.
10	Н	<b>1.1.4</b> The student will describe the graph of a non-linear function and discuss its appearance in terms of the basic concepts of maxima and minima, zeros (roots), rate of change, domain and range, and continuity.
11	D	<b>3.2.1</b> The student will make informed decisions and predictions based upon the results of simulations and data from research.
12	ECR	<ul> <li>1.1.1 The student will recognize, describe, and/or extend patterns and functional relationships that are expressed numerically, algebraically, and/or geometrically.</li> <li>1.1.2 The student will represent patterns and/or functional relationships in a table, as a graph, and/or by mathematical expression.</li> </ul>

13	.37 .375 .38 .4	simulations or statistical inference from data to estimate the probability of an event.
14	14	<b>1.2.1</b> The student will determine the equation for a line, solve linear equations, and/or describe the solutions using numbers, symbols, and/or graphs.
15	Range 0.6 to 0.6143	<b>3.1.3</b> The student will calculate theoretical probability or use simulations or statistical inference from data to estimate the probability of an event.
16	BCR	<b>3.2.2</b> The student will interpret data and/or make predictions by finding and using a line of best fit and by using a given curve of best fit.
17	С	<b>3.2.3</b> The student will communicate the use and misuse of statistics.
18	G	<b>1.1.2</b> The student will represent patterns and/or functional relationships in a table, as a graph, and/or by mathematical expression.
19	С	<b>1.2.4</b> The student will describe how the graphical model of a non-linear function represents a given problem and will estimate the solution.
20	J	<b>3.1.3</b> The student will calculate theoretical probability or use simulations or statistical inference from data to estimate the probability of an event.
21	ECR	<ul> <li>1.2.1 The student will determine the equation for a line, solve linear equations, and/or describe the solutions using numbers, symbols, and/or graphs.</li> <li>1.2.2 The student will solve linear inequalities and describe the solutions using numbers, symbols, and/or graphs.</li> </ul>
22	J	<b>1.2.4</b> The student will describe how the graphical model of a non-linear function represents a given problem and will estimate the solution.
23	В	<b>1.2.1</b> The student will determine the equation for a line, solve linear equations, and/or describe the solutions using numbers, symbols, and/or graphs.
24	F	<b>1.1.3</b> The student will apply addition, subtraction, multiplication, and/or division of algebraic expressions to mathematical and real-world problems.
25	D	<b>1.2.3</b> The student will solve and describe using numbers, symbols, and/or graphs if and where two straight lines intersect.
26	J	<b>1.2.2</b> The student will solve linear inequalities and describe the solutions using numbers, symbols, and/or graphs.
27	Α	<b>3.1.1</b> The student will design and/or conduct an investigation that uses statistical methods to analyze data and communicate results.
28	Н	<b>1.2.5</b> The student will apply formulas and/or use matrices (arrays of numbers) to solve real-world problems.

29	А	<b>3.2.2</b> The student will interpret data and/or make predictions by finding and using a line of best fit and by using a given curve of best fit.
30	ECR	<ul><li>3.2.1 The student will make informed decisions and predictions based upon the results of simulations and data from research.</li><li>3.2.3 The student will communicate the use and misuse of statistics.</li></ul>
31	С	<b>3.1.2</b> The student will use the measures of central tendency and/or variability to make informed conclusions.
32	J	<b>3.2.1</b> The student will make informed decisions and predictions based upon the results of simulations and data from research.
33	В	<b>1.2.1</b> The student will determine the equation for a line, solve linear equations, and/or describe the solutions using numbers, symbols, and/or graphs.
34	F	<b>3.1.2</b> The student will use the measures of central tendency and/or variability to make informed conclusions.
35	BCR	<b>3.1.1</b> The student will design and/or conduct an investigation that uses statistical methods to analyze data and communicate results.
36	840	<b>1.2.5</b> The student will apply formulas and/or use matrices (arrays of numbers) to solve real-world problems.
37	2.5	<b>1.2.3</b> The student will solve and describe using numbers, symbols, and/or graphs if and where two straight lines intersect.
38	15.25	<b>1.1.1</b> The student will recognize, describe, and/or extend patterns and functional relationships that are expressed numerically, algebraically, and/or geometrically.

Student responses to Constructed Response items can be found in the scoring section of the mdk12.org site.

Herr do watest what students have be med in grades 9-122

Other assessments