

| Standards | | Search |
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| 2006 Algebra/Data Analysis Assessment | | |
| Answer Key | | |
| HSA Item Number | Answer | Indicators Assessed |
| 1 | B | 1.2.5 The student will apply formulas and/or use matrices (arrays of numbers) to solve real-world problems. |
| 2 | G | 1.1.1 The student will recognize, describe, and/or extend patterns and functional relationships that are expressed numerically, algebraically, and/or geometrically. |
| 3 | C | 3.2.2 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. |
| 4 | G | 1.2.2 The student will solve linear inequalities and describe the solutions using numbers, symbols, and/or graphs. |
| 5 | C | 3.2.3 The student will communicate the use and misuse of statistics. |
| 6 | BCR | 3.1.1 The student will design and/or conduct an investigation that uses statistical methods to analyze data and communicate results. |
| 7 | D | 3.1.2 The student will use the measures of central tendency and/or variability to make informed conclusions. |
| 8 | H | 1.1.2 The student will represent patterns and/or functional relationships in a table, as a graph, and/or by mathematical expression. |
| 9 | B | 3.2.1 The student will make informed decisions and predictions based upon the results of simulations and data from research. |
| 10 | H | 3.2.1 The student will make informed decisions and predictions based upon the results of simulations and data from research. |
| 11 | D | 1.2.4 The student will describe how the graphical model of a non-linear function represents a given problem and will estimate the solution. |
| 12 | ECR | 1.1.1 The student will recognize, describe, and/or extend patterns and functional relationships that are expressed numerically, algebraically, and/or geometrically. 1.1.2 The student will represent patterns and/or functional relationships in a table, as a graph, and/or by mathematical expression. |
| 13 | 40 | 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. |
| 14 | 0.186 | 3.1.3 The student will calculate theoretical probability or use simulations or statistical inference from data to estimate the |

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| | | probability of an event. |
| 15 | 5 | 1.2.3 The student will solve and describe using numbers, symbols, and/or graphs if and where two straight lines intersect. |
| 16 | BCR | 3.2.2 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 | D | 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. |
| 18 | J | 1.1.2 The student will represent patterns and/or functional relationships in a table, as a graph, and/or by mathematical expression. |
| 19 | B | 1.1.4 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. |
| 20 | F | 1.2.3 The student will solve and describe using numbers, symbols, and/or graphs if and where two straight lines intersect. |
| 21 | A | 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. |
| 22 | H | 1.1.4 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. |
| 23 | C | 1.1.3 The student will apply addition, subtraction, multiplication, and/or division of algebraic expressions to mathematical and real-world problems. |
| 24 | ECR | 3.2.2 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. 3.2.3 The student will communicate the use and misuse of statistics. |
| 25 | 0.2 | 3.1.3 The student will calculate theoretical probability or use simulations or statistical inference from data to estimate the probability of an event. |
| 26 | 665 | 1.2.5 The student will apply formulas and/or use matrices (arrays of numbers) to solve real-world problems. |
| 27 | 10.2 | 1.1.1 The student will recognize, describe, and/or extend patterns and functional relationships that are expressed numerically, algebraically, and/or geometrically. |
| 28 | BCR | 3.1.2 The student will use the measures of central tendency and/or variability to make informed conclusions. |
| 29 | A | 1.2.3 The student will solve and describe using numbers, symbols, and/or graphs if and where two straight lines intersect. |

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| 30 | J | 3.1.1 The student will design and/or conduct an investigation that uses statistical methods to analyze data and communicate results. |
| 31 | C | 1.2.5 The student will apply formulas and/or use matrices (arrays of numbers) to solve real-world problems. |
| 32 | J | 3.1.2 The student will use the measures of central tendency and/or variability to make informed conclusions. |
| 33 | A | 3.1.3 The student will calculate theoretical probability or use simulations or statistical inference from data to estimate the probability of an event. |
| 34 | ECR | 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. 1.2.2 The student will solve linear inequalities and describe the solutions using numbers, symbols, and/or graphs. |
| 35 | C | 1.1.1 The student will recognize, describe, and/or extend patterns and functional relationships that are expressed numerically, algebraically, and/or geometrically. |
| 36 | H | 1.2.4 The student will describe how the graphical model of a non-linear function represents a given problem and will estimate the solution. |
| 37 | A | 1.1.3 The student will apply addition, subtraction, multiplication, and/or division of algebraic expressions to mathematical and real-world problems. |

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