Name _____ Class _____ Date _____

Common Core Readiness Assessment 3 Report

Common Core State Standards	Test Items	Number Correct	Proficient? Yes or No	Mathematics II Lesson(s)
Number and Quantities				
N.Q.2 Define appropriate quantities for the purpose of descriptive modeling.	23			12–3
N.CN.1 Know there is a complex number i such that $i^2 = -1$, and every complex number has the form $a + bi$ with a and b real.	5			12–8
N.CN.2 Use the relation $i^2 = -1$ and the commutative, associative, and distributive properties to add, subtract, and multiply complex numbers.	6			12–8
N.CN.7 Solve quadratic equations with real coefficients that have complex solutions.	35			12–8
Algebra				
A.SSE.3 Choose and produce an equivalent form of an expression to reveal and explain properties of the quantity represented by the expression.	9, 10			12–5, 12–6
A.CED.1 Create equations and inequalities in one variable and use them to solve problems.	19			12–4, 12–5, 12–6, 12–7
A.CED.4 Rearrange formulas to highlight a quantity of interest, using the same reasoning as in solving equations.	8, 13			12–4, LL12–4
A.REI.4 Solve quadratic equations in one variable.	11, 12, 14, 16, 18, 20, 21, 22, 32			12–4, 12–5, 12–6, 12–7, 12–8
A.REI.7 Solve a simple system consisting of a linear equation and a quadratic equation in two variables algebraically and graphically.	24, 28			12–10
Functions				
F.IF.4 For a function that models a relationship between two quantities, interpret key features of graphs and tables in terms of the quantities, and sketch graphs showing key features given a verbal description of the relationship.	3, 15, 20, 27, 31, 33, 34			12–1, 12–2, 12–3
F.IF.5 Relate the domain of a function to its graph and, where applicable, to the quantitative relationship it describes.	4, 29			12–1, 12–3
F.IF.6 Calculate and interpret the average rate of change of a function over a specified interval. Estimate the rate of change from a graph.	36			AL12–2

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F.IF.7.a Graph linear and quadratic functions and show intercepts, maxima, and minima.	2			12–11
F.IF.8.a Use the process of factoring and completing the square in a quadratic function to show zeros, extreme values, and symmetry of the graph, and interpret these in terms of a context.	7			12–6
F.BF.1 Write a function that describes a relationship between two quantities.	1, 30			12–2, 12–9
F.BF.3 Identify the effect on the graph of replacing $f(x)$ by $f(x) + k$, $k f(x)$, $f(kx)$, and $f(x + k)$ for specific values of k; find the value of k given the graphs. Experiment with cases and illustrate an explanation of the effects on the graph using technology.	17			12–1, TL12–1, 12–2
Statistics and Probability				
S.ID.6.a Fit a function to the data; use functions fitted to data to solve problems in the context of the data.	37			12–9
S.CP.1 Describe events as subsets of a sample space using characteristics of the outcomes, or as unions, intersections, or complements of other events.	38			13–1, 13–4
S.CP.3 Understand the conditional probability of A given B as $P(A \text{ and } B)/P(B)$, and interpret independence of A and B as saying that the conditional probability of A given B is the same as the probability of A, and the conditional probability of B given A is the same as the probability of B.	25			13–6
S.CP.7 Apply the Addition Rule, $P(A \text{ or } B) = P(A) + P(B) - P(A \text{ and } B)$, and interpret the answer in terms of the model.	26			13–4