	Common Core State Standards	for Mathematics
	Domain: Reasoning with Equation	ns and Inequalities
	Reasoning to Solve Equation	ns (A-REI.1-2)
High School		
Score 4.0	In addition to Score 3.0, in-depth inferences and applications that go beyond instruction to the standard. The student will: • give examples showing how extraneous solutions may arise (A-REI.2) • solve complex rational and radical equations in one variable (A-REI.2)	Example Activities
	3.5 In addition to score 3.0 performance, in-depth inferences and applications with partial success.	
Score 3.0	 The student will: solve simple rational and radical equations in one variable and identifies extraneous solutions (A-REI.2) The student exhibits no major errors or omissions. 	Solve $x = \sqrt{x+7} + 5$ $x = \sqrt{x+7} + 5$ $x - 5 = \sqrt{x+7}$ $x^2 - 10x + 25 = x + 7$ $x^2 - 11x + 18 = 0$ (x - 9)(x - 2) = 0 x - 9 = 0 $x - 2 = 0x = 9$ $x = 2Check both solutions to make sure they are not extraneous.One solution, 9, checks and the other solution. 2, does not check.Therefore, the solution to the equation is x = \sqrt{x+7} + 5 is 9.$
Score 2.0	 2.5 No major errors or omissions regarding 2.0 content and partial knowledge of the 3.0 content There are no major errors or omissions regarding the simpler details and processes as the student will: recognize or recall specific vocabulary, such as: extraneous solutions perform basic processes, such as: explain each step in solving a simple linear equation (A-REI.1) However, the student exhibits major errors or omissions regarding the more complex ideas and processes. 1.5 Partial knowledge of the 2.0 content but major errors or omissions regarding the 3.0 content 	Linear Equation Proofing – Students will be given five linear equations with the correct solution worked out for them step by step. The students will be required to write a justification as to how or why each step of the solution was performed.
Score 1.0	With help, a partial understanding of some of the simpler details and processes and some of the	
Score 0.0	with help, a partial understanding of some of the simpler details and processes and some of the more complex ideas and processes. 0.5 With help, a partial understanding of the 2.0 content but not the 3.0 content Even with help, no understanding or skill demonstrated.	