

The Algebra Problem of the Week Scoring Rubric for Students

For each category, find the level that *best describes* your work.

	Novice	Apprentice	Practitioner	Expert
Problem Solving				
Interpretation	I understand little of the math involved in the problem.	I understand some of the math concepts in the problem, but not all of them. I didn't solve all parts of the main problem.	I understand all of the math concepts in the problem. I attempted to solve all parts of the main problem.	I understand the Extra and solved it correctly. I am at least a Practitioner in Strategy.
Strategy	I didn't know how to set up the problem. I had no ideas that would lead me to the correct solution.	I picked an incorrect strategy. My strategy relied on luck to get the right answer. I used guess and check exclusively, with no algebraic techniques.	I used a sound strategy and solved the problem with skill, not luck. I used algebraic techniques, including variables, expressions, and equations.	I used two separate strategies. I used an unusual or sophisticated strategy.
Accuracy	My work contains many mistakes.	My work is mostly accurate, with a few errors, such as calculation mistakes or using incorrect units.	My work is accurate and contains no arithmetic mistakes. I used the correct units.	[not possible for most problems]
Communication				
Completeness	I didn't write much, if anything, about how I found my answer.	I didn't define my variables. I didn't explain where my expressions or equations came from. I showed my work, but didn't explain it. I explained what I did without showing any of the actual work.	I defined my variables. I explained all of the steps taken to solve the problem. I stated any equations and formulas used and explained where most of those equations came from.	I added useful extensions and further explanation of some of the ideas involved.
Clarity	My explanation is very difficult to read and follow.	My explanation isn't entirely unclear, but another student wouldn't be able to follow it easily. My explanation is long and written entirely in one paragraph. My explanation has many spelling, grammar, and typing errors.	I explained all of the steps in such a way that another student would understand. I made an effort to check my formatting, grammar, spelling, and typing, though there may still be a few small mistakes.	I formatted things exceptionally clearly. My answer is very readable and it looks good!
Reflection (see list)	I did nothing reflective. The items in the columns to the right are considered reflective. They could be in the solution or the comment left after viewing the Math Forum's answer.	I did one reflective thing. I checked my answer is some way (in addition to viewing the answer provided by the Math Forum). I reflected on the reasonableness of my answer. I summarized the process I used.	I did two reflective things. I connected the problem to prior problems or experiences. I explained where I'm stuck.	I did three or more reflective things <i>or</i> did an exceptional job with two of them. I commented on and explained the ease or difficulty of the problem. I revised and improved my work.