

Problem Solving Rubric

	1 Novice	2 Apprentice	3 Practitioner	4 Expert
Strategy	I do not know how to set up the problem, or My work does not show my strategy, or My strategy didn't work.	I did not apply my strategy to the whole problem. I did not check my work.	I picked an efficient strategy and used it throughout the whole problem. I solved the problem through skill, not luck.	I used at least two different strategies to solve and check my work. At least one of my strategies is efficient. I solved the problem through skill, not luck.
Explanation	I did not explain my answer. My explanation is difficult to read and/or follow.	I explained my answer in one of the three ways: pictures, words and numbers. I explained my answer, but it's not very clear and/or readable.	I explained my answer in two of the three ways: pictures, words and numbers. I explained most of my steps. I used accurate mathematical vocabulary. I labeled my answer appropriately.	I explained my answer in all three ways: pictures, words and numbers. My answer is very readable and my steps are easy to understand. I used accurate mathematical vocabulary. I labeled my answer appropriately.
Reflection	There is no reflection.	My reflection lacks detail. My reflection is not connected to anything else.	My reflection is detailed and connected to other problems I've solved or to what I already know. I explained why I made the problem solving decisions I made.	My reflection is very detailed and connects the problem to other problems I've solved as well as to what I already know. I explained why I made the problem solving choices I made and provided evidence of how I did it.

List of Reflections

- ◆ I show/explain how I checked my own answer using another method.
- ◆ I've explained why my answer is reasonable.
- ◆ I've summarized my process.
- ◆ I've connected the problem to another problem or experience.
- ◆ I've explained where I'm stuck.
- ◆ I've suggested a hint I would give to another problem solver.
- ◆ I've explained why I think the problem is easy or difficult.
- ◆ I've revised and improved my work.