Mathematics Problem Solving Scoring Guide: Plain Language Student Version

(Unofficial: to be used as a support for students as they learn to use the official scoring guide)

Process Dimensions	**6/5	4	3	2/1*
Making Sense of the Task Understand the ideas and change them into a math task WHAT?	 The problem is changed into thoroughly developed ideas that work. The ideas are connected to other math ideas. 	The problem is changed into a math task with ideas that can work.	 Parts of the problem are changed into a math task with ideas that can work. OR Only parts of the problem are understood. 	 Only a small portion of the problem is understood. OR No understanding is shown.
Representing and Solving the Task Choose the strategy that works best for this problem. HOW?	 A thoroughly developed plan is used that contains pictures, charts, words, graphs and/or numbers. A thoroughly developed plan may contain more than one step. 	A plan using pictures, charts, words, graphs and/or numbers is used to solve the problem.	 The plan could solve some parts of the problem. OR The plan has a few missing parts. 	 The plan has many missing parts. OR The plan cannot work. OR No work is shown.
Communicating Reasoning Use the language of math (words, equations, graphs, charts) to make your ideas clear to others. WHY?	 The steps to complete the work are very clear. An explanation connecting each part is given. 	 The path through the work can be followed to a clearly identified solution. AND Some attempt is made to explain why one step followed another. 	 The path is not clear. OR The path leaves out important parts of the work. 	 The steps to complete the work are just started. OR No steps are shown.
Accuracy The answer is IS IT RIGHT?	 The solution is correct and may be extended. The solution is correct and the problem is solved another way. 	The answer given is correct and matches the work shown.	 The answer given may have a small error. Otherwise the main parts of the work are good. 	 The answer given is not correct or not finished. OR The answer given doesn't match the work.
Reflecting and Evaluating State and check your answer, and explain why it makes sense. CHECK?	 A different way is used to solve the problem. Different methods used are compared to each other. 	 The answer is written in a complete sentence and answers the question that was asked. AND A second look has been taken to completely check the work and shows why the answer makes sense. 	The answer is not written in a complete sentence or does not answer the question that was asked. OR Some, but not all of the work is checked.	The check doesn't work. OR The check is barely started. OR The check is not there at all.

^{**6} for a given dimension would have most of the list; 5 would have some of the list.

^{*2} for a given dimension would be inadequate in some of the list; while a 1 would be inadequate in most of the list.