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 mathematics WHAT? | - The problem is changed into thoroughly developed ideas that work. <br> - 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 with ideas that can work. <br> OR <br> - Only parts of the problem are understood. | - Only a small portion of the problem is understood. <br> OR <br> - No understanding is shown. |
| Representing and Solving the Task Choose the plan that works best for this problem. Use pictures, charts, words, graphs and/or numbers. HOW? | - A thoroughly developed plan is used. <br> - The plan uses advanced math. <br> - The plan is connected to other math ideas. | - The plan is complete and works. | - The plan could solve some parts of the problem. <br> OR <br> - The plan has a few missing parts. <br> High School Essential Skills ONLY: <br> - The plan does not use High School level math. | - The plan has many missing parts. <br> OR <br> - The plan cannot work. <br> OR <br> - No work is shown. |
| Communicating Reasoning Use the language of math (words, equations, graphs, charts) to make your ideas clear to others. <br> WHY? | - The path through the work is very clear. <br> - An explanation connecting each of the parts is given using precise mathematical language. <br> - All parts are labeled and identified. | - The path through the work is clear. <br> AND <br> - The work leads to a clearly identified answer. <br> - Math words and symbols are used. | - The path is not clear or the math words and symbols do not make sense. <br> OR <br> - The path leaves out important parts of the work. <br> OR <br> - The answer is not identified. | - The path to complete the work is just started. <br> OR <br> - The parts do not connect to each other. <br> OR <br> - No steps are shown. |
| Accuracy <br> The answer is... <br> IS IT RIGHT? | - The answer is correct. <br> - The outcome extends beyond the question asked. <br> OR <br> - The outcome connects to a related math idea or question. | - The answer given is correct. <br> The answer matches the work. <br> The solution answers the question asked. | - The correct answer is given but the work may have a small error. <br> - The answer is wrong due to a small error. <br> OR <br> - The work leading to an answer is correct but is not finished. | - The answer given is not correct. <br> OR <br> - The answer given does not match the work. <br> OR <br> - No answer is given. |
| Reflecting and Evaluating <br> State and check your answer, and explain why it makes sense. <br> CHECK? | - The problem is solved a second time using a different method. <br> - Different methods used are compared to each other. <br> - Evidence is provided that explores other possible answers and interpretations. | - The answer is written in a complete sentence and answers the question that was asked. <br> AND <br> - All of the work has been double-checked to show why the answer makes sense. | - The answer is not written in a complete sentence or does not answer the question that was asked. <br> OR <br> - Some, but not all of the work is checked. | - The check does not work. OR <br> - The check is barely started. OR <br> - The check is not there at all. |

[^0]
[^0]:    **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.

