

Problem of the Month Reflection

Directions: You are to reflect upon the last level that you successfully completed. Use these prompts to guide you as you write your Problem of the Month reflection. Be sure to respond to each section thoroughly. You may write, type, or record your response. (Don't forget to attach your work pages!)

There is no length requirement for this reflection--- The length depends on how concise and thorough you are in your explanation.

➤ **Problem Statement**

In your own words, state the general overall problem clearly enough that someone unfamiliar with the problem could pick up your paper and understand what you are asked to do.

➤ **Process**

Describe in detail how you attempted to solve this problem. You may want to consider some of the following questions. You should also include things that didn't work. How did you get started? What approaches did you try? Where did you get stuck? Did you talk to anyone about the problem? Did talking to someone help or hinder you? What drawing, chart, graph, or model did you use?

➤ **Solution**

State your solutions as clearly as you can. Include any charts, graphs, and lists and so on that you used to help you. If you were able to generalize the solution, include your results. Defend why you believe your solution is correct or the best possible answer. Your explanations should be written in a way that will be convincing to someone else.

➤ **Learning**

Reflect on the problem. What did you learn? What mathematics did you use? Can you make any generalizations about the math (ex: "this will always happen because...") or connections to other topics?

Problem of the Month Rubric

5: Accomplishes the Task with Distinction (100%)

The response completely explains the process to solve the level and goes beyond the description of "4: Accomplishes the Task". A distinguished performance is exciting – a gem. It excels and merits nomination for distinction by meeting the standards for a "4" and demonstrating special insights or powerful generalizations. This student could without a doubt teach this level to others.

4: Accomplishes the Task (95%)

The response clearly explains the student's work on the level and how they solved the task. The student's strategy and execution are correct, and the explanation would be easy enough for another reader to understand. There are no mathematical errors. All four required sections are included.

3: Developing (85%)

The response explains the student's work on the level and how they solved the task. The student's strategy and execution are correct, and would be understandable to the teacher or a classmate. Mathematical errors, if any, are minor. All four required sections are included.

2: Needs Improvement (70%)

The response attempts to explain the student's work on the level, but is not always clear. The student's strategy and execution are partially correct. There are some mathematical errors. Less than four required sections are included.

1: Emerging (50%)

The response does not explain the student's work on the level. The student's strategy and execution are incorrect correct. There are major mathematical errors. Less than three required sections are included. Nonetheless, it is evident that the student tried to tackle the task and put some math knowledge and tools to work.

0: No Response or Off Task (30%)

There is no evidence that the student attempted to progress through the levels, or explain their work. Less than two required sections are included.

***Only the Problem of the Month turned in without the reflection results in a 15%*