

# Assessment

## Mathematics Problem Solving Tips

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

**You may use manipulatives or a calculator to work on your problem.**

To receive the highest score in each of the five areas, you will want to be certain your work SHOWS each of these parts of a successful solution.

### (1) Making Sense of the Problem - “what”

- I turned the word problem into numbers and/or symbols.
- The mathematics I used fits the problem.

### (2) Representing and Solving the problem - “how”

- My mathematical problem solving skills/strategies fit the problem.
- I showed all my work (diagrams, pictures, models, numbers and/or symbols).

### (3) Communicating and Reasoning - “connecting path”

- The path leading to my complete solution has a no gaps for the reader to fill in.
- Labels are appropriate and accurate (e.g., square units vs units).

### (4) Accuracy - “correctness”

- My answer matches what the problem was asking.
- My final answer is complete and justifiable.
- I extended my work by asking new questions, leading to new problems.

### (5) Reflecting and Evaluating - “defense”

- I stated the solution in the context of the problem (correct units).
- I showed that my interpretation of the problem, concepts, strategies, and calculations were reasonable and accurate.
- If possible, I worked the entire problem a second way.

**RECAP:** *Show your answer and all of your work so everything is clear to the readers.*