

# Assessing Performance in Problem Solving

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Student \_\_\_\_\_ Date \_\_\_\_\_

Check each statement below that accurately describes the student's work.

## — Understand —

- \_\_\_\_\_ Reads the problem carefully
- \_\_\_\_\_ Studies any tables or graphs
- \_\_\_\_\_ Can restate the problem in his or her own words
- \_\_\_\_\_ Can identify given information
- \_\_\_\_\_ Can identify the question to be answered

## — Plan —

- \_\_\_\_\_ Chooses an appropriate strategy for solving the problem
- \_\_\_\_\_ Estimates what the answer should be

## — Solve —

- \_\_\_\_\_ Works systematically
- \_\_\_\_\_ Shows solution in an organized fashion
- \_\_\_\_\_ Computes correctly
- \_\_\_\_\_ States the answer in a complete sentence, giving correct units

## — Look Back —

- \_\_\_\_\_ Checks to see that the answer is reasonable
- \_\_\_\_\_ Tries other ways to solve the problem

Use the following criteria to assess the student's performance:

- Level 4** (11–13 items checked) The student demonstrates an in-depth understanding of the problem and communicates that understanding in a clear and concise manner. He or she is able to relate the problem to other work previously accomplished.
- Level 3** (8–10 items checked) The student understands the problem and shows a correct solution in a clear and organized fashion.
- Level 2** (4–7 items checked) The student displays an adequate understanding of major concepts, but may commit errors in some of the specific components.
- Level 1** (0–3 items checked) The student has partial or no apparent understanding of the problem. He or she does not complete the necessary work or uses an inappropriate strategy. No answer, an inappropriate response, or an incorrect answer with no work is shown.