

Math CWO Checklist/Rubric

Program: _____ Name: _____ Date: _____

Scoring:

- First, evaluate each of the criteria in the following way:
2 = fully correct, 1 = partial; 0 = absent
NA = Not applicable (remove from total possible for that indicator)
- Then, **average points for all criteria within each indicator:** Each indicator is worth a total of just 2 points, so average the score (0, 1, or 2) for all of the criteria used under each indicator. The average can be in decimal form (e.g., 1, 2 and 2 would yield $5 \text{ of } 6 \times 2 = 1.67$ for that indicator).
- Add up the average score for the four indicators – to provide a score for the student – out of a total possible of 8 points.

| Indicators and Criteria | | | | |
|---|---|---|-----------|-----------|
| 1) Select or devise a strategy for solving | | | | /2 |
| 1a) Identify the concept(s) being addressed in the problem. | 2 | 1 | 0 | NA |
| 1b) Select a formula or devise a procedure that applies to that type of problem. | 2 | 1 | 0 | NA |
| 1c) Set up the formula or procedure appropriately for the purpose of solving the problem. | 2 | 1 | 0 | NA |
| 2) Extract relevant data | | | | /2 |
| 2a) Identify numerical items from the problem that are necessary for solving the problem. | 2 | 1 | 0 | NA |
| 2b) Identify and obtain any other information needed to solve the problem (if applicable). | 2 | 1 | 0 | NA |
| 2c) Insert the data into the strategy/equation in a way that is appropriate to the problem. | 2 | 1 | 0 | NA |
| 3) Apply the strategy | | | | /2 |
| 3a) Convert all data into the appropriate units of measure for the formula or procedure chosen. | 2 | 1 | 0 | NA |
| 3b) Perform the proper calculations and in the correct order, using appropriate technology when necessary (all work must be shown). | 2 | 1 | 0 | NA |
| 3c) Put answer in correct form and with the correct units. | 2 | 1 | 0 | NA |
| 4) Communicate the result | | | | /2 |
| 4a) Show what the answer means to the original problem. | 2 | 1 | 0 | NA |
| 4b) Justify that the answer is reasonable for the problem presented. | 2 | 1 | 0 | NA |
| 4c) Identify the audience for presenting the solution to. | 2 | 1 | 0 | NA |
| 4d) Present and explain solution in wording appropriate to the intended audience. | 2 | 1 | 0 | NA |
| Totals for the Math CWO Assessment | | | /8 | |