

# Solution Guide Problem Solving

Name of Problem: \_\_\_\_\_

| Criteria                                                                                    | Descriptors                                                                                                                                                                                                                                                                                                                                     | How does the work meet the criteria? |
|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| Demonstrates an understanding of the problem                                                | <input type="checkbox"/> Identifies the question<br><input type="checkbox"/> Identifies the knowns<br><input type="checkbox"/> Selects the relevant information<br><input type="checkbox"/>                                                                                                                                                     |                                      |
| Develops an appropriate problem-solving plan                                                | <input type="checkbox"/> Selects a problem-solving strategy such as draw a picture, make a table, act out or use manipulatives, work backwards, look for a pattern, guess and check, and/or work a simpler problem<br><input type="checkbox"/> Develops a plan for solving the problem<br><input type="checkbox"/>                              |                                      |
| Carries out the plan using appropriate mathematical language, properties, and relationships | <input type="checkbox"/> Communicates how the strategy is used to solve the problem<br><input type="checkbox"/> States mathematical relationships correctly<br><input type="checkbox"/> Uses mathematical properties appropriately<br><input type="checkbox"/> Uses mathematical language and symbols appropriately<br><input type="checkbox"/> |                                      |
| Review the results                                                                          | <input type="checkbox"/> Evaluates the reasonableness of the solution<br><input type="checkbox"/> Answers the question in the problem<br><input type="checkbox"/>                                                                                                                                                                               |                                      |