

Name: \_\_\_\_\_

Date: \_\_\_\_\_

**Chapter 1 Problem Wrap-Up Rubric****BLM 1–11**

Categories	Level 1	Level 2	Level 3	Level 4
<b>Knowledge and Understanding</b> <ul style="list-style-type: none"> <li>Solves a linear-quadratic system algebraically (by factoring or the quadratic formula)</li> <li>Interprets units represented by variables</li> </ul>	<ul style="list-style-type: none"> <li>Demonstrates limited understanding of how to solve a linear-quadratic system algebraically</li> <li>Demonstrates limited understanding of units represented by variables</li> </ul>	<ul style="list-style-type: none"> <li>Demonstrates some understanding of how to solve a linear-quadratic system algebraically</li> <li>Demonstrates some understanding of units represented by variables</li> </ul>	<ul style="list-style-type: none"> <li>Demonstrates considerable understanding of how to solve a linear-quadratic system algebraically</li> <li>Demonstrates considerable understanding of units represented by variables</li> </ul>	<ul style="list-style-type: none"> <li>Demonstrates thorough understanding of how to solve a linear-quadratic system algebraically</li> <li>Demonstrates thorough understanding of units represented by variables</li> </ul>
<b>Thinking</b> <ul style="list-style-type: none"> <li>Prepares a plan to solve the problem</li> <li>Carries out the plan</li> </ul>	<ul style="list-style-type: none"> <li>Needs extensive assistance to organize a plan and needs some steps to follow</li> </ul>	<ul style="list-style-type: none"> <li>Needs some assistance to organize and implement an effective strategy</li> </ul>	<ul style="list-style-type: none"> <li>Needs minimal assistance to organize and implement an effective strategy</li> </ul>	<ul style="list-style-type: none"> <li>Needs no assistance to organize and implement an effective strategy</li> </ul>
<b>Communication</b> <ul style="list-style-type: none"> <li>Clearly explains and fully justifies solution</li> <li>Correctly uses mathematical language</li> <li>Conveys all items required in the report</li> </ul>	<ul style="list-style-type: none"> <li>Does not clearly explain or justify solution</li> <li>Uses limited mathematical form</li> <li>Adequately conveys one or two items required in the report</li> </ul>	<ul style="list-style-type: none"> <li>Explains or justifies solution somewhat</li> <li>Uses minimal mathematical form</li> <li>Correctly conveys several items required in the report</li> </ul>	<ul style="list-style-type: none"> <li>Explains or justifies solution fully</li> <li>Uses good mathematical form</li> <li>Conveys most items required in the report well</li> </ul>	<ul style="list-style-type: none"> <li>Explains, justifies, and shows insight into the complexities of solution</li> <li>Uses excellent mathematical form</li> <li>Clearly and effectively conveys all items required in the report and includes additional accurate information</li> </ul>
<b>Application</b> <ul style="list-style-type: none"> <li>Connects mathematical solution with real-life situation</li> <li>Verifies solution using an alternate algebraic method and a graphical method</li> </ul>	<ul style="list-style-type: none"> <li>Has limited understanding of the connection between the solution and the real-life situation</li> <li>Has limited understanding of other methods that can be used to verify the solution</li> </ul>	<ul style="list-style-type: none"> <li>Has some understanding of the connection between the solution and the real-life situation</li> <li>Somewhat verifies the solution using one other method</li> </ul>	<ul style="list-style-type: none"> <li>Has considerable understanding of the connection between the solution and the real-life situation</li> <li>Effectively verifies the solution using two other methods</li> </ul>	<ul style="list-style-type: none"> <li>Has thorough understanding of the connection between the solution and the real-life situation</li> <li>Thoroughly verifies the solution using two other methods</li> </ul>

