

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

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

**BLM 6-6**

## Section 6.2 Achievement Check Rubric

| Category                            | Level 1   | Level 2  | Level 3  | Level 4   |
|-------------------------------------|---|--|--|---|
| <b>Knowledge/<br/>Understanding</b> | <ul style="list-style-type: none"> <li>demonstrates limited knowledge of solving a quadratic equation by factoring</li> </ul>   | <ul style="list-style-type: none"> <li>demonstrates some knowledge of solving a quadratic equation by factoring</li> </ul>   | <ul style="list-style-type: none"> <li>demonstrates considerable knowledge of solving a quadratic equation by factoring</li> </ul>   | <ul style="list-style-type: none"> <li>demonstrates thorough knowledge of solving a quadratic equation by factoring</li> </ul>  |
| <b>Thinking</b>                     | <ul style="list-style-type: none"> <li>uses planning and critical thinking processes with limited effectiveness (e.g., little evidence of reasoning in analysing the context and applying the ideas to create a new problem)</li> </ul> | <ul style="list-style-type: none"> <li>uses planning and critical thinking processes with some effectiveness (e.g., some evidence of reasoning in analysing the context and applying the ideas to create a new problem)</li> </ul> | <ul style="list-style-type: none"> <li>uses planning and critical thinking processes with considerable effectiveness (e.g., makes connections between the concepts of volume and algebra; applies the ideas to create another problem)</li> </ul>                  | <ul style="list-style-type: none"> <li>uses planning and critical thinking processes very effectively (e.g., makes connections between the concepts of volume and algebra; applies the ideas in creating an interesting new problem)</li> </ul>                                 |
| <b>Communication</b>                | <ul style="list-style-type: none"> <li>expresses and organizes mathematical thinking with limited effectiveness</li> <li>uses mathematical vocabulary and notation with limited effectiveness</li> </ul>                                | <ul style="list-style-type: none"> <li>expresses and organizes mathematical thinking with some effectiveness</li> <li>uses mathematical vocabulary and notation with some effectiveness</li> </ul>                                 | <ul style="list-style-type: none"> <li>expresses and organizes mathematical thinking with considerable effectiveness</li> <li>uses mathematical vocabulary and notation with considerable effectiveness (e.g., uses good form for presenting solutions)</li> </ul> | <ul style="list-style-type: none"> <li>expresses and organizes mathematical thinking with a high degree of effectiveness</li> <li>uses mathematical vocabulary and notation with a high degree of effectiveness (e.g., uses very good form for presenting solutions)</li> </ul> |
| <b>Application</b>                  | <ul style="list-style-type: none"> <li>applies knowledge by manipulating and factoring quadratic relations and equations with limited effectiveness</li> </ul>  | <ul style="list-style-type: none"> <li>applies knowledge by manipulating and factoring quadratic relations and equations with some effectiveness</li> </ul>  | <ul style="list-style-type: none"> <li>applies knowledge by manipulating and factoring quadratic relations and equations with considerable effectiveness</li> </ul>  | <ul style="list-style-type: none"> <li>applies knowledge by manipulating and factoring quadratic relations and equations with a high degree of effectiveness</li> </ul>   |