

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

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

**BLM 8-17**

## Task: Lighting the Park Rubric

Category	Level 1	Level 2	Level 3	Level 4
<b>Knowledge/Understanding</b>	<ul style="list-style-type: none"> <li>demonstrates limited knowledge of the properties of the trigonometric ratios and trigonometry of acute triangles</li> </ul>	<ul style="list-style-type: none"> <li>demonstrates some knowledge of the properties of the trigonometric ratios and trigonometry of acute triangles</li> </ul>	<ul style="list-style-type: none"> <li>demonstrates considerable knowledge of the properties of trigonometric ratios and the trigonometry of acute triangles</li> </ul>	<ul style="list-style-type: none"> <li>demonstrates a thorough knowledge of the properties of trigonometric ratios and the trigonometry of acute triangles</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 recognition of how to use trigonometric relationships to solve the problem)</li> </ul>	<ul style="list-style-type: none"> <li>uses planning and critical thinking processes with some effectiveness (e.g., some evidence of recognition of how to use trigonometric relationships to solve the problem)</li> </ul>	<ul style="list-style-type: none"> <li>uses planning and critical thinking processes with considerable effectiveness (e.g., considerable evidence of recognition of how to set up the problem and use trigonometric relationships to solve it; considerable evidence of well organized and constructed mathematical arguments)</li> </ul>	<ul style="list-style-type: none"> <li>uses planning and critical thinking processes very effectively (e.g., detailed evidence of recognition of how to set up the problem and use trigonometric relationships to solve it; detailed evidence of well organized and constructed mathematical arguments)</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 of the properties of the trigonometric ratios and the trigonometry of acute triangles with limited effectiveness</li> </ul>	<ul style="list-style-type: none"> <li>applies knowledge of the properties of the trigonometric ratios and the trigonometry of acute triangles with some effectiveness</li> </ul>	<ul style="list-style-type: none"> <li>applies knowledge of the properties of the trigonometric ratios and the trigonometry of acute triangles with considerable effectiveness (e.g., applies the sine and cosine laws with considerable effectiveness)</li> </ul>	<ul style="list-style-type: none"> <li>applies knowledge of the properties of the trigonometric ratios and the trigonometry of acute triangles with a high degree of effectiveness (e.g., applies the sine and cosine laws with a high degree of effectiveness, including the extension of the sine law to an obtuse angle triangle)</li> </ul>