

Name: _____

Date: _____

BLM 8-17

Task: Lighting the Park Rubric

Category	Level 1	Level 2	Level 3	Level 4
Knowledge/ Understanding	<ul style="list-style-type: none"> demonstrates limited knowledge of the properties of the trigonometric ratios and trigonometry of acute triangles 	<ul style="list-style-type: none"> demonstrates some knowledge of the properties of the trigonometric ratios and trigonometry of acute triangles 	<ul style="list-style-type: none"> demonstrates considerable knowledge of the properties of trigonometric ratios and the trigonometry of acute triangles 	<ul style="list-style-type: none"> demonstrates a thorough knowledge of the properties of trigonometric ratios and the trigonometry of acute triangles
Thinking	<ul style="list-style-type: none"> 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) 	<ul style="list-style-type: none"> 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) 	<ul style="list-style-type: none"> 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) 	<ul style="list-style-type: none"> 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)
Communication	<ul style="list-style-type: none"> expresses and organizes mathematical thinking with limited effectiveness uses mathematical vocabulary and notation with limited effectiveness 	<ul style="list-style-type: none"> expresses and organizes mathematical thinking with some effectiveness uses mathematical vocabulary and notation with some effectiveness 	<ul style="list-style-type: none"> expresses and organizes mathematical thinking with considerable effectiveness uses mathematical vocabulary and notation with considerable effectiveness (e.g., uses good form for presenting solutions) 	<ul style="list-style-type: none"> expresses and organizes mathematical thinking with a high degree of effectiveness uses mathematical vocabulary and notation with a high degree of effectiveness (e.g., uses very good form for presenting solutions)
Application	<ul style="list-style-type: none"> applies knowledge of the properties of the trigonometric ratios and the trigonometry of acute triangles with limited effectiveness 	<ul style="list-style-type: none"> applies knowledge of the properties of the trigonometric ratios and the trigonometry of acute triangles with some effectiveness 	<ul style="list-style-type: none"> 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) 	<ul style="list-style-type: none"> 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)