

Name: _____

Date: _____

BLM 8.3.4

Achievement Check Rubric

Category	Level 1	Level 2	Level 3	Level 4
Knowledge/ Understanding	<ul style="list-style-type: none"> demonstrates limited knowledge of surface area and volume of rectangular prisms and cylinders 	<ul style="list-style-type: none"> demonstrates some knowledge of surface area and volume of rectangular prisms and cylinders 	<ul style="list-style-type: none"> demonstrates considerable knowledge of surface area and volume of rectangular prisms and cylinders 	<ul style="list-style-type: none"> demonstrates thorough knowledge of surface area and volume of rectangular prisms and cylinders
Thinking	<ul style="list-style-type: none"> uses planning and critical-thinking processes with limited effectiveness 	<ul style="list-style-type: none"> uses planning and critical-thinking processes with some effectiveness 	<ul style="list-style-type: none"> uses planning and critical-thinking processes with considerable effectiveness (e.g., finds the dimensions in an organized way) 	<ul style="list-style-type: none"> uses planning and critical-thinking processes with a high degree of effectiveness (e.g., finds dimensions in a well-organized way, alluding to alternate choices)
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., expresses reasoning for steps clearly) 	<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., expresses reasoning for detailed steps clearly)
Application	<ul style="list-style-type: none"> applies knowledge to this context with limited effectiveness 	<ul style="list-style-type: none"> applies knowledge to this context with some effectiveness (e.g., may only provide calculations for one shape) 	<ul style="list-style-type: none"> applies knowledge to this context with considerable effectiveness (e.g., applies formulas correctly and provides a plausible reason why one shape is better than the other) 	<ul style="list-style-type: none"> applies knowledge to this context with a high degree of effectiveness (e.g., applies formulas correctly and provides detailed reasons why one shape is preferable)