

Achievement Check Rubric

Category	Level 1	Level 2	Level 3	Level 4
Knowledge/ Understanding	<ul style="list-style-type: none"> demonstrates limited knowledge of how to maximize an area for a fixed perimeter 	<ul style="list-style-type: none"> demonstrates some knowledge of how to maximize an area for a fixed perimeter 	<ul style="list-style-type: none"> demonstrates considerable knowledge of how to maximize an area for a fixed perimeter 	<ul style="list-style-type: none"> demonstrates a thorough knowledge of how to maximize an area for a fixed perimeter
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 maximum area in an organized way, for example using a chart) 	<ul style="list-style-type: none"> uses planning and critical-thinking processes with a high degree of effectiveness (e.g., finds maximum area in a very organized way, for example using a detailed chart)
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 solutions, diagrams, charts, etc., in an organized manner) 	<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 solutions, diagrams, charts, etc., in a clear and detailed manner)
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 	<ul style="list-style-type: none"> applies knowledge to this context with considerable effectiveness (e.g., develops area values as rectangle lengths vary, and provides mathematical support) 	<ul style="list-style-type: none"> applies knowledge to this context with a high degree of effectiveness (e.g., develops area values as rectangle lengths vary, and provides detailed mathematical support)