

Name: _____

Date: _____

BLM 5-12

Chapter 5 Problem Wrap-Up Rubric

Category	Level 1	Level 2	Level 3	Level 4
Knowledge/ Understanding	<ul style="list-style-type: none"> demonstrates limited knowledge of simplifying and factoring expressions and working with area and volume 	<ul style="list-style-type: none"> demonstrates some knowledge of simplifying and factoring expressions and working with area and volume 	<ul style="list-style-type: none"> demonstrates considerable knowledge of simplifying and factoring expressions and working with area and volume 	<ul style="list-style-type: none"> demonstrates thorough knowledge of simplifying and factoring expressions and working with area and volume
Thinking	<ul style="list-style-type: none"> uses planning and critical thinking processes with limited effectiveness provides an illogical solution to part d) 	<ul style="list-style-type: none"> uses planning and critical thinking processes with some effectiveness provides a weak solution to part d) 	<ul style="list-style-type: none"> uses planning and critical thinking processes with considerable effectiveness (e.g., has an organized plan to calculate surface area and volume) provides a reasonable solution to part d) 	<ul style="list-style-type: none"> uses planning and critical thinking processes with a high degree of effectiveness (e.g., has a detailed, organized plan to calculate surface area and volume) provides a well thought out solution to part d)
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 using good mathematical form) 	<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 using excellent mathematical form, detailing all steps with justification)
Application	<ul style="list-style-type: none"> applies knowledge of factoring and algebraic simplification to this context with limited effectiveness 	<ul style="list-style-type: none"> applies knowledge of factoring and algebraic simplification to this context with some effectiveness 	<ul style="list-style-type: none"> applies knowledge of factoring and algebraic simplification to this context with considerable effectiveness (e.g., distinguishes between area and volume effectively) 	<ul style="list-style-type: none"> applies knowledge of factoring and algebraic simplification to this context with a high degree of effectiveness (e.g., analyses the situation with volume growth effectively in multiple ways)