

Score	Problem Solving	Reasoning and Proof	Representation
1	No strategy chose no engagement with task	Incorrect reasoning no basis for arguments	No mathematical representations
2	Strategy is partially correct	Some correct reasoning	A mathematical representation is attempted
3	Correct strategy chosen	Correct reasoning present	Includes accurate mathematical representations
4	Strategies analyzed	Deductive arguments used	Abstract representations created

Score	1	2	3	4	Comments
Part 1 Complexity of Object	Object chosen is a simple prism		Object chosen is composed of two or more different types of prisms.	Object chosen requires multiple calculations to determine lengths that cannot be measured.	
Part 2 Dimensions	Measurements are not realistic	Measurements and/or conversions are incomplete	Measurements and conversions are complete with few errors	Measurements and conversions are complete with no errors	
Part 3 Surface Area	Calculations and conversions are incomplete	Calculations and conversions are complete but contain numerous errors and work is disorganized	Calculations and conversions are complete with few errors. Organization is evident.	Calculations and conversions are complete with no errors. Work is organized and detailed.	
Part 4 Volume	Calculations and conversions are incomplete	Calculations and conversions are complete but contain numerous errors and work is disorganized	Calculations and conversions are complete with few errors. Organization is evident.	Calculations and conversions are complete with no errors. Work is organized and detailed.	
Part 5 3-D Representation	No model is provided.	Model is 3-D, but is not to scale. Lack of attention to detail.	Model is 3-D and is built to scale. Very little detail is added.	Model is 3-D and built to scale. Additional details have been added.	