

Chapter 7 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 similarity, scale drawings, and measurement skills related to distances and angles 	<ul style="list-style-type: none"> demonstrates some knowledge of similarity, scale drawings, and measurement skills related to distances and angles 	<ul style="list-style-type: none"> demonstrates considerable knowledge of similarity, scale drawings, and measurement skills related to distances and angles 	<ul style="list-style-type: none"> demonstrates thorough knowledge of similarity, scale drawings, and measurement skills related to distances and angles
Thinking	<ul style="list-style-type: none"> uses planning and critical thinking processes with limited effectiveness solution omits most of the steps required 	<ul style="list-style-type: none"> uses planning and critical thinking processes with some effectiveness solution provides a few of the steps required 	<ul style="list-style-type: none"> uses planning and critical thinking processes with considerable effectiveness solution provides most of the steps required 	<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 distances and angles) provides a well thought out solution to the problem, including discussion of potential sources of error in the measurements
Communication	<ul style="list-style-type: none"> expresses and organizes mathematical thinking with limited effectiveness uses mathematical vocabulary and notation with limited effectiveness diagram contains errors or does not exist 	<ul style="list-style-type: none"> expresses and organizes mathematical thinking with some effectiveness uses mathematical vocabulary and notation with some effectiveness diagram partially supports the narrative 	<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) diagram supports the narrative without contradiction 	<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) diagram enhances the narrative
Application	<ul style="list-style-type: none"> applies knowledge of similarity, measurement, and trigonometry to this context with limited effectiveness 	<ul style="list-style-type: none"> applies knowledge of similarity, measurement, and trigonometry to this context with some effectiveness 	<ul style="list-style-type: none"> applies knowledge of similarity, measurement, and trigonometry to this context with considerable effectiveness (e.g., overcomes challenge of measuring on a small diagram) 	<ul style="list-style-type: none"> applies knowledge of similarity, measurement, and trigonometry to this context with a high degree of effectiveness (e.g., creates strategies to measure effectively on a small diagram)