

Chapter 1 Practice Test Achievement Check Rubric

Categories	Level 1	Level 2	Level 3	Level 4
Knowledge and Understanding <ul style="list-style-type: none"> Creates a table of values in part a). Finds an equation for the area and its domain and range in part b). 	Demonstrates limited understanding of quadratic equations, making major errors.	Demonstrates some understanding of quadratic equations, making minor errors.	Demonstrates considerable understanding of quadratic equations, creates a table with some entries, and finds a correct equation, domain, and range.	Demonstrates thorough understanding of quadratic equations, creates a table with many entries, and finds a correct equation, domain, and range.
Thinking <ul style="list-style-type: none"> Prepares a plan to solve the problem. Carries out the plan. 	Needs extensive assistance to begin organizing a plan and needs clearly laid out steps to follow.	Needs some assistance to begin organizing a plan and needs some steps to follow.	Needs minimal assistance to organize and implement an effective strategy.	Needs no assistance to organize and implement an effective strategy.
Communication <ul style="list-style-type: none"> Correct use of mathematical language. Clear explanations and full justifications. 	Maintains the correct units in some part of the solution. Does not clearly explain or justify solution.	Maintains the correct units throughout most of the solution. Explains and justifies solution somewhat.	Maintains the correct units throughout the solution. Explains and justifies solution fully.	Maintains the correct units throughout the solution. Explains, justifies, and shows insight into the complexities of the solution.
Application <ul style="list-style-type: none"> Determines the dimensions for maximum area, the vertex of the graph, and an equation in vertex form in parts c), d) and e). Verifies the equation using technology in part f). 	Interprets the information ineffectively, making many errors and is unable to verify the solution using technology without considerable assistance.	Interprets the information somewhat effectively, making few errors and is unable to verify the solution using technology without some assistance.	Interprets the information with considerable effectiveness, making no errors and verifies the solution using technology with little assistance.	Interprets the information with a high degree of effectiveness, making no errors and verifies the solution using technology without assistance.