Name: _____   Date: _____

Section 6.5 Achievement Check Rubric

Category	Level 1	Level 2	Level 3	Level 4
Knowledge and Understanding • calculates which star is brighter and by how much	• demonstrates limited understanding of solving a logarithmic equation, making major errors in the calculations	• demonstrates some understanding of solving a logarithmic equation, making some minor errors in the calculations	• demonstrates considerable understanding of solving a logarithmic equation, making no errors in the calculations	• demonstrates thorough understanding of solving a logarithmic equation, making no errors in the calculations and fully justifying the solution
Thinking • 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 • correctly uses mathematical language • clearly explains and fully justifies solution	• maintains the correct language in some of the solution • does not clearly explain or justify solution	• maintains the correct language throughout most of the solution • explains and justifies solution somewhat	• maintains the correct language throughout the solution • explains and justifies solution fully	• maintains the correct language throughout the solution • explains, justifies and shows insight into the complexities of the solution
Application • compares the answer to the previous question, 12, and explains the comparison	• interprets the information ineffectually, by incorrectly comparing the answers and not explaining the comparison	• interprets the information somewhat effectually, by correctly comparing the answers but not explaining the comparison	• interprets the information with considerable effectiveness, by correctly comparing the answers and explaining the comparison	• interprets the information with a high degree of effectiveness, by correctly comparing the answers and fully explaining the comparison