Name: _____       Date: _____

## Chapter 7 Problem Wrap-Up Rubric

| Categories | Level 1 | Level 2 | Level 3 | Level 4 |
|---|---|---|---|---|
| **Knowledge and Understanding**<br>• creates a scatter plot<br>• determines a curve of best fit | • demonstrates limited understanding of creating scatter plots and calculating an appropriate regression curve of best fit | • demonstrates some understanding of creating scatter plots and calculating an appropriate regression curve of best fit | • demonstrates considerable understanding of creating scatter plots and calculating an appropriate regression curve of best fit | • demonstrates thorough understanding of creating scatter plots and calculating an appropriate regression curve of best fit |
| **Thinking**<br>• prepares a plan to solve the problem<br>• 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**<br>• correctly uses mathematical language<br>• clearly explains and fully justifies solution | • maintains the correct language in some of the solution<br>• does not clearly explain or justify solution | • maintains the correct language throughout most of the solution<br>• explains and justifies solution somewhat | • maintains the correct language throughout the solution<br>• explains and justifies solution fully | • maintains the correct language throughout the solution<br>• explains, justifies and shows insight into the complexities of the solution |
| **Application**<br>• makes a prediction when a change of venue will be necessary<br>• discusses measures that could be taken to preserve the tradition | • interprets the information ineffectually, by making unsupported predictions and unreasonable plans to preserve the tradition | • interprets the information somewhat effectually, by making some predictions and some plans to preserve the tradition | • interprets the information with considerable effectiveness, by making supported predictions and reasonable plans to preserve the tradition | • interprets the information with a high degree of effectiveness, by making well supported predictions and reasonable plans to preserve the tradition justified mathematically |