

Teaching Project: Data Analysis and Optimization Using Graphing Calculators

PURPOSE: The purpose of this project is to show a parent some of the interesting things you are learning in this course and some of the things your calculator can be used for. You will need to write a lesson plan for teaching the adult and then follow the plan. The lesson plan should include specifically what you will teach about the calculator and about Parabolas. You will help and guide the adult in using the calculator; they will use the calculator to solve the problem. In this problem you will be the teacher and the adult is the student. The teacher in this project will be getting a grade for the project. Your grade will be determined by the lesson plan, parent work, and evaluation sheet. The evaluation sheet needs to be filled out in paragraph form with more than one sentence for each answer, and be signed by both the teacher and the student. I hope you find the project interesting, informative, and fun! Good luck with your students.

HAND IN: Lesson plan, parent's work, evaluation sheet

DUE: _____

Newnan High School wants to boost income from its athletic program. It has decided to sell a pass that will allow the holder to attend all athletic events at the school. The families in the community with students in the school were surveyed and asked the question, "What is the most you would pay for an all sports season ticket package?" The results of the survey are given in the table below.

Maximum Price (\$)	175	150	135	115	95	90	75	50
Number	150	60	80	120	85	45	80	145

What should the school charge in order to maximize earnings?