

| CRITERIA                     | UNSATISFACTORY 2/3<br>(Below Performance Standards)   | PROFICIENT 4/5<br>(Minimal Criteria)   | ADVANCED 6<br>(Demonstrates Exceptional Performance)   |
|------------------------------|---|--|--|
| <b>Choice of Band or DJ</b>  | <ul style="list-style-type: none"> <li>A table has been used to describe pricing, not a linear equation.</li> <li>Graphs have been created, but are inaccurate.</li> <li>Arguments are not based on graphs, but only personal hunches.</li> </ul>   | <ul style="list-style-type: none"> <li>Fill out Contact Information and Equation Worksheet.</li> <li>Each correct linear equation for total charge for two bands or DJ's has been listed with defined variables, along with their graphs.</li> <li>Graphs are accurate, labeled and easy to read.</li> <li>The intersection of the two lines has been used to decide which band or DJ should be used.</li> <li>All math work SHOWN.</li> <li>1 paragraph justification of choice using information retrieved from the graph.</li> </ul>  | <p>In addition to meeting the PROFICIENT criteria...</p> <ul style="list-style-type: none"> <li>Other factors have been included, such as popularity of the band or DJ, in determining their choice of band or DJ.</li> <li>Groups research local bands and DJ's and compare their costs to the given pieces of information for the choice of band and DJ.</li> </ul>  |
| <b>Choice of Caterer</b>     | <ul style="list-style-type: none"> <li>Attempts to write the linear equations from the information given, but are inaccurate</li> <li>Attempts to solve their system of equations using substitution and elimination, but has math errors</li> <li>Attempts to solve their systems of equations using either substitution or elimination but not both.</li> <li>Attempts to use their solution to determine the total cost of the catering service but has math errors, but doesn't use feasible values for how many students they think will attend.</li> <li>Makes choice based on personal hunches.</li> </ul>                           | <ul style="list-style-type: none"> <li>Fill out Contact Information and Equation Worksheet.</li> <li>Each correct linear equation has been written from the given information and variables have been defined.</li> <li>The system of equations have been solved correctly using either the substitution BOTH elimination methods</li> <li>All math work SHOWN.</li> <li>Information from the solution is correctly used to determine the total costs of the catering service based on how many students they think will attend</li> <li>1 paragraph justification of choice using information retrieved from substitution and elimination.</li> </ul>   | <p>In addition to meeting the PROFICIENT criteria ...</p> <ul style="list-style-type: none"> <li>Researches different payment options for the catering service.</li> <li>Uses that information with the system of equations they came up to see if the catering cost will be lowered.</li> </ul>   |
| <b>Cost of the Prom</b>      | <ul style="list-style-type: none"> <li>Attempts to write a linear equation using information from graph for choice of Band/DJ and catering fees, but is inaccurate</li> <li>Scatter plot is incorrectly graphed</li> <li>Linear equation of trend line is incorrect.</li> <li>Attempts to make a prediction of the number of students attending this year's prom, but is not based on the trend line or equation.</li> <li>Attempts to graph of systems of equations, but either graphs are inaccurate, or doesn't correctly use the graph in determining outcomes</li> </ul>   | <ul style="list-style-type: none"> <li>Correctly uses information from their graphs for choice of Band/DJ and catering fees to write a linear equation for the total cost of the prom.</li> <li>Uses a table for attendance from previous proms to make a scatter plot.</li> <li>Makes a trend line of the data and writes a linear equation from the data. Use the line or equation to predict the number of students who will attend this year's prom</li> <li>Correctly graphs a system of equations for the total cost of prom and uses their graph to determine outcomes such as possible way to either lower the ticket price or make a profit</li> </ul>  | <p>In addition to meeting the PROFICIENT criteria ...</p> <ul style="list-style-type: none"> <li>Considers other hidden costs or factors that may increase or decrease attendance at this year's prom, and therefore the total cost for the prom</li> <li>Looks at different variables for what might affect student attendance at the prom. Students will use this information to determine how this will affect the total cost of the prom and therefore the ticket price.</li> <li>Students will explore other ways that will either maximize the profit or minimize the ticket price.</li> </ul> |
| <b>Written / Oral Report</b> | <ul style="list-style-type: none"> <li>Report states which band or DJ the prom committee should choose, but doesn't refer to their graphs to explain their decision. Their graphs were not turned in.</li> <li>Report states the fixed cost and cost per student of the catering service, but doesn't explain how this was determined. The math showing this was not turned in.</li> <li>Report states their prediction of the number of students they think will attend this year's prom, but doesn't refer to their scatter plot and trend line in making their decision. Their scatter plot and trend line was not turned in.</li> </ul> | <ul style="list-style-type: none"> <li>Report states what band or DJ the prom committee should choose and refers to their graphs to accurately explain their decision. Their graphs will be turned in with their paper.</li> <li>Report explains the fixed cost of the catering service and the cost per student for the service and explains how this was determined. The math showing this will be turned in with their paper.</li> <li>Report states their prediction of how many students they think will attend this year's prom and explains this number based on their scatter plot and trend line. The scatter plot and trend line will be turned in with their report.</li> <li>Make a recommendation to the prom committee about student ticket price and justify why you made the choice using the math used throughout the project.</li> </ul> | <p>In addition to meeting the PROFICIENT criteria...</p> <ul style="list-style-type: none"> <li>Their report discusses the other factors that could affect these decisions and supports these factors with graphs, systems of equations that include these factors. The math work looking at these factors will submitted with the report.</li> </ul>  |
| <b>Peer Review</b>           | <ul style="list-style-type: none"> <li>No Peer Review.</li> <li>No evidence of suggestions made by reviewer.</li> <li>No changes made or no explanation as why changes shouldn't be made.</li> </ul>  | <ul style="list-style-type: none"> <li>Has proof from peer review.</li> <li>Shows suggestions made by the reviewer.</li> <li>Changes have been made to project or there is an explanation as to why the change was not made.</li> </ul>  | <p>In addition to meeting proficient criteria....</p> <ul style="list-style-type: none"> <li>Multiple peer reviews were conducted.</li> </ul>  |

| CRITERIA                    | Proficiency<br>1-6 | NOTES/SUGGESTIONS: |
|-----------------------------|--------------------|--------------------|
| <b>Choice of Band or DJ</b> |                    |                    |
| <b>Choice of Caterer</b>    |                    |                    |
| <b>Cost of Prom</b>         |                    |                    |
| <b>Written/Oral Report</b>  |                    |                    |
| <b>Peer Review</b>          |                    | Completed by:      |