



MATH 8 STATISTICS PROJECT

Name: _____

TRIMESTER III PROJECT

- **This project will be worth two test grades in the third trimester.**
- **There will be a penalty for projects submitted late.**
- **The deadlines and details for the project are listed below and on the back of this sheet.**
- **The project consists of three parts (initial information is gathered during Tri. II and the work is completed in Tr. III).**

General information: The purpose of the project is to gather data (high and low temperatures from an American city and a foreign city over a period of five days) and then to analyze the data using math concepts (statistics, etc.) already learned this year. Information for completing this project can be found in Chapter 7 (percent increase/decrease) and Chapter 9 (range, mean, median) of the textbook as well as in the notes/classwork covered in Trimester II.

PART I: GATHERING DATA (10% of your grade)

You will be assigned one American city and one foreign city for your project.

During the week of March 20 to March 24, you will gather data regarding the highs and the lows for your two cities. This data should be taken from internet sources (weather.com, etc.). Provide a print-out to display each day for which you collected data. Complete the table (see website) by recording the high and low temperatures for the five days. **Bring two copies of the table with you to class on **WEDNESDAY, MARCH 29th**.** You **must make certain that you have the actual highs and lows for your assigned city, NOT the predicted ones.** Therefore, you must obtain Monday's temperatures on Tuesday, etc. This information can be obtained at *weather.com* (or at any other online weather source that provides the highs and lows that were registered for the particular dates) by typing in the name of your city and clicking on "yesterday". List the web address indicating where the information was obtained.

PART II: ANALYZING DATA (60% of your grade)
COMPLETED IN CLASS on TUESDAY, MAY 2nd

You will be required to analyze the data you have collected for the two cities over the five days. The questions you will be required to answer can be found on the back of this sheet. You may use a calculator to find your answers, but you must also show your work. It is recommended that you review what is required before completing the work in class on 5/2. Make certain that you know how to complete the calculations (i.e., refer to your notes and the textbook to review the necessary information). Come to extra help if you are uncertain about any of the work. You will be permitted to use a calculator during class on 5/2, but you may not bring any previously-completed calculations into class with you. Your work will be collected at the end of the class period. It will constitute 60% of the project grade. This will be returned to you with the other parts of the project after the entire project is completed. (Note: Answers for this part should be rounded to the nearest tenth.)

PART III: CREATING AN AD (30% of your grade)
DUE: WEDNESDAY, MAY 10th

Using a budget of no more than \$2500, you will create a flyer to outline a trip to one of your assigned cities. The flyer should contain information about airfare, hotels, points of interest, etc., in your foreign city. This portion of the project will be graded on neatness, effort, creativity and ability to follow these directions. Once this portion of the project is graded, the grade will be combined with that of Parts I and II to get a total out of 100%. This total grade will count for **two test grades** for Trimester III.

FOLLOW ALL DIRECTIONS FOR THIS PROJECT CAREFULLY AND PRECISELY.

IF YOU FIND THAT YOU ARE HAVING DIFFICULTY WITH COMPLETING THE PROJECT, YOU ARE ENCOURAGED TO BRING YOUR DATA TO "EXTRA HELP" ALONG WITH A CALCULATOR AND THE SPECIFIC QUESTIONS YOU HAVE.

IT IS RECOMMENDED THAT BEFORE COMPLETING PART II IN CLASS ON MAY 2nd, YOU COMPLETE A "DRY RUN" OF THE CALCULATIONS ON YOUR OWN TO MAKE CERTAIN THAT YOU UNDERSTAND WHAT IS BEING ASKED FOR IN EACH QUESTION.

WHEN COMPLETING PART III, EMPHASIS SHOULD BE ON **NEATNESS and CREATIVITY**. BE CERTAIN TO USE FACTUAL INFORMATION. IF YOU ARE HAVING DIFFICULTY, ASK FOR HELP!

PART III: On **Wednesday, May 10th**, to submit a flyer/ad outlining a one-week vacation to your foreign city. **(30% of total grade)**

The flyer should include the following:

- the dates of your trip
- airfare (include airline, costs, times of departure/arrival, origin and destination airports, etc.; airline prices vary according to time of year so plan accordingly)
- hotel (include weekly or nightly rate as well as hotel rating)
- three points of interest in the city (including applicable admission costs and other details where available)
- average cost of dinner per night (include, if you wish, possible restaurants)
- average temperature (weather) for the time of year of your visit
- picture(s) from the destination

IMPORTANT NOTES FOR PART III:

- Use a budget of no more than \$2500.
- The information may be presented in the form of a single-page flyer or a brochure.
- This portion of the project will be graded on information provided, effort and creativity.
- If you have any difficulty finding any of the information above, please ask for help.

Parent Signature: _____