

Scott B.
~REVISED~

Written but not used
Critiqued ~ Yes

Alg. I or I-A
Scope ~ will take
suggestions
2-3 class periods

Obj: **The Calculations of Planning a Trip**
Calculations for planning a trip

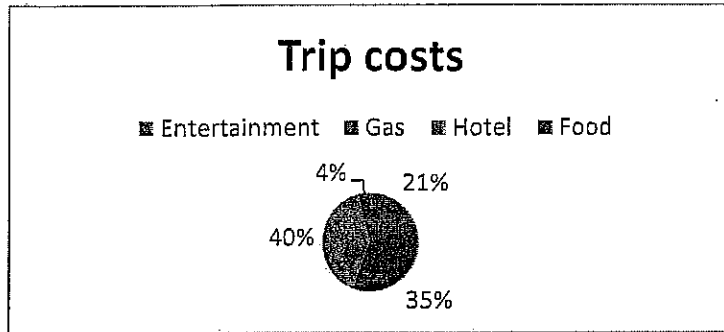
Preface: Sometime in the future you are asked by your kids to plan a trip to Disneyworld. Let's say that you are currently living in Mapleton, IA and you will be driving to your destination. You plan on leaving Monday morning at 6:00 A.M. and must be home by the following Sunday evening in time for a little rest and relaxation before you go back to work. Let's make the return deadline 6:00 P.M. Sunday night.

There are many things that need to be considered as you plan this trip. First thing you are going to do is draw two scenario cards. These cards will be used for making calculations for this trip. The first card tells you how many people are in your family and what type of vehicle you will be driving based on the size of family you have. The second card tells you what your yearly income is before taxes.

Task:

- 1.) Create a detailed report of your trip using a daily log book along with internet resources to help you make a plan. Each day you need to write in detail the things you will be doing on that day. Plan on eating three meals a day, driving no more than 14 hours a day, and staying in a hotel each night. You plan on doing at least one big activity each day that you are in Orlando, so make sure in put that in your log book. An example would be that on Day 4, you took your family to Universal Studios. Make sure you research ticket costs and other costs associated with each park you go to. Make sure you are able to make it home by 6:00 P.M. Sunday evening.
- 2.) Once you find a desired route of travel, write down the total mileage it takes to get to your destination. Let's assume you are able to travel at an average speed of 55 mph with the idea that you will go faster than this but you will also be stopping periodically. Use the formula $d=rt$ to make a prediction of how long it will take you to get to your destination, calculated to the nearest minute. How does this compare to what the computer predicts for time?
- 3.) Create a budget report that will keep track of all the costs you know you will encounter on your trip. To make meal costs easier, use the estimate chart below to help determine overall food costs. You will have to make an estimate on cost of gas. To do that use your second scenario card to calculate what your vehicle gets for gas mileage along with total mileage of the trip and the current national average price per gallon of gas (www.fuelgagereport.com). You will need a place to stay each night, so you will want research a hotel to stay at each night of your stay. When you add hotel cost to your budget it would be wise to add tax to this purchase if it doesn't add it in for you. Add 7% tax to the total if it's not give. To help organize your budget you may use a Microsoft program (word or excel) or create your own table. Finally, use your table to compute what percentage each category will be. (Example, if gas cost is \$300 and total trip is

\$1800, you could calculate the percentage you spent on gas, see chapter 4 in your book if you forgot how to do this). Once you have the percentage breakdown, create a circle graph by hand or by using Microsoft word.



Breakfast Cost: \$3.50 per child, \$5.00 per adult

Lunch Cost: \$5.50 per child, \$7.00 per adult

Dinner Cost: \$7.50 per child, \$9.00 per adult

- 4.) Write a [?]short paper that includes a summary of your trip. Include important things from ^{your} your daily log, include the total cost of your trip and your pie graph. Write a paragraph that tells you what percentage of your income you are planning to spend on the trip. Also explain what you could have done to save some money on your trip and how you could have done it. Cite your internet sources by copying and pasting the website URL to the bottom of your paper.

using MLA style; like this:

Scoring Rubric
for Elaborated Communication
indicators would help EC

Example Scenario Cards

Gross Income \$38,000 per year. Take 30% of this number to calculate what your net income is.

You have 4 kids and a husband/wife

Vehicle: Mini Van

Fuel Tank size 18 Gallons, your last two mileage counts were 34,682 and 35,015. Calculate miles per gallon to use as you predict fuel cost for you trip.