

MATH 0030

In Class

Work 2/17

Name

- **DIRECTIONS:** Read carefully the information below. Then answer each of the questions that follow.

You are the traveling secretary for the Math Club. You must plan a trip from Mason, OH, to Cleveland, OH. Like any trip, this one requires advance planning. Thirteen people sign up for the trip. You plan to go on the trip also.

The main focus of the trip is to attend two Cleveland Indians baseball games, one on Friday night and one on Saturday night. You order everyone's tickets. Each ticket costs \$15.50, and there is a \$2.00 surcharge per ticket.

Although the first game starts on Friday at 7:30 P.M., the group decides to leave Thursday morning in order to provide time for sightseeing before Friday's game. The group will return late on Sunday. To ease travel and increase camaraderie, you make arrangements to lease a 23-foot motor home at the cost of \$105 per day plus \$0.20 per mile. You expect to travel 225 miles to Cleveland, and will probably travel an extra 200 miles for sightseeing. The motor home gets 10 miles per gallon, and one gallon of gas costs \$1.55. (*Hint:* Be sure to remember to include the cost of the trip back home.) The group is using money from the Club budget to pay for tolls.

The motor home sleeps six people comfortably; the others will require lodging. You locate lodging at a motel in suburban Cleveland at the group rate of \$42 per night, tax included, for a double room (where a **maximum** of 2 people can stay) and \$49 per night, tax included, for a triple room (where a **maximum** of 3 people can stay). The motor home will be allowed to park overnight in the motel parking lot for free.

You plan to charge all of the expenses to your credit card. You even have to give the rental agent a \$1400 refundable deposit on the motor home, which you also charge. You expect to pay your fair share, but want everyone to pay all expenses prior to the trip. If there are any refunds, they will be split equally when the group returns home.

Name _____

➤ **DIRECTIONS:** Show each step, and show the numbers you used to answer each question.

1. How much is the **total cost** for the:

a) tickets _____

b) motor home:
daily rental _____

total mileage _____

gas _____

refundable deposit _____

c) lodging (choose the least expensive arrangement) _____

2. What is the total amount that will be charged to your credit card?

3. How much will you charge each participant?

4. Should each participant expect to get some money back at the end of the trip?
Explain why or why not.