

Name: _____ Date: _____

How Much Will it Cost to Rent a Car?

Your family is planning a vacation. The family will be driving from your hometown to Miami, Florida. You are given the task of finding the most economical car rental. The car will be rented for 14 days. Once in Miami you will park the car and not drive it again until you are ready to return home. You will still be paying the daily rental fee for the time the car is parked in Miami.

ABC Car Rental charges \$120.00 per day plus a fuel surcharge of \$0.20 per mile.

Ziggy's Budget Cars charges \$175.00 per day plus a fuel surcharge of \$3.00 per day.

1. Write a linear equation to model the cost of renting a car through ABC Car Rental and Ziggy's Budget Cars.
2. Using the linear equation, calculate the daily cost for each plan assuming that you are driving 350 miles per day until you reach your destination. (The final travel day should include any remainder of miles to reach Miami)
3. Graph the results to determine which plan best suits your family's needs.