

## Matrices (Beginning)

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### Background Information:

- Students will need to know how to organize information into a matrix.
  - Students will need to know how to enter matrices into the graphing calculator.
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### Materials and Equipment:

- Graphing calculator and view screen
  - Each student will need:  
graphing calculator and handouts
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### Notes to Teacher:

- Students may work alone or in pairs on this activity.
  - The time allotted for this activity varies depending on the ability level of the students.
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Activity Sheet:        Matrices (Beginning)

Place all the information into matrices that will help organize the data.

Gertrude, Marilda and Homer love to eat at fast food places. Generally, Gertrude orders 4 hamburgers, 4 sodas and 4 French fries; Marilda orders 6 hamburgers, 1 soda and 1 French fry, while Homer orders 2 hamburgers, 10 sodas, and 2 French fries. They shop around and find the following information for their favorite fast food places:

Wendy's charges \$1.69 for hamburgers, \$.79 for sodas and \$.69 for French fries.

McDonald's charges \$1.85 for hamburgers, \$.59 for sodas, and \$.75 for French fries.

Burger King charges \$1.75 for hamburgers, \$.65 for sodas, and \$.59 for French fries.

Use the matrices to determine how much each person will spend at each fast food place. Recommend a fast food place for each person. Explain your choices.