

Systems of Linear Equations

INSTRUCTIONS:

1. *Read the Example aloud.*
2. *As a group, create a system of equations representing the problem. Make sure everyone agrees!*
3. *Once you are agreed, each person in the group should solve the system of equations individually. Compare answers with the rest of your group. Feel free to discuss the problem along the way.*
4. *Hand in: One copy of the **equations** and **answers** only (along with date & names of group members).*

Example

Doctors have become increasingly concerned about the sodium intake in the U.S. diet. Recommendations by the American Medical Association indicate that most individuals should not exceed 2400 mg of sodium per day.

Torie ate 1 slice of pizza, 1 serving of ice cream, and 1 glass of soda for a total of 1030 mg of sodium. David ate 3 slices of pizza, no ice cream, and 2 glasses of soda for a total of 2420 mg of sodium. Emilie ate 2 slices of pizza, 1 serving of ice cream, and 2 glasses of soda for a total of 1910 mg of sodium. How much sodium is in one serving of each item?