

ANNIVERSARY CELEBRATION

Your task is to help the Lincoln Middle School plan a 35th anniversary celebration. Lincoln consists of:

- ten 6th grade homerooms with an average of 25 students each;
- nine 7th grade homerooms with an average of 30 students each;
- ten 8th grade homerooms with an average of 20 students each; and
- a staff of 60 teachers, custodians, secretaries and other personnel.

The school has a \$2,000 budget to purchase all items needed for the celebration and the planning committee is hoping to provide pizza and soda for all of the participants. The committee also has gathered the following data:

- a large cheese pizza with eight slices costs \$10;
- a small cheese pizza with eight slices costs \$7.50;
- a two-liter bottle of soda costs 99 cents;
- a six-pack of soda costs \$1.25;
- a pack of 50 paper plates costs \$2.89; and
- a pack of 250 napkins costs \$1.89.

Explain to the committee in writing how you would determine the amount of pizza and soda they would need and determine the cost of these items for the celebration. Will \$2,000 cover the costs?

Should they hold a fund-raiser or charge admission? Show how you arrived at your recommendations.

[Source: A Guide to K-12 Program Development in Mathematics, State of Connecticut]