A Lunch-In Affair

A Class Holiday Party

Students plan the menu for a pasta party for the entire class. Each student will create a spreadsheet that lists the items to be purchased, the price of the item, the quantity needed and the total cost for each item bought.

Learning Objectives

Students will:
- determine what formulas are used to calculate: the number of servings per package; the number of packages need to make 30 servings; the cost of purchasing the need number of packages
- create a spreadsheet with proper headings, cell formats and formulas that lists the items purchased along with the quantity, the cost of each item and the total cost
- calculate each student's share of the cost of the meal among class members proportionate to the amount of food ordered

Instructional Plan

Using Google Docs or Microsoft Excel, students create a spreadsheet that lists the items they need to purchase for the party menu. (see list below)

Shopping List
pasta
pasta sauce
grated cheese
green salad
salad dressing
Italian bread
soda
ice cream

Students will go online to the website http://www.shaws.com/savings/viewadslisting to find the prices for the items on the list and add the prices to the spreadsheet.

They should determine the quantity of each of the items so that they can prepare a meal for 30 people.

After calculating the cost of all the items on the list they need to calculate each person's share.

Proper column headings should be entered into the spreadsheet along with appropriate format for the values in the spreadsheet.

Materials

netbooks (one per student) with Internet access
pre-assessment worksheet

Assessment

Review and assess the students' spreadsheets looking for accuracy, proper organization, formatting and use of formulas.

Standards

Math:N&O:6:3 Demonstrates conceptual understanding of mathematical operations by adding and subtracting positive fractions and integers; and multiplying and dividing fractions and decimals.

Math:N&O:6:6 Uses a variety of mental computation strategies to solve problems (e.g., using compatible numbers, applying properties of operations, using mental imagery, using patterns) and to determine the reasonableness of answers;

Math:N&O:6:7 Makes estimates in a given situation by identifying when estimation is appropriate, selecting the appropriate method of estimation, determining the level of accuracy needed given the situation, analyzing the effect of the estimation method on the accuracy of results, and evaluating the reasonableness of solutions appropriate to grade level GLEs across content strands.

NETS 4. Critical Thinking, Problem Solving, and Decision Making

Students use critical thinking skills to plan and conduct research, manage projects, solve problems, and make informed decisions using appropriate digital tools and resources.

NETS 6. Technology Operations and Concepts

Students demonstrate a sound understanding of technology concepts, systems, and operations.