Name: _____ Date: _____

Class Party!

Try another experiment. This time you will have to name the elements of the experiment yourself.

Nat and Alonzo need to buy refreshments for the class party. Alonzo says that at previous parties, people did not like the food. Nat's favorite foods are hot dogs with salsa, and blueberry muffins, with orange soda-pop for a drink. Alonzo says they need to find out what the other students would like to eat. Nat says he thinks everybody will like the same foods as he does. They decide to take a survey of the class and record their data to decide what they want to eat.

They make up a ballot that looks like this:

Meal 1: Hot dogs with salsa, blueberry muffins, and orange soda-pop

Meal 2: Nachos with popsicles and lemonade

Meal 3: Chili dogs, chips and soda

Meal 4: Pizza with chips and juice

Meal 5: Hamburgers with fries and a soda

They pass the ballot out to the class and each student picks one meal as his favorite.

Nat and Alonzo *tally,* or *add up,* the ballots using tally marks and a sheet like this.

Meal 1:	2
Meal 2:	16
Meal 3:	5
Meal 4:	8
Meal 5:	9
Total: 30 votes	**Winner: Meal 2**

Nat and Alonzo sit down and look over the results. Most of the class wants nachos with popsicles and lemonade. Nat is surprised.

Alonzo thinks maybe they had too many choices on the ballots and people may not still be satisfied. Nat also realizes they did not ask what flavor of popsicles people want.

Name: _____ Date: _____

Fill in the chart for Nat and Alonzo's experiment.

Problem:
Hypothesis:
What is tested:
Experimental design:
Control:
Variable:
How is data collected:
Data and results:
Analyze and interpret data:
Discussion:
Re-evaluation:
Error Analysis:

Can you name any other re-evaluation or error analysis items?

What do you think the basketball experiment proved or did not prove?