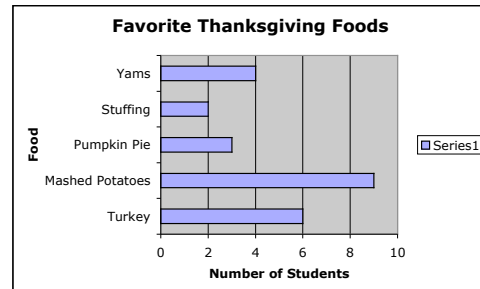


Classroom Strategies with Excel

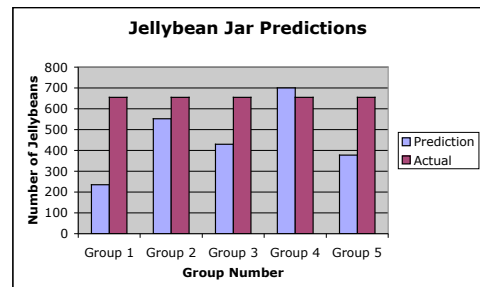
Kindergarten and 1st Grade

- Gather data about themselves and their surroundings to answer questions that involve multiple responses
- Sort and classify objects and organize data according to the attributes of the objects.
- Represent data to convey results at a glance using concrete objects, pictures, and numbers
- Examples: A chart showing types of pets students in the class have; a chart showing students' favorite Thanksgiving food; a chart showing Yes/No responses to a question



2nd and 3rd Grade

- Formulate questions they want to investigate
- Collect data using observations, measurements, surveys, or experiments
- Use graphs to analyze data and present it to an audience for in and outside the classroom
- Examples: Make a chart of predictions about the number of jellybeans in a jar. Graph the predictions vs. the actual amount (maybe even do this by color). Create a chart of shoe sizes. Create a chart showing the class's favorite colors.



4th and 5th Grade

- Formulate multiple questions for an extended investigation
- Compare and analyze representations to determine which aspects they think should be highlighted or obscured
- Use the data as a vehicle to formulate answers to questions and hypothesis and design further questions to study and explore
- Look beyond themselves and the classroom and investigate larger issues and questions
- Examples: Keep track of the temperature every day for a month and graph results; can even use the AVG function to get averages. Use an almanac to graph average temperatures for large cities and compare to temperatures now.

