

EME 5051

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Job Title: Math teacher, Galaxy Middle School

Grade Level: 6th

Activity Title: Graphing for Fun

Purpose: To show mastery of the 6th grade curriculum in regards to standards MA.3.S.7.1, MA.7.S.6.2 and MA.8.S.3.1, using a variety of methods organize, construct and analyze data displays.

Overview: This activity is to be used after the formal classroom lessons on reading, interpreting and creating graphs. The following web tools will be used:

[Kids Zone Create a Graph](#)

[Google Docs](#)

Graphing for Fun

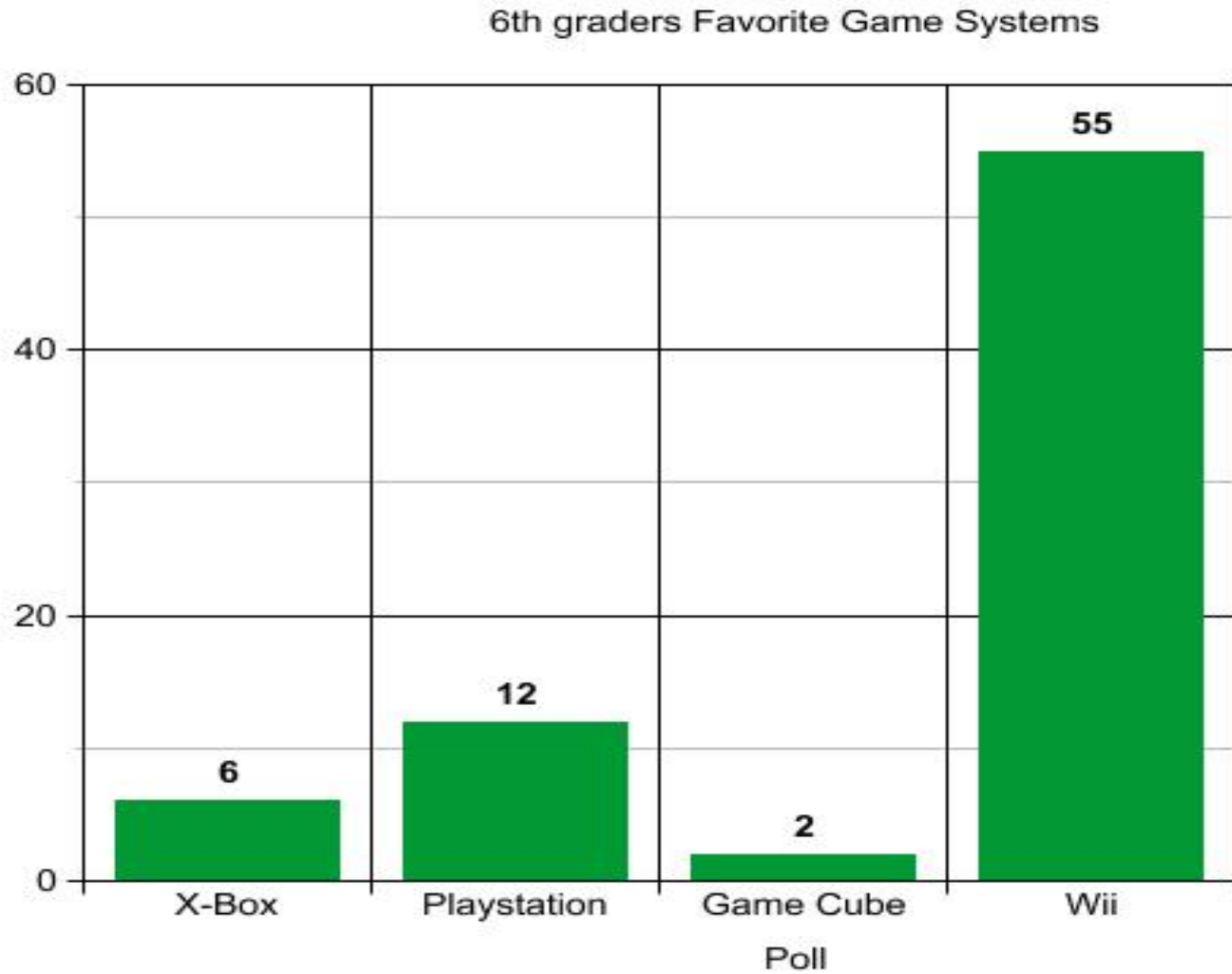
A 3 part project

What is your favorite Game System?

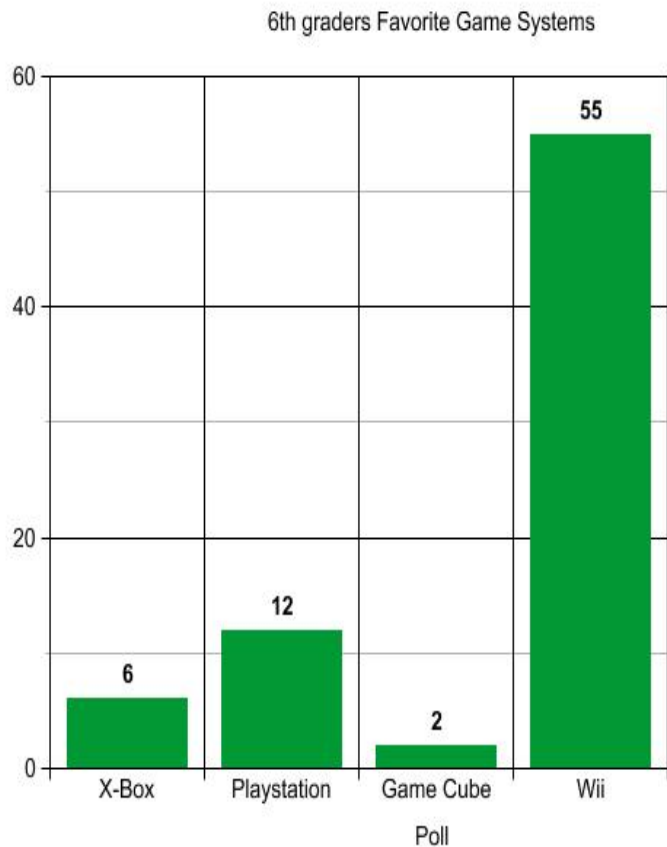
- A) X-Box
- B) Playstation
- C) Game Cube
- D) Wii



I surveyed 75 6th graders. Here are the results.

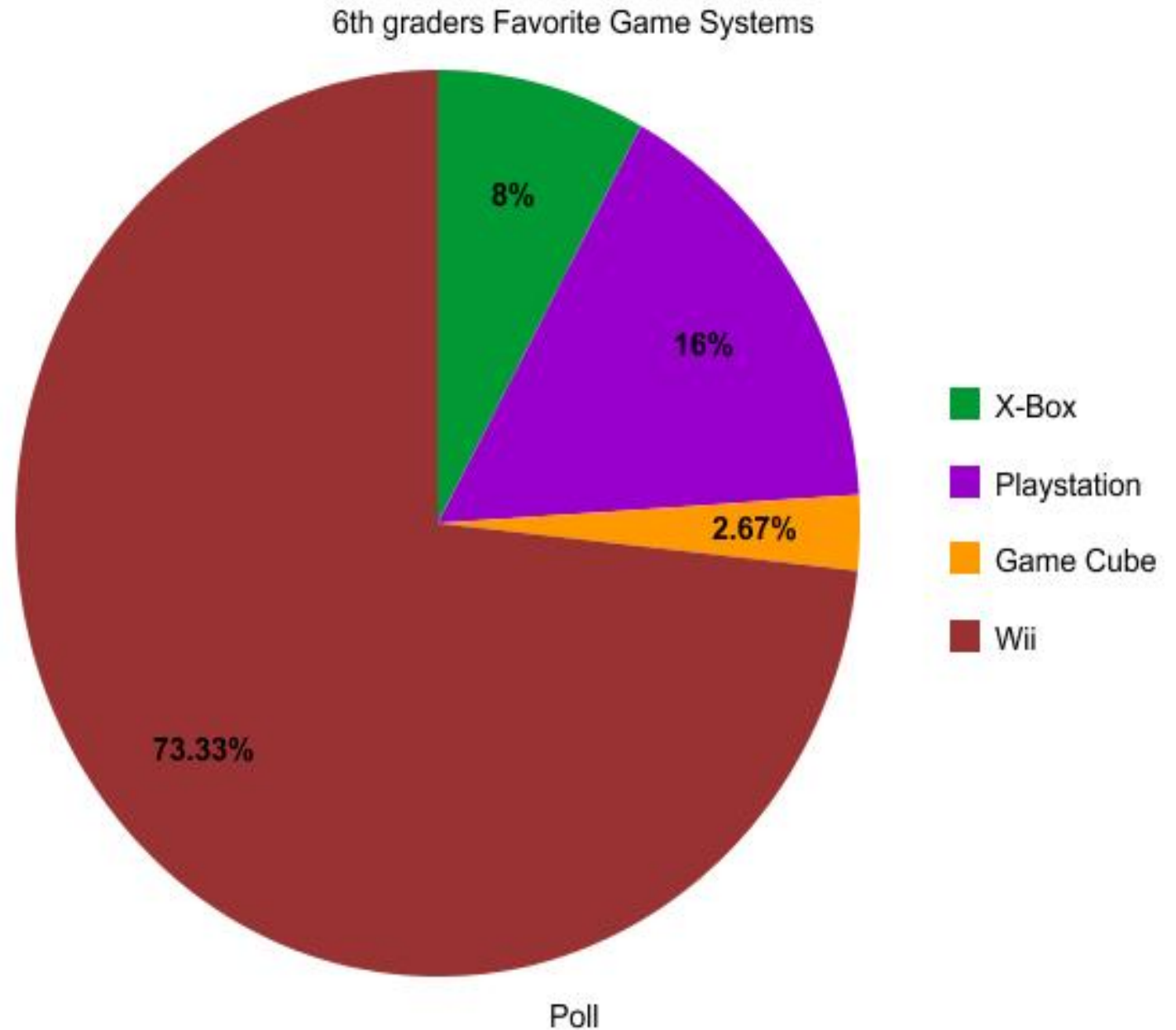


Interpreting graphs

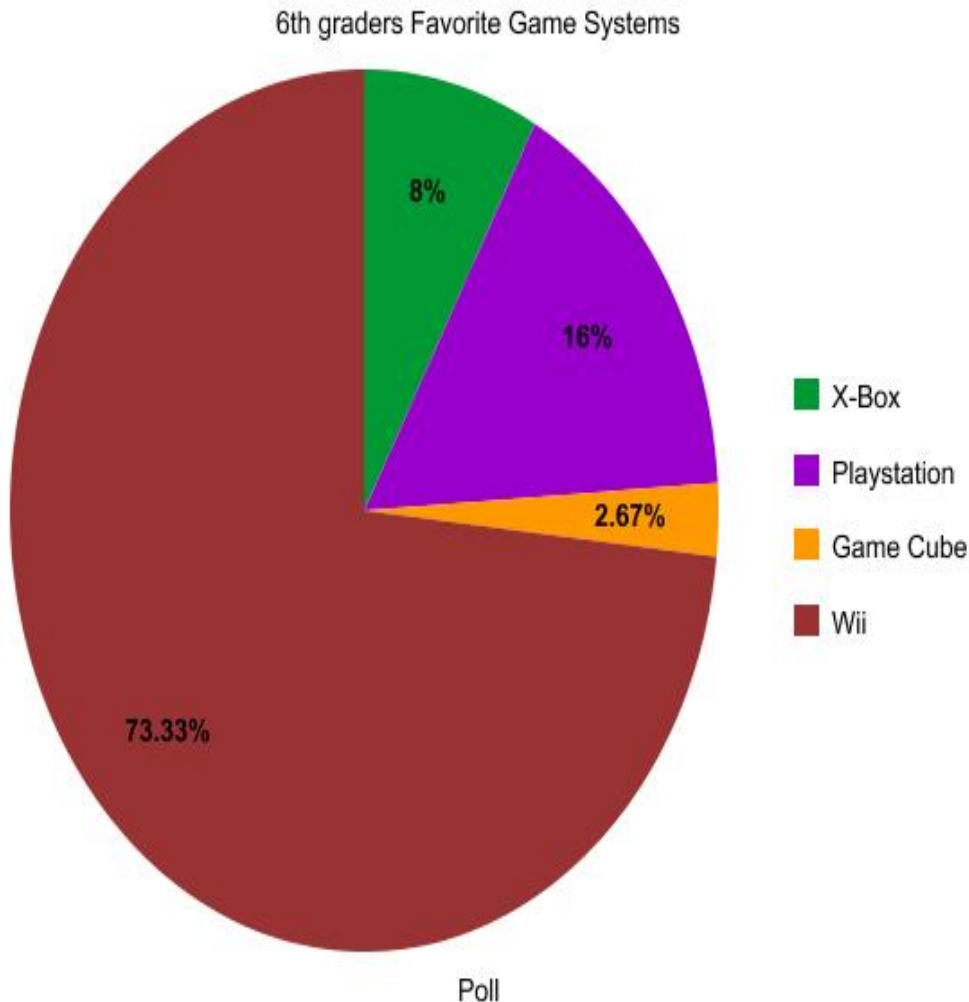


1. Which system was favored by these 6th graders?
2. Which system was least favorable?
3. How many more students like the playstation than the X-Box?
4. What is the range of this data?
5. Using the data, approximately how many students would favor Playstation if the survey polled 150 students?

Representing the data in more than one way.



Interpreting graphs



1. Compare the percentages for the Playstation and X-Box data.
2. Explain why someone may estimate the data for the Wii as 75%.
3. What percentage of students prefer the Playstation system?
4. Using the data, how many students prefer the Playstation Game System?
5. What percentage of students enjoy the Game Cube or X-Box?

Making graphs are EASY!

Just visit to Kids Zone [Create a Graph.](#)



THE PROJECT.....

Step One: Create a survey question.

Create a survey question (appropriate for school) with at least 4 choices.

Example: What is your favorite type of music?

A) Rock B) Country C) Jazz D) Pop

NON Example

What type of pet do you have?

A) Dolphin B) Tiger C) Dinosaur

What **two** things are wrong with this example?

1. The question does not match the options....You can not have a Dinosaur, Tiger or Dolphin as a pet.
2. The question **DOES NOT** have at least 4 options.

You create a survey
question...

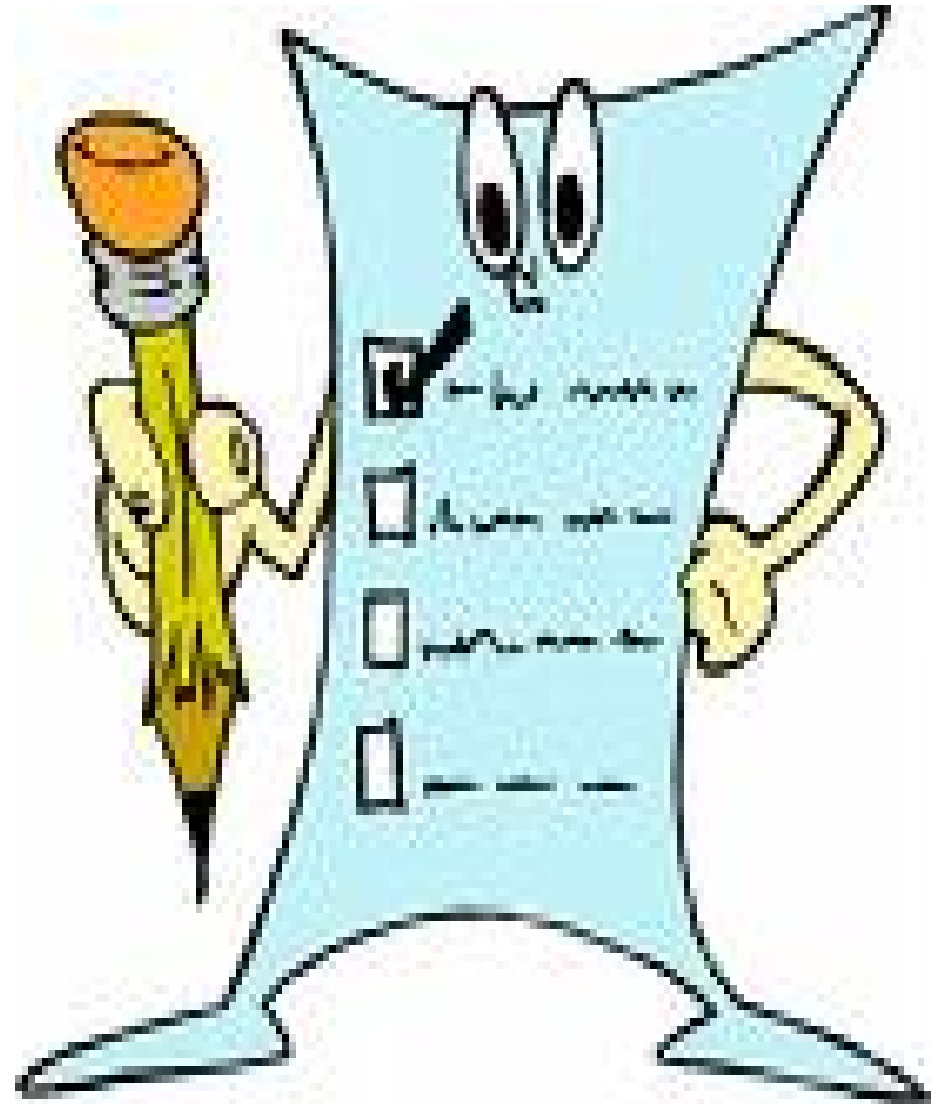
and I have to **APPROVE** it first...
before going to step two!!

Step Two: Conduct the Survey

Conduct your survey

You need to poll
AT LEAST 50 people.

The more the **BETTER**...



Step Three: Create the Graphs

Visit Kids Zone [Create a Graph](#).

(<http://nces.ed.gov/nceskids/createagraph/default.aspx>)

1. You need to create

1 bar graph using values.

1 circle graph using percentages.

2. Save each of the images as pictures using the option JPG

Be creative...Play with all the options....

Let's conduct a survey and try to create a graph together:

1. What is your favorite color?

A) Red B) Blue C) Yellow D) Green

2. Collect data:

Red: 14

Yellow: 3

Blue: 5

Green: 8

Step Four:

Ceate a Presentation

1. Visit [GoogleDocs](#) and create an account. It is free.
2. Create the presentation using the data you collected and the graphs you created.

What needs to be in the Presentation?

The Presentation needs to include:

1. Title and name
2. The survey question.
3. The data collected from the survey question.
4. A Bar graph depicting data values with five questions related to the graph.
5. A Circle graph depicting the data percentages and five questions related to the graph.
6. A Minimum of five slides.

BE CREATIVE.....

HAVE FUN...

Teacher notes:

When using this presentation:

Slide 13: Conduct the survey with your class, collect the data and then go to Kids Zone [Create a Graph](#) and show the kids how the site works.

Slide 14: Explain to the kids that this presentation was made with [GoogleDocs](#), then visit the site and show them the main features/functions of creating a presentation.