Math 9 - Unit 1: Real Numbers

Lesson #5: Statistics

Name: Name: Sept 13, 2018

Learning Goal: We are learning to collect, organize, analyze and display data

Statistics is a branch of Mathematics. It deals with collecting data, organizing, and analyzing it, then finally interpreting, and presenting it. In this lesson, we will look at analyzing and presenting data.

There are many ways to analyze data, but we will focus our attention on the mean, median, and mode.

The mean is the average of all the numbers
- add all the numbers, then divide by the number of numbers

The median is the middle number

@ Sort the list from smallest to largest

DIF the list has on odd # of #'s, the Median is the middle

The average of the two middle numbers

The mode is the most occurring number.

Example 1: Test scores in a Math class were as follows: 78, 67, 85, 81, 90, 74, 95, 85, 80, 92. Calculate the mean, median, and mode.

67, 74, 78, 80, 81, 85, 85, 90, 92, 95

Mode: 85

Median: 81+85 = 83

Men: 827 - 82.7

Example 2: Hits at a week's worth of baseball games were recorded as follows: 13, 16, 6, 10, 7, 8, 9. Calculate the mean, median and mode.

6, 7,8,9,10,13,16

Mode: no mode/NA/none/noda/el zippo

Median: 9

Mean: 69 = 9.9

Pie Charts are a quick and useful way to present data. The first step, after organizing the data, is to calculate the percents for each category.

Example 3: Twenty people were asked to indicate their favourite movie genre. The results are in the table

below. Calculate the percentages of each category, then create a pie chart.

Favourite Movie Genre			
Comedy	4	4/20=0.2=	20%
Romance	6	6/20=0.3=	30%
Drama	1	1/20=0.05=	5%
Sci-fi	4	1/20 = 0.2 =	20%
Action	5	5/20 = 0.25 =	= 25%
	20		100%

reate a pie chart. Favourite	Genses of Movies
Camedy	Action
Romance	Sci-fi Ocama

Success Criteria:

- I can analyze data using mean, median, and mode
- I can display data using percentages and pie charts