MTH 23.5 LECTURE NOTES (Ojakian)

Topic 5: Bar Graphs

OUTLINE

References (**Algebra Book**: ; **Statistics Book**: 2.1)

1. Frequency Tables
2. Bar Graphs

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1. Frequency Table For Categorical Variable
   (a) Example. From class - pick some categorical variable
   (b) Make Frequency Table
      i. Lablel classes
      ii. Each data item in exactly one class
2. Bar Graph
   Make Frequency Table (of categorical variable) into a graph
   (a) Horizontal x axis: Classes of categorical variable
   (b) Vertical y axis: the frequency
   (c) Example: Make bar graph of above example
3. Relative Frequency
   (a) The y values are percentages.
      i. Count the total number of data, say N.
      ii. Find the percent of total for each class (divide the count in each class by N)
      iii. Keep as a decimal or convert to percent
   (b) Section 2.1 - Example 2.6
   (c) Make relative frequency version of our example.
4. Numeric Categories
   x values are numeric ranges. Almost a Histogram!
   (a) Section 2.1 - Example 2.5 Tik/Tok