Math Virtual Learning

Algebra IIB

The Data Unit - Analyzing Graphs

May 1, 2020

Learning Target:
Data and Statistical Analysis
Make inferences and justify conclusions
Evaluate reports based on data.

Let's Get Started:
Click and read through this slideshow link
to see how to interact with the graphs:
Introduction to Graph of the Week

Practice:
Click on this link below to pull up
your Graph of the Week:
The Netflix Generation

1. **Read and think** about the guiding questions on the top left of the pdf.

2. To write your response, think of it in three parts
   a) Analysis of the information
   b) Prediction of the near future
   c) What solution(s) can you investigate **OR** what other information/resources can you gather to strengthen your argument in part (b)?

Answer Key:
Here are two sample responses to "The Netflix Generation".

Analysis:
The top graphic shows 29% of Mills watch 3+ hours per day compared to 46% of Non-Mills. But it doesn't say what they are watching.

Below the second graph, it said 61% of Mills chose Netflix first/second and then 55% of Mills chose Cable first/second. That adds up to 106%—WHAT! And it was misleading. I thought the data on the right was Non-Mills but the 55% was describing Mills.

According to the bottom graph, they claim that the age of viewers which is declining on Cable TV viewing is actually **causing** the stock price on Netflix to go up. **Oh Really?!**

Predict/Support
It think Cable TV viewing is going to continue to decline with Mills. But I think it isn't because Cable is obsolete. I think it is because of the STREAMING options on our smartphones. (Cable TV means being attached to a cable in our home). I would want data on hulu, netflix, and streaming habits to make better conclusions.

Analysis:
The top graph is misleading. All it's saying is that Mills watch less TV than Non-Mills. Half of Non-Mills go over 3 hours but only a fourth of Mills go over 3 hours.

The graphic that says 61% and 55% doesn't say much because that is what most people do. Saying 1st or 2nd you could be part of both statistic. So it's misleading.

How can the Netflix show data in 2017 when the graph is specific for Quarter 3 in 2016? And both the blue and red lines dropped between 13-14. If they are trying to say as TV time goes down, Netflix goes up? But Netflix drops even while the TV is going down so that goes against what they are claiming. Also the blue dashed prediction could spike and the argument would be gone too.

Predict/Support
Are the Mills actually age 18-24? In 2016 Mils were age 20-35. So this data has nothing to do with Mils!!! The graph is 2016 and there are only 4 years of Mills in that age group! And why is there only 18-24, 6 years span of age? Isn't that the College years?

Additional Practice:
Like to do more thinking about graphs that are out there?
I don't have any answers to these, but maybe discuss with a friend.

[Graph of the Week Archives](#)