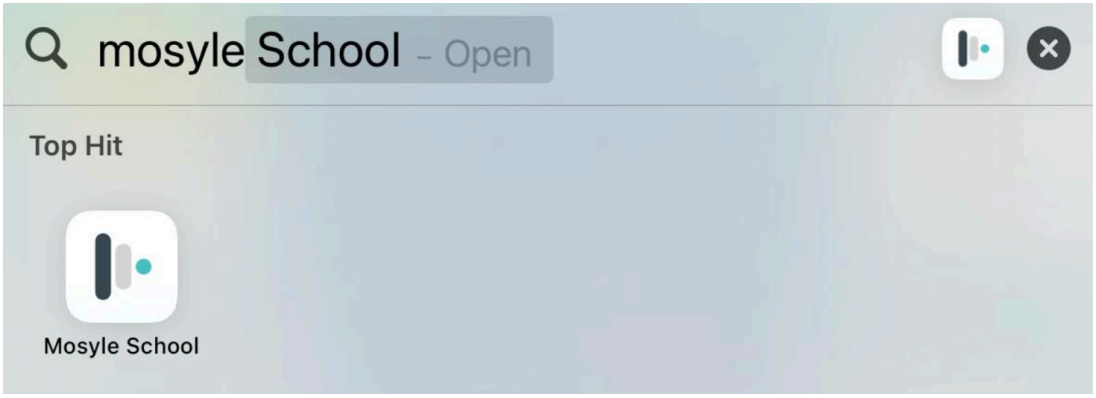
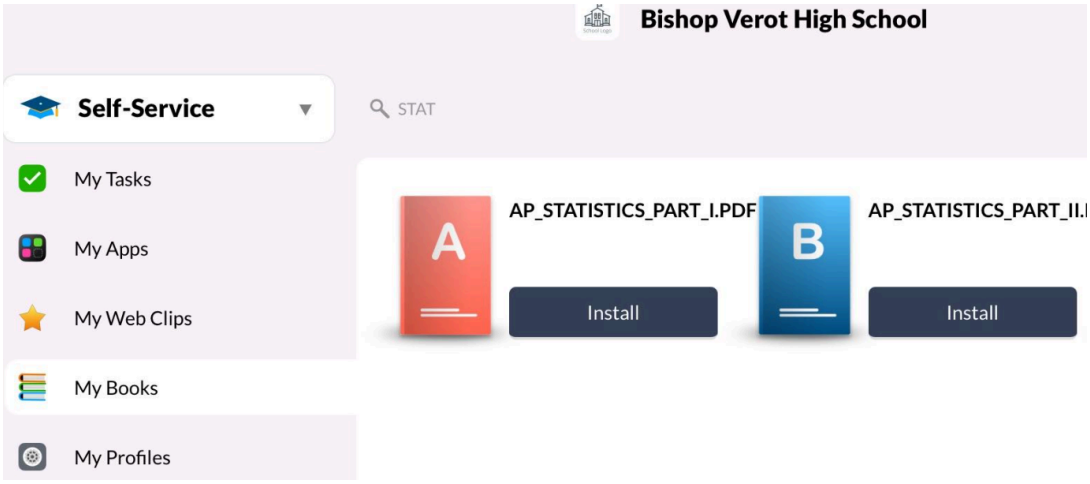
Ms. Scruggs
AP Statistics Summer Assignment School Year 2026-2027

1. Download your book
    a. Go to Mosyle Manager application



    b. Click on books and search Stat(download both part 1 and part 2 below)



    c. Download both of the books above

2. Read book pages 1 to 6(pdf pages 29 to 34)
3. Do Introduction Exercises 1 to 8 all. The exercises start at the bottom of the book page 6 to 8(pdf page 34 to page 35).

See next page for more…..

4. Fill out the assignment while watching the youtube video
   AP Stats 1.1 - Misleading with Data

Lesson 1.1 Guided Notes

Quantitative vs. Categorical Data

Quantitative data: Data that is _____ (think 'quantities'). The values have an inherent _____.

List several examples of quantitative data:

Categorical data: Data where values are categories or group labels, which often _____ _____.

List several examples of categorical data:

Student	Height (in)	Dominant Hand	Final Exam Score	Home Zip Code
Bill	72	Left	77	68494
Julius	64	Right	83	68492
Yesenia	67	Right	91	68490

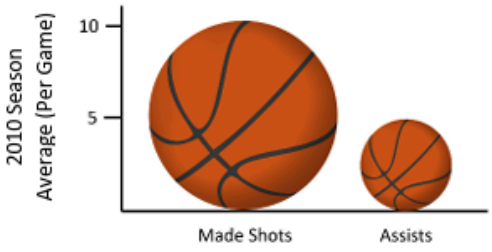
1. Label each of the variables (height, favorite color, final exam score, home zip code) as either quantitative or categorical. For each, explain your reasoning.

Data Visualization & Misleading Graphs

How to spot a misleading graphic:

1. It may not have axis labels or _____.
2. It may _____the x or y axis, or start at a weird place.
3. It may use_____for bar graphs (called a 'pictograph').

Example 1: "Kobe was a ball hog"



Example 2: "Chevy builds the most dependable trucks"

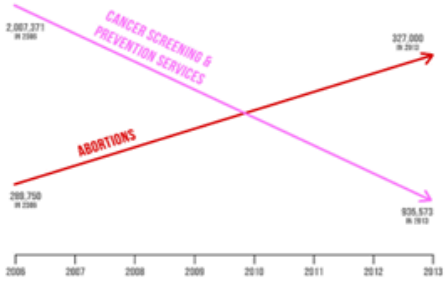


Example from TED-Ed: "How to spot a misleading graph"

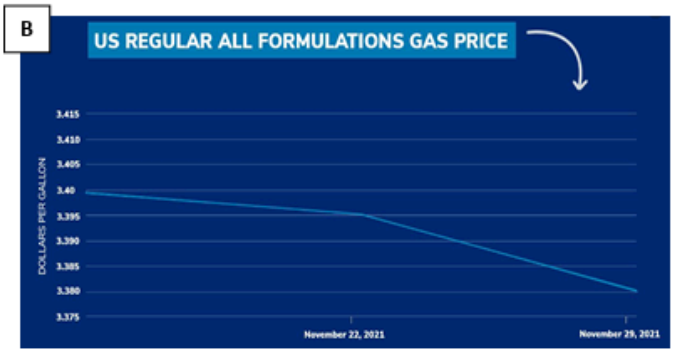
For each example, describe why the data visual might be misleading. Then, sketch a more transparent graph of the same data.

Lesson 1.1 Discussion

A



B

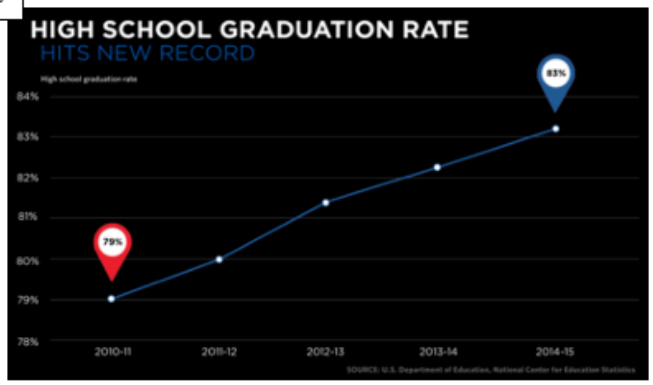


Discussion Question: Graph A was presented by a Republican Congressman during a hearing. Graph B was tweeted by a Democratic House political committee (the DCCC), with the caption: "Thanks, @JoeBiden." Why might each graph be misleading? Explain.

Lesson 1.1 Practice

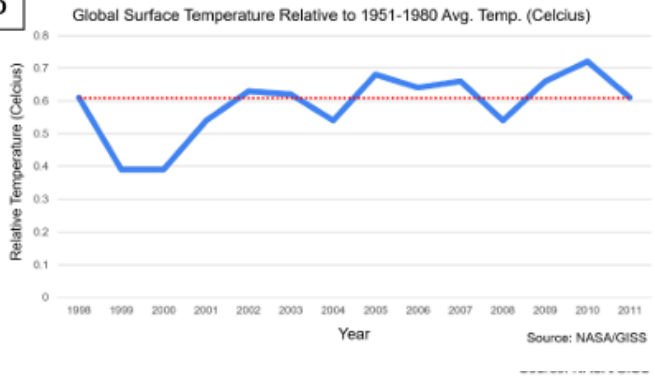
*Please complete all exercises **before turning to the next page**!*

C

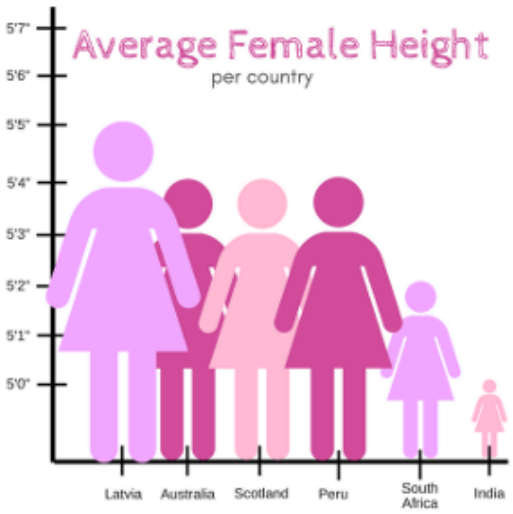


Source link: https://obamawhitehouse.archives.gov/blog/2016/10/17/graduation-rate-reaches-new-high-one-student-shares-his-story

D



E



Graphic found by Sabah Ibrahim on twitter

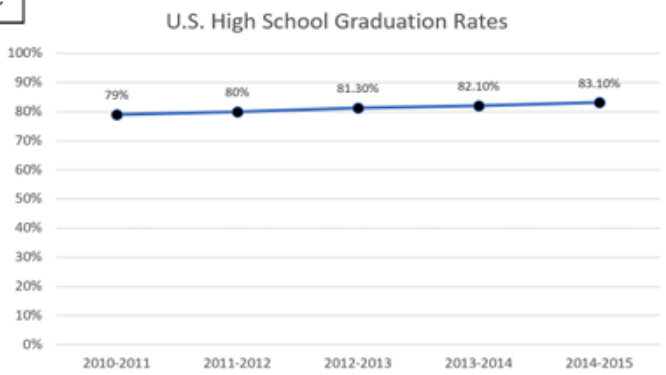
Graphic 'C' was published on the White House's official blog during the Obama Administration. It uses national school data prepared by the Department of Education.

Graphic 'D' was presented at summit of climate change skeptics. It uses global land-ocean temperature data from NASA's Goddard Institute for Space Studies.

Graphic 'E' was shared on Twitter and has an unknown origin.

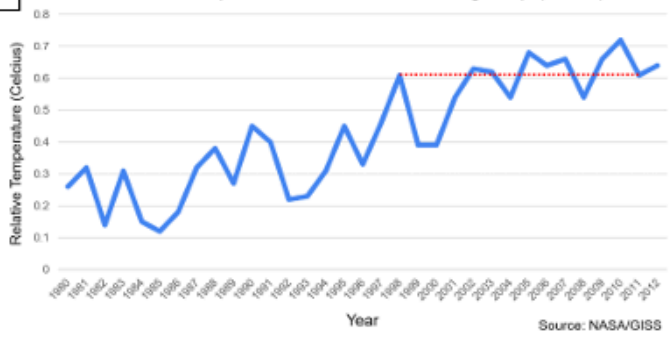
For each graph, answer the following questions: Is the visual misleading? Why or why not? If it is misleading, how would you change it?

C



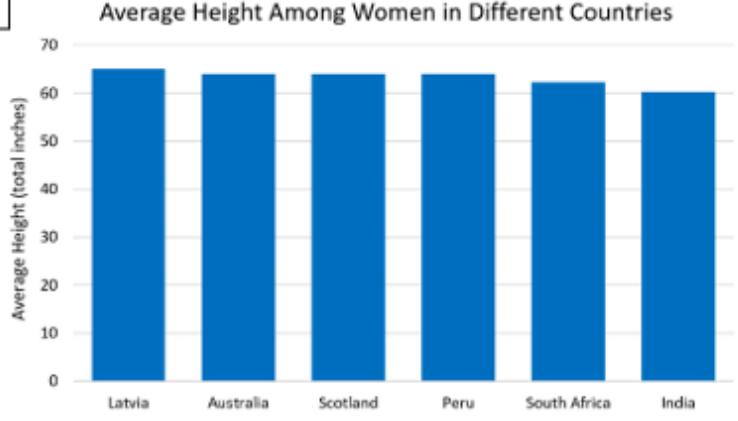
This page presents the **same data**, but with **adjusted graphs**. For each graph, answer the following question: What makes this version of the graph less misleading? Explain.

D





E



Problems 1-6: Determine whether the variable described would produce data that is categorical or quantitative.

1) Number of leaves on each fig tree in an orchard

2) Mile-run times for students in a gym class

3) Dog breeds represented in dog food advertisements

4) Area codes in school staff's cell phone numbers

5) Area of homeowners' property covered in pavement

6) Whether voters agree or disagree with the local referendum