

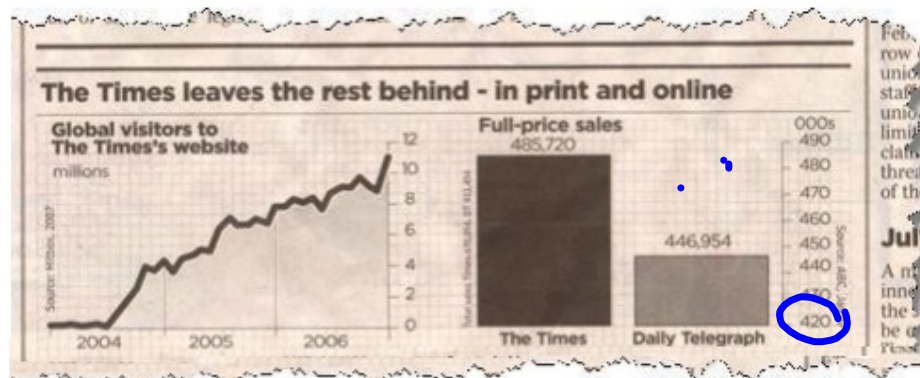


Warm Up Grade 8

Dec. 9, 2014



The Times leaves the rest behind...or does it?



a) Look at the data on the right. What impression does it give its readers?

You might be thinking that the graph on the right shows The Times makes double the sales of The Daily Telegraph. But take a closer look at the scale and you'll see although The Times does make more sales, it's only beating the competition by about 10%.

3. Graph B is misleading because the scale on the vertical axis starts at 100, which exaggerates the difference between the number of cans each person collected.
4. a) Graph A gives the impression that about 4 times as many students prefer Stanley Park to Canada Place. Graph B gives the impression that the number of students who prefer each place is about the same.
- b) Graph A exaggerates the differences between the numbers by starting the scale on the horizontal axis at 5. Graph B minimizes the differences between the numbers by extending the horizontal axis to 100, even though no more than 9 students chose any place.
- c) Stanley Park. The bar for Stanley Park is much longer than the other two bars.
- d) Canada Place. The bars look like they all have about the same length, making it appear that each place is equally popular. So, it was probably created by someone who wants to go to the least popular choice, Canada Place.
- e) To graph the data accurately, I would start the horizontal axis at zero and let one grid square represent 1 student.

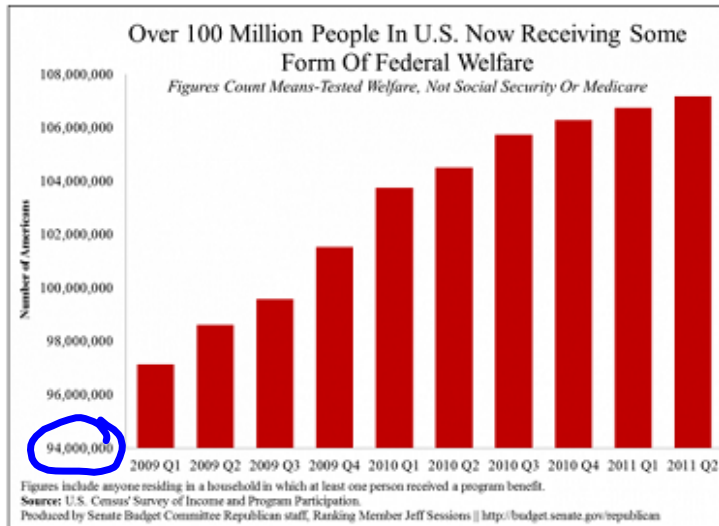
5. a) Incorrect. On Graph A, the point above April is about 3 squares higher than the point above January. So, people might make this conclusion if they do not notice that the scale starts at 100, not 0.
- b) Incorrect. On Graph A, the point above March is about 2 squares higher than the point above January. So, people might make this conclusion if they do not notice that the scale starts at 100, not 0.
- c) Correct
- d) Correct

Over 100 Million Now Receiving Federal Welfare

2:40 PM, AUG 8, 2012 - BY DANIEL HALPER

SHARE PAGE PRINT LARGER TEXT SMALLER TEXT ALERTS

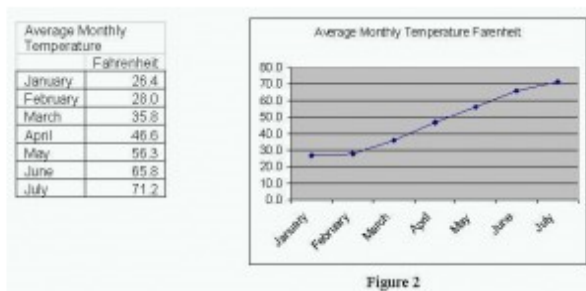
A new chart set to be released later today by the Republican side of the Senate Budget Committee details a startling statistic: "Over 100 Million People in U.S. Now Receiving Some Form Of Federal Welfare."



This graph makes our welfare problem look like it's spiraling out of control. But note where the y-axis starts...at 94 million!

If you really want to make a shocking statement, make sure you only include part of the data. Take this first example of a misleading graph that proves global warming is real.

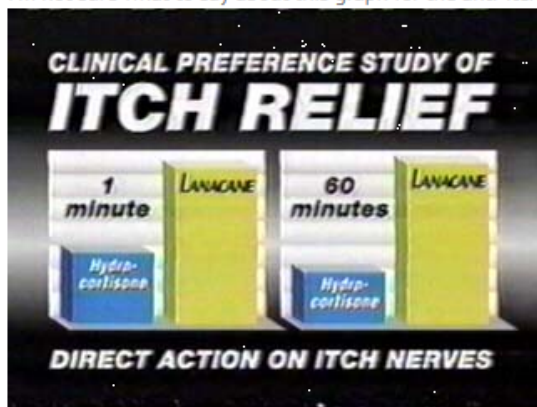
Global Warming out of Control!



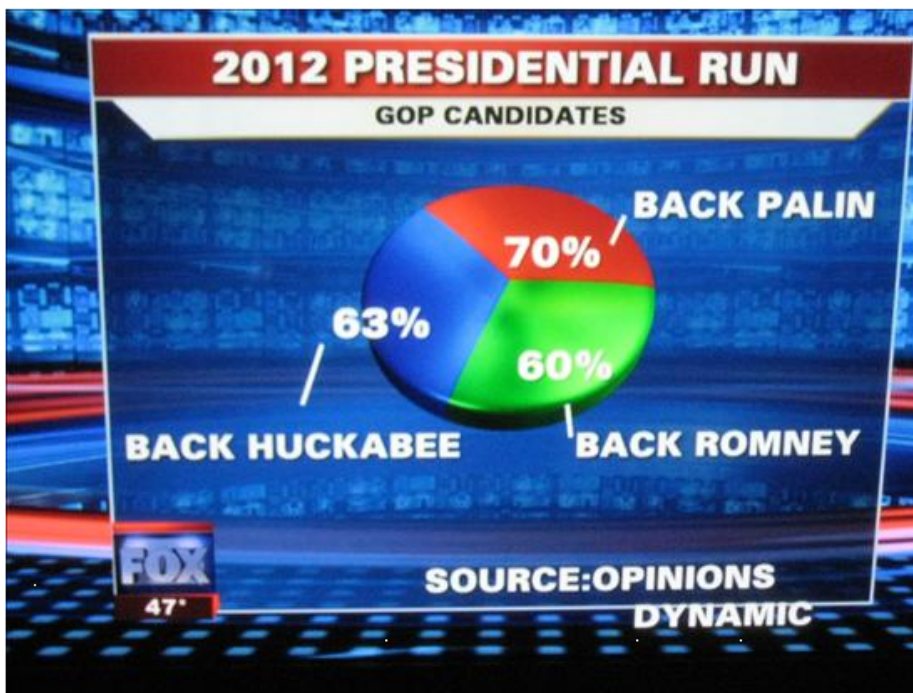
Average monthly temperature in New Haven, CT.

Image: Yale University

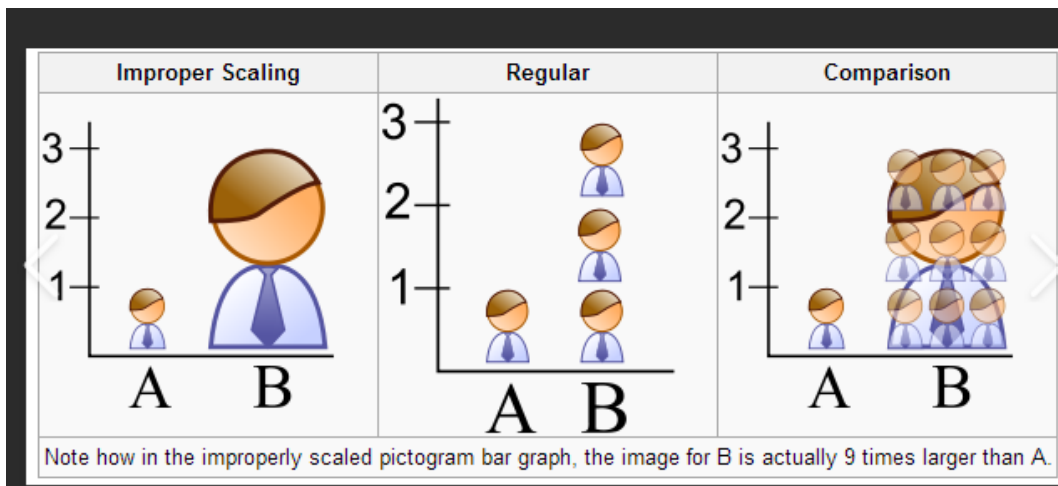
I'm not sure what to say about this graph for the anti-itch cream, Lanacane.



It looks like lanacane works better than regular anti-itch cream, right? Note the lack of labels. What is this graph actually telling us? Pretty much nothing at all other than their statisticians are very good at making not-very-good graphs.



What is wrong here? (Pie charts should add to 100%)



Class/Homework

From last day finish
page 401 # 6, #7, #8, #9, #10, #11, #14

If done work on

Extra practice 1 & 2 Unit 7



Attachments

unit07_extra 1 and 2 just sheets.pdf