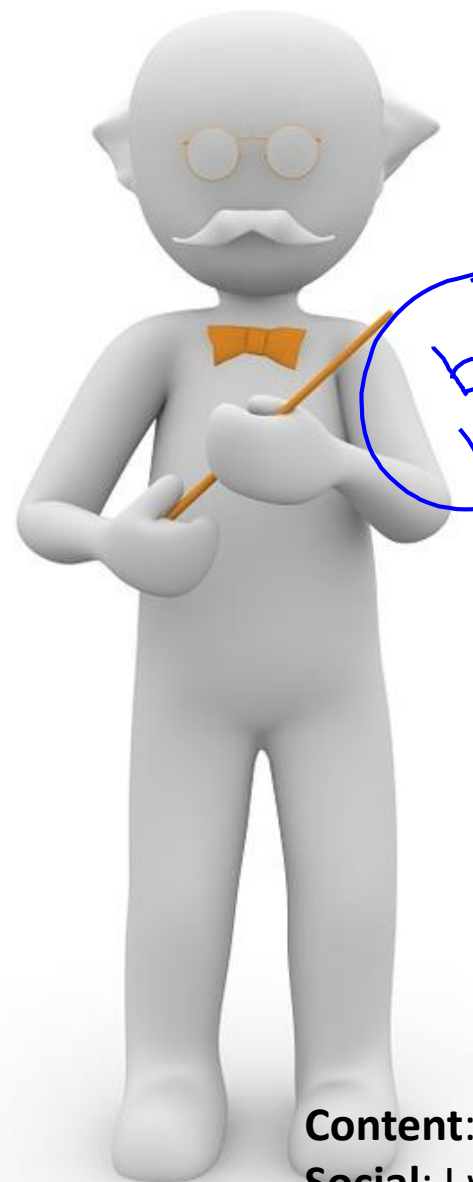


Tuesday, August 28, 2018



- **Warm-up**

- Using the professor data from the other day, make parallel (side by side with same scale) box plots

- **Comparing Distributions**

- **Practice**

Ratings for Professor I

65

66

67

68

71

73

74

77

77

77

Ratings for Professor Q

42

54

58

62

67

~~72~~

77

77

85

93

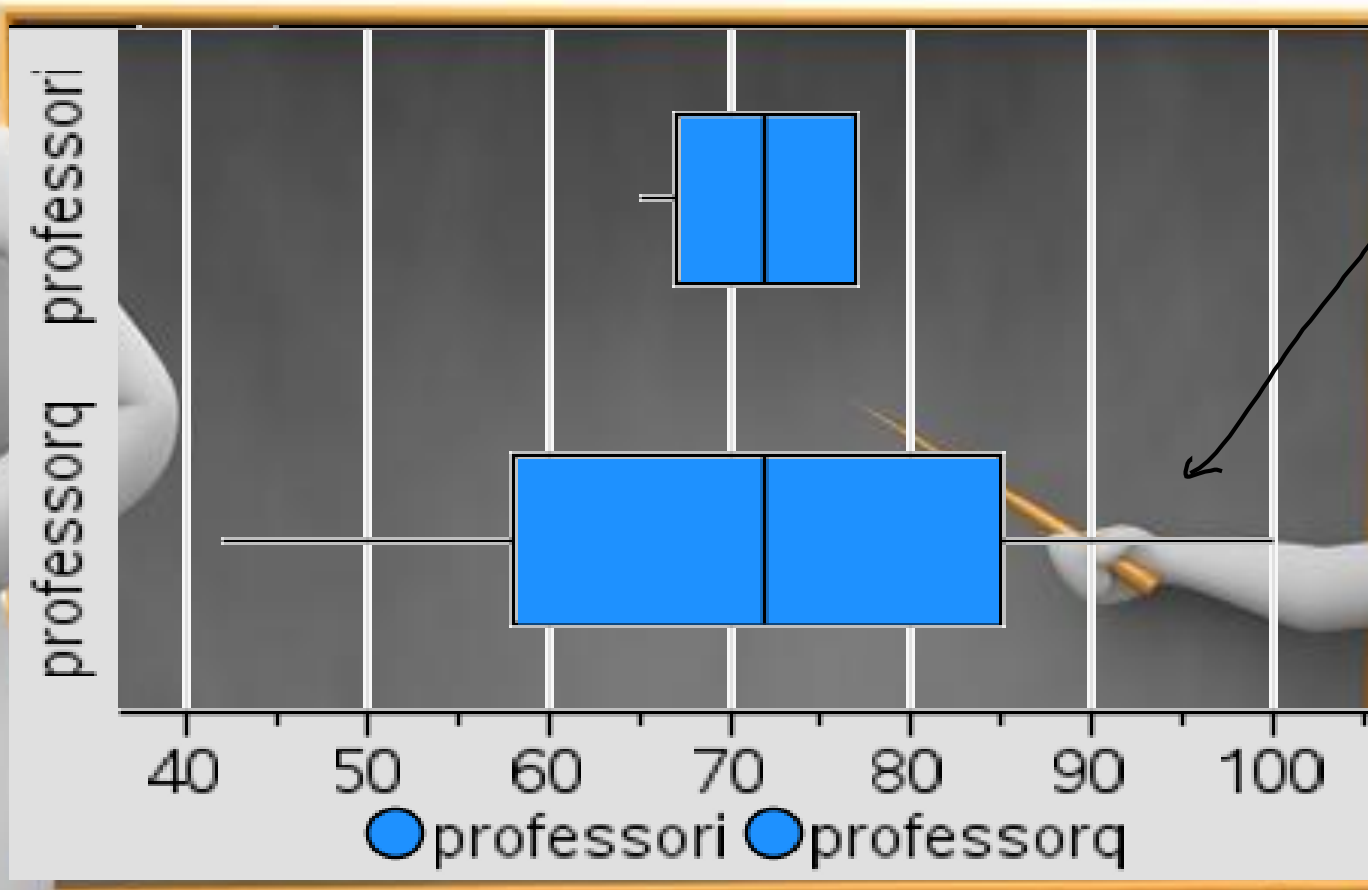
100

Objectives:

Content: I will write clear comparisons of distributions.

Social: I will follow behavioral expectations during FRAPPY.

Language: I will use appropriate vocabulary in written descriptions of distributions.



$IQR = 27$
 $Q3 + 1.5 IQR$
 $85 + 1.5(27)$
 125.5
 $Q1 - 1.5 IQR$
 $58 - 1.5(27)$

Objectives:

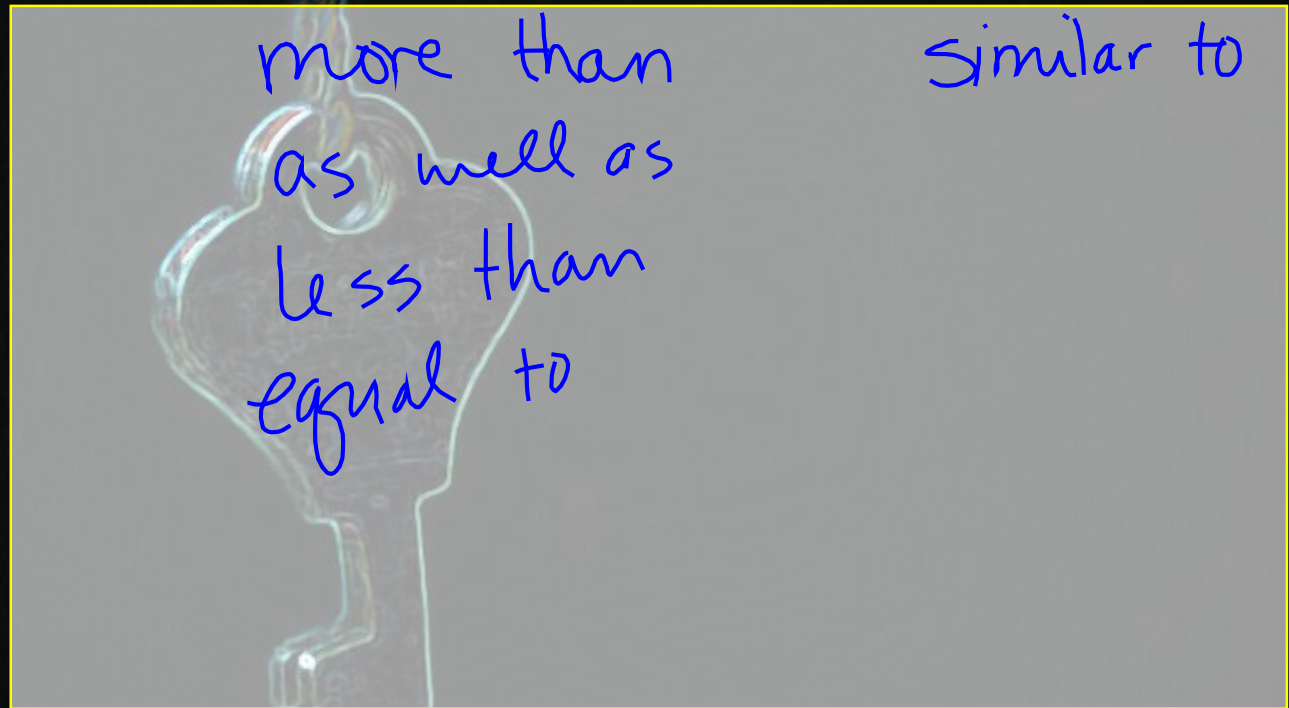
- Content:** I will write clear comparisons of distributions.
- Social:** I will follow behavioral expectations during FRAPPY.
- Language:** I will use appropriate vocabulary in written descriptions of distributions.

THE KEY TO COMPARING DISTRIBUTIONS

Using comparative words

C
U
S
S

Be Specific



Objectives:

Content: I will write clear comparisons of distributions.

Social: I will follow behavioral expectations during FRAPPY.

Language: I will use appropriate vocabulary in written descriptions of distributions.

BRONCOS

DENVER



when all increase by a constant

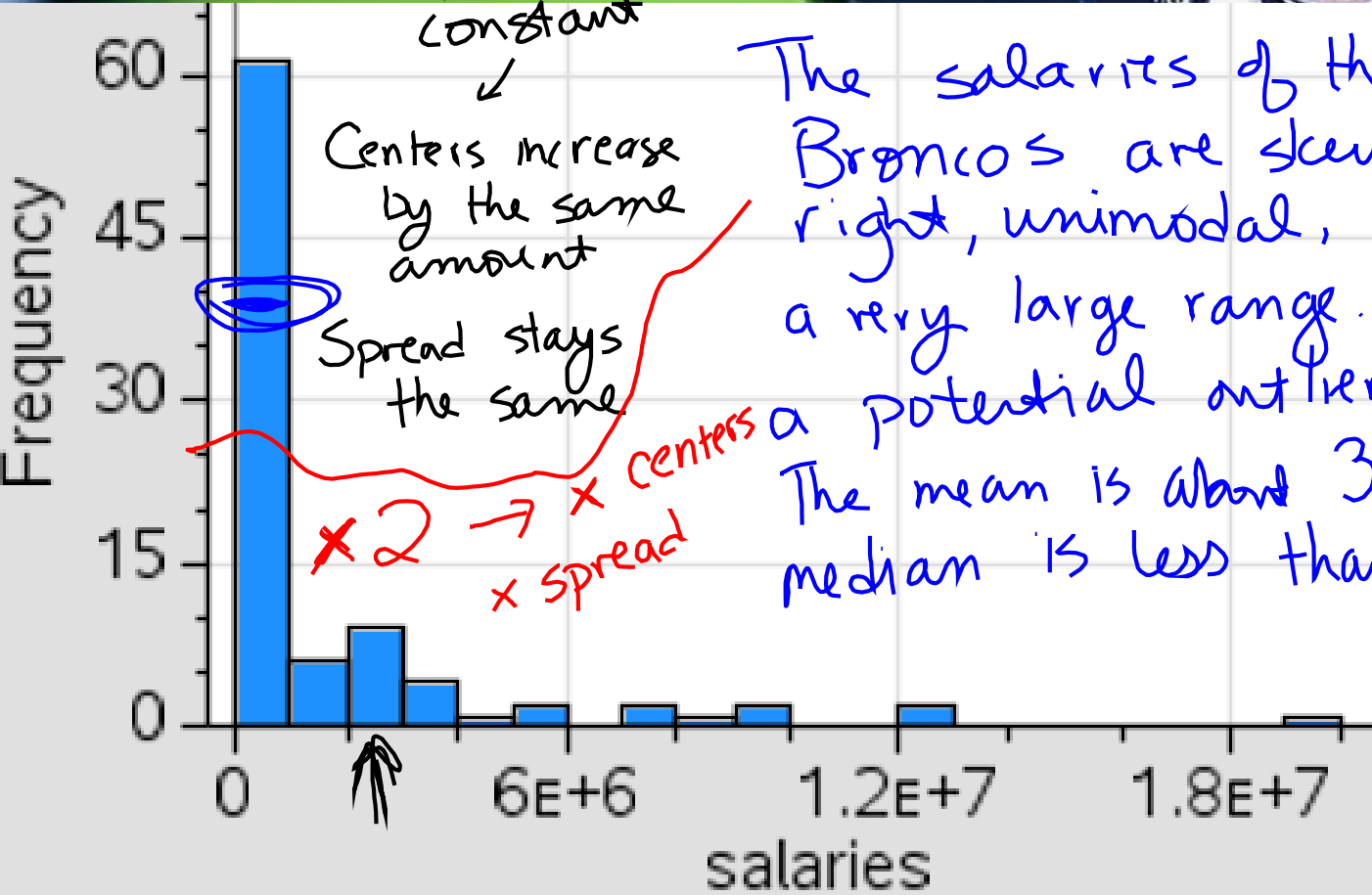
Centers increase by the same amount

Spread stays the same

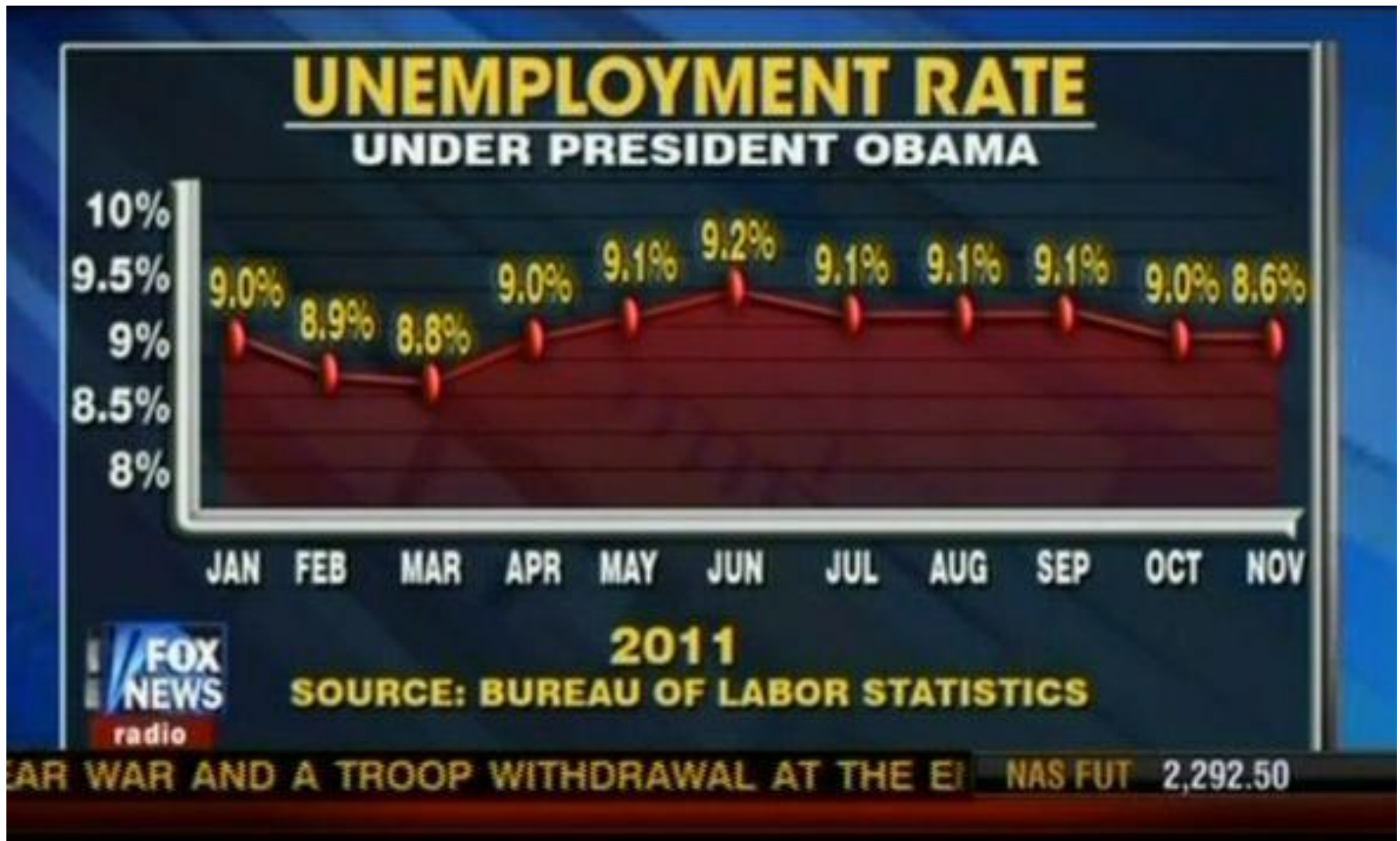
$\times 2 \rightarrow \times$ centers
 \times spread

The salaries of the Denver Broncos are skewed to right, unimodal. There is a very large range. There is a potential outlier beyond 18 million. The mean is about 3 million. The median is less than 1 million.

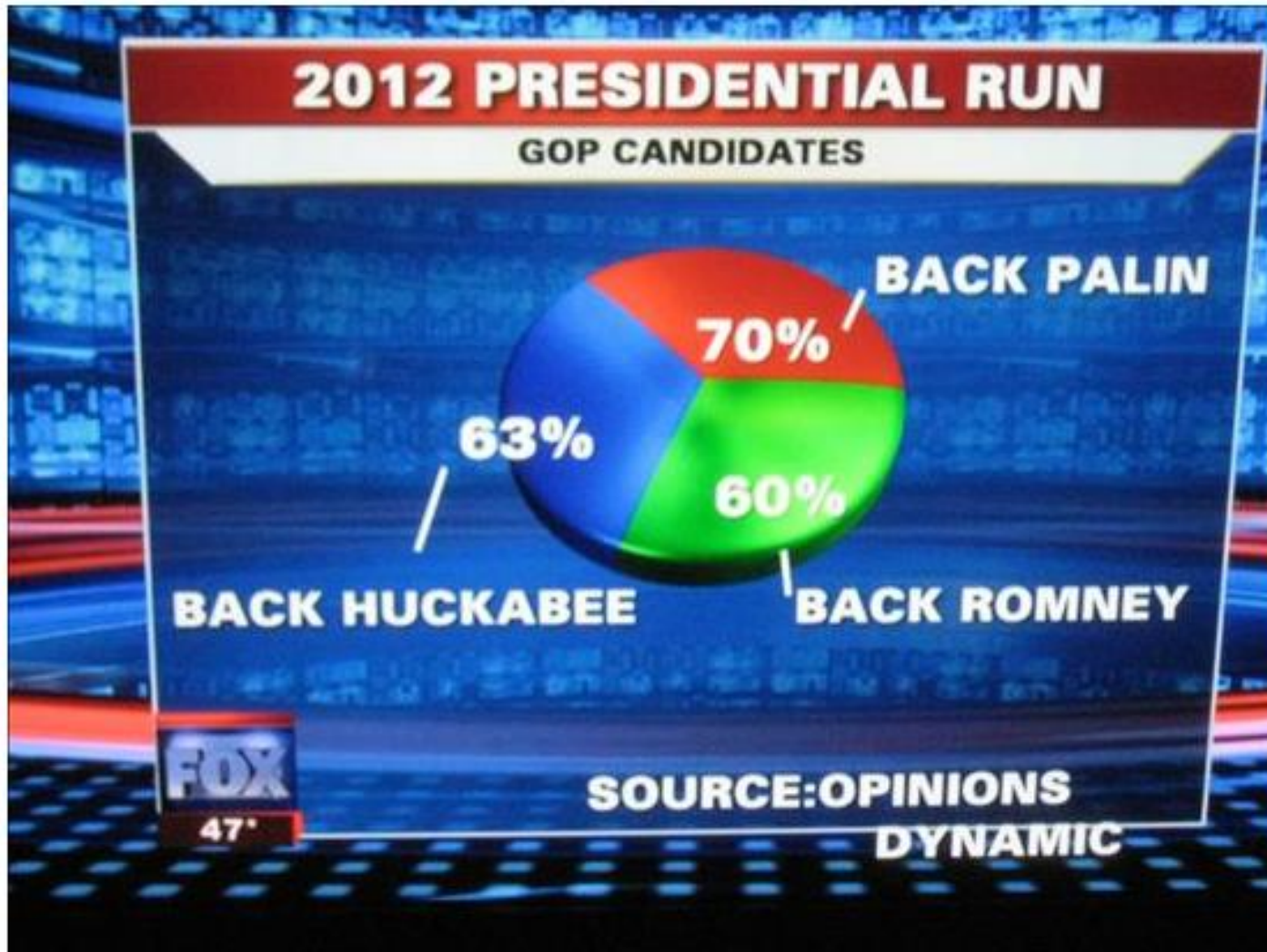
1 10
2 20



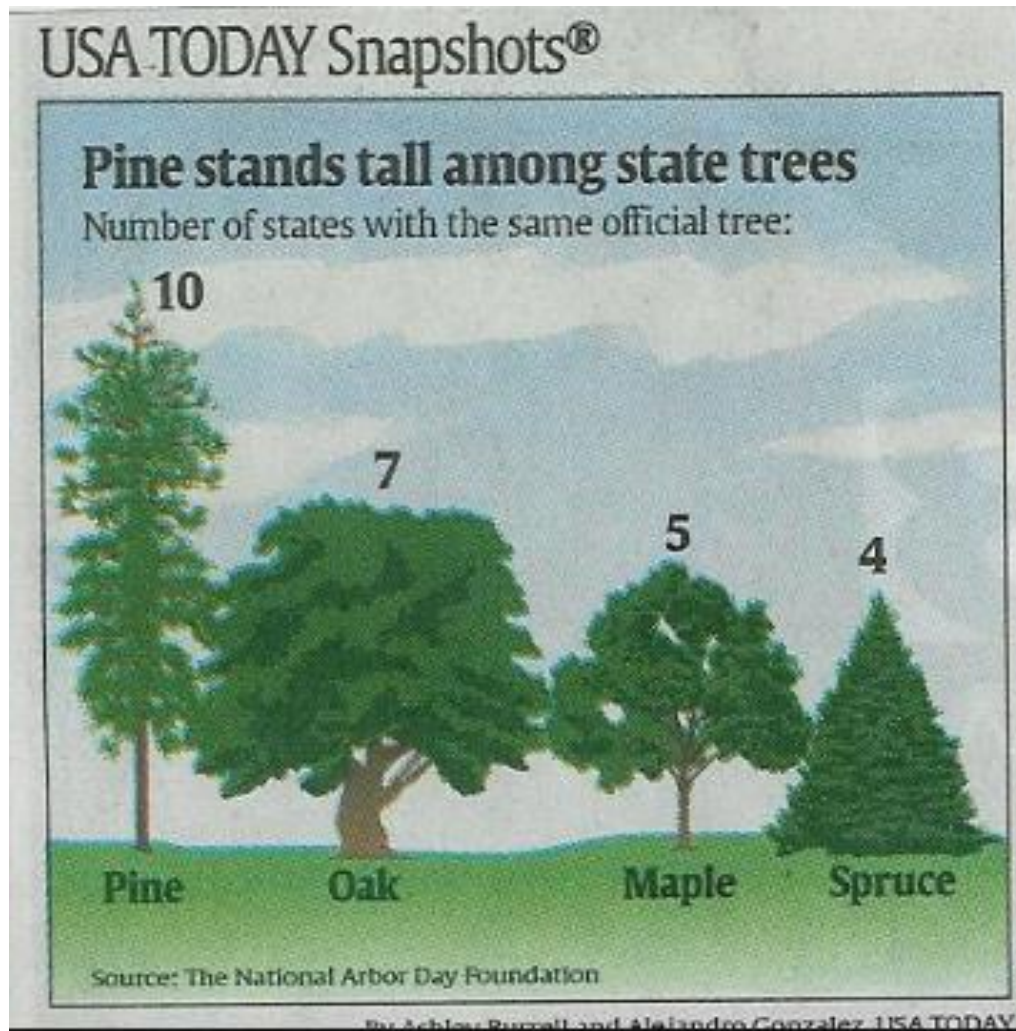
How can we make graphs misleading?



How can we make graphs misleading?



How can we make graphs misleading?



Homework
Page 97 (13-16)