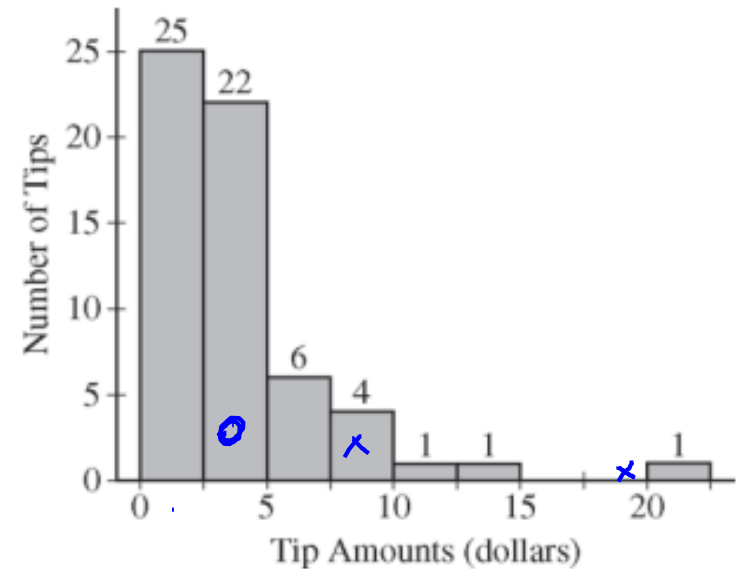


# Friday, August 24, 2018

- Warm-up
  - Robin works as a server in a small restaurant, where she can earn a tip (extra money) from each customer she serves. The histogram shows the distribution of her 60 tip amounts for one day of work.




- One of the tip amounts was \$8. If the tip had been \$18, what effect would the increase have had on the

- Mean? *Raise it*
- Median? *Will not change*

- Check Homework
- Stem Plots, Box Plots and Histograms by hand

## Objectives

- Content: I will create accurate stem plots, box plots and histograms by hand.
- Social: I will participate in the data collection in class.
- Language: I will clearly write the process in my notes so that I can use them this year.

A woman is shown underwater, looking upwards with her eyes closed. She has a purple bikini top and a smiley face sticker on her left cheek. Bubbles are rising around her. The background is a clear blue water.

We need to  
gather some data

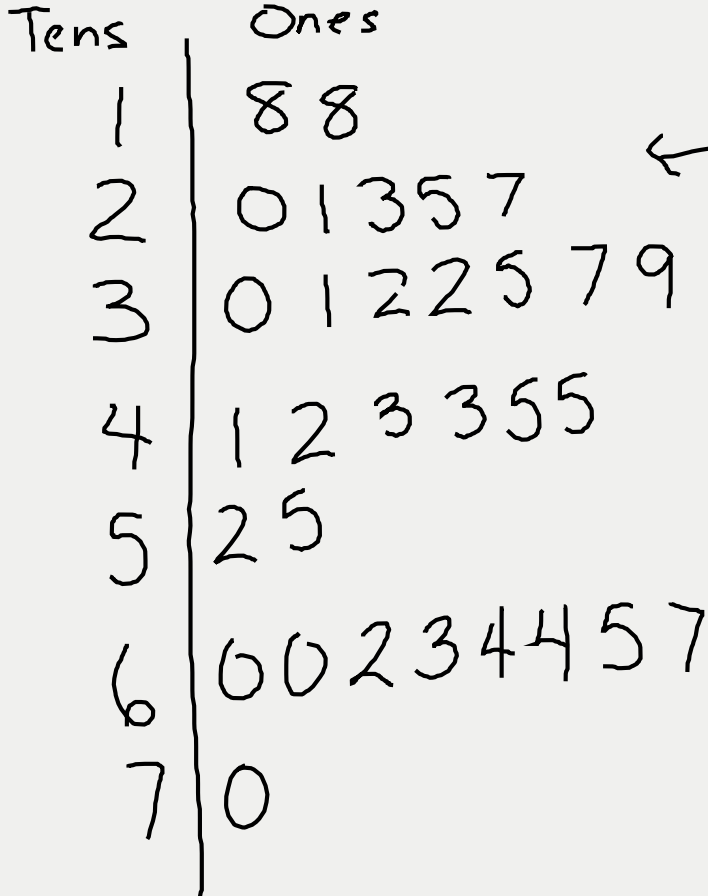


Seconds

### Objectives

- Content: I will create accurate stem plots, box plots and histograms by hand.
- Social: I will participate in the data collection in class.
- Language: I will clearly write the process in my notes so that I can use them this year.

# Stem & Leaf Plot



← one digit at a time

key:  
 $2|1 = 2|$



# Box Plot

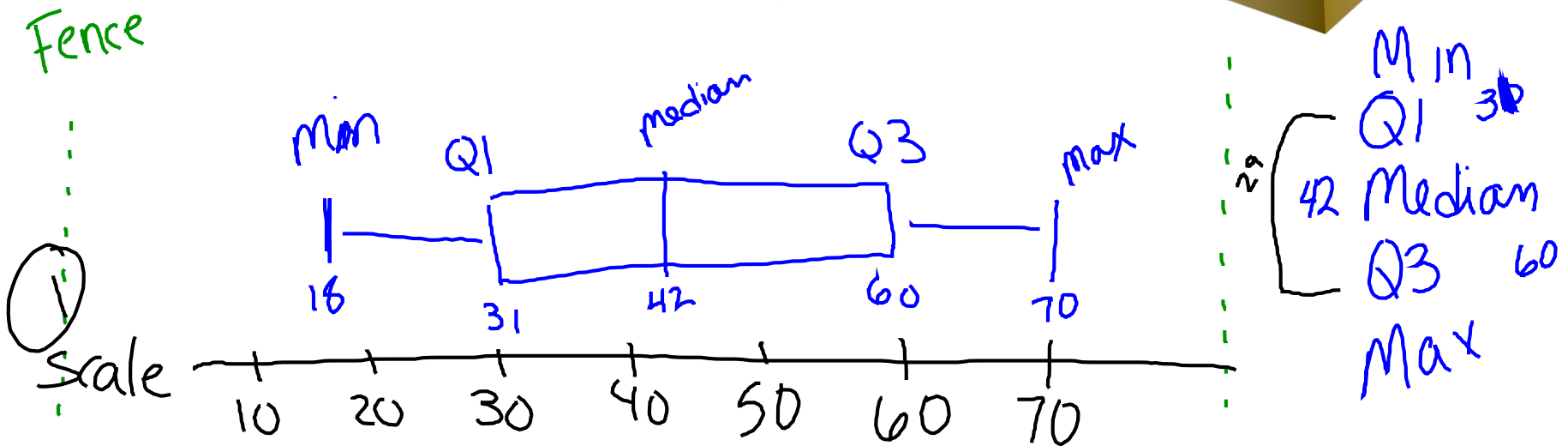
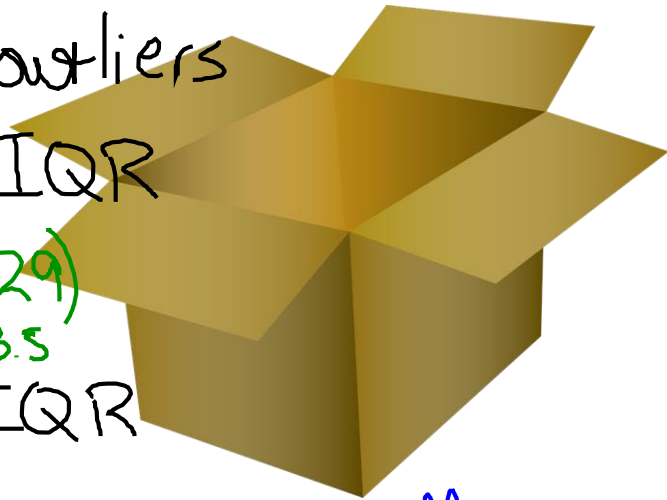
Fences = define outliers

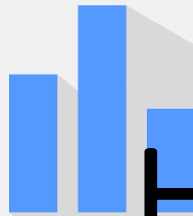
$$Q1 - 1.5 \cdot IQR$$

$$31 - 1.5(29)$$

43.5

$$Q3 + 1.5IQR$$





# Histogram

# Homework

P 76 (36, 40  
+ box plot of data)

