Statistics: Dot Plots, Frequency Tables, Histograms, and **Box and Whisker Plots**

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									x	x	
									X	X	
							X		X	X	
							Х		χ	x	
		X					X	Х	χ	x	
28	29	30	31	32	33	34	35	36	37	38	

Dot Plots/Line Plots

- Describe the data by its center. Mean - 546-15=36.4 Median - 37 Mode - 37 mo 38
- Is there an outlier and if so, how will this impact the measure of central tendency used to describe the center?

30, USE THE MEDIAN

- Describe the data by its spread. Range - 38-30=8 MAD - 22 = 17 = 1,47
- Describe the data by its shape. Cluster - 35-38 Gap - 31-34 Outlier - 30

Frequency Tables

The data represented in the table below was taken from a poll of students when asked how many absences they had in 5th grade.

Complete the frequency table below:

Student Absences for 2008-2009 School Year

0-4	//	2
5-9	111/11/	8
10-14	///// /////	16
15-19	////	4

24 STUDENTS

Report:

- What are the intervals in the frequency table to the left? 5
- What is the scale in the frequency table to the 0-19

Analyze:

- What is the difference in interval 15-19 and interval 10-14? 10-9=6
- How many times greater is the frequency of interval 5-9 than interval 0-4?

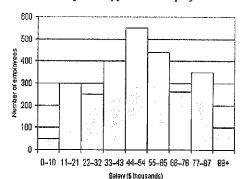
4 TIMES GRENTEA

Predict:

Predict the frequency of interval 15-19 if there were 100 students surveyed

Histograms

Salaries for Krispy Kreme Employees



Report:

- What is the scale and interval in the histogram to the left? Scare = 0-88+ INTERVEL = 11
- . How many people make between \$77,000 and \$87,000 per year?

350 PEOPLE

Analyze:

- What is the difference in the number of employees in interval 44-54 and interval 33-43? 550 -400 = 150
- How many times greater is the frequency of interval 55-65 than interval 0-10?

Predict:

Predict the frequency of interval 22-32 if the company tripled in size.

