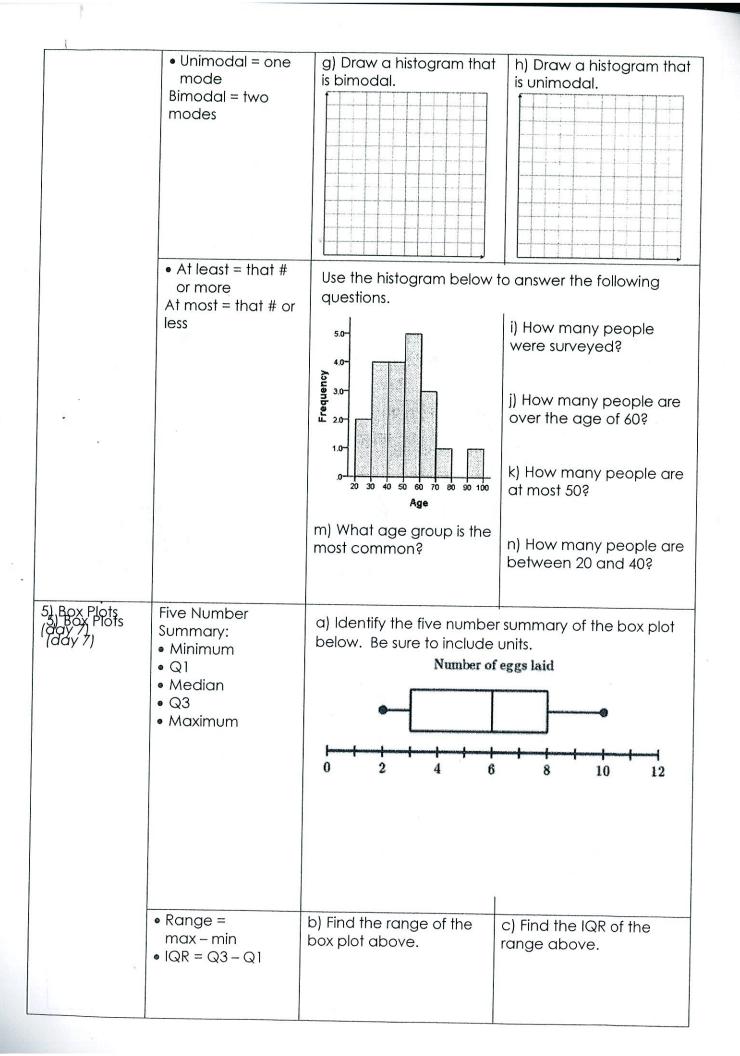
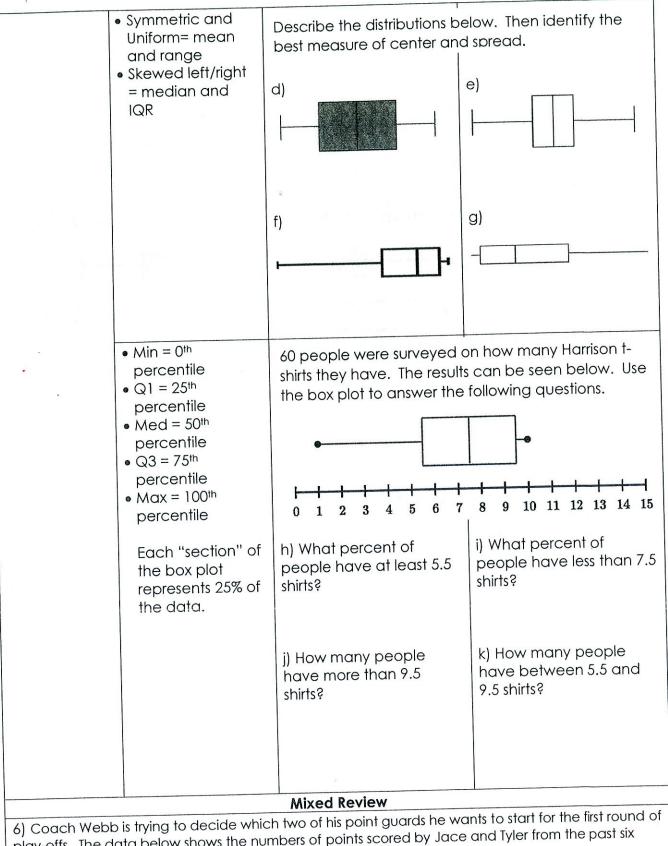
Topic	Things to Remember	Practice					
1) Two Way Frequency Tables (day1 notes)	 Joint frequencies: inside cells Marginal frequencies: outside cells 	a) Fill in the	High School Diploma	Bachelor's Degree	Master's/ Doctoral Degree	Total	
Holesj	(totals)	Male .	16	46		65	
		Female		51	3		
		Total	28		6		
D 200/ 8 to	To create relative frequencies, divide each frequency by the grand total – round to the nearest hundredth	b) Create a two way relative frequency table based on the two way frequency table above.					
ever bridge the second of the	 How many = whole number Probability = decimal rounded to nearest hundredth Percent = percent (be sure to include % with answer) 	Use either table above to answer the following questions. c) How many people have a high school diploma? d) What percentage of people surveyed were female? e) What is the probability that a person has a Bachelor's Degree? f) What is the total number of people surveyed?					
	 Conditional probability key words: "if", "given that", "what percent of", etc. You will need to divide a joint frequency by a marginal frequency See above for how answers should look 	Use either table above to questions. g) If a person is male, what is the probability that they have a Master's Degree? i) What percent of people with Bachelor's Degrees are female?			h) What percent of people with high schoo diplomas are male? j) Given that a person is female, what is the probability that they have a high school diploma?		

2) Measures of Center and Spread (day 4 notes)	Measures of Center: mean, median, mode, Q1, Q3 Measures of Spread: range, IQR, MAD When finding measures of center/spread by hand, order from least to greatest first The smaller the	For the data sets below, fir mode, Q1, Q3, range, and a) 30, 27, 24, 32, 40, 26, 37, 31, 27 Mean = Median = Mode = Q1 = Q3 = Range = IQR =	b) 3, 9, 5, 6, 1, 7, 1, 9 Mean = Median = Mode = Q1 = Q3 = Range = IQR =	
	MAD, the more consistent the data.	c) Data set A has a MAD of 12.5 and data set B has a MAD of 8.92. Which data set is more consistent? d) Class A's last quiz grades had a MAD of 4.25 and Class B's last quiz grades had a MAD of 4.29. Which class was less consistent?		
TO BE SHOWN	 Outliers are data values that are very small or very large compared to all other data values. No outliers = mean and range Outliers = median and IQR 	Determine whether the do outliers; if they do, identify find the best measure of c e) 50, 45, 49, 53, 51, 52, 40, 46, 48, 58, 25 Measure of Center: Measure of Spread:	them. Then identify and	
3) Box Plots (day 5)	Symmetric and Uniform= mean and range Skewed left/right = median and IQR	Describe the distributions to find the best measure of content of the best measure of content of the best measure of content of the best measure o		

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	Unimodal = one modeBimodal = two modes	i) Draw a dot plot that is unimodal.	j) Draw a dot plot that is bimodal.		
					
	 At least = that # or more At most = that # or less 	Use the dot plot below to answer the following auestions.			
		0 1 2 3 4 5 6 7	k) How many people scored at least 3 goals?		
		number of goals Scored m) How many people scored less than 6 goals?	I) How many people scored between 2 and 5 goals?		
4) Histograms 4) Histograms (day 5) (day 5)	Symmetric and Uniform= mean and range Skewed left/right = median and IQR	Describe the distributions below. Then name the best measure of center and spread.			
		Histogram with 'auto' bins	Countries represented at each festival		
		150 100 50 -4 -2 0 2 4 6 8 10 12	0-5 6-11 12-17 18-23 24-29		
		C) Derum 120 100 100 100 100 100 100 10	d) 45 40 36 30 25 20 16 10 62 08 08 08 08 08 08 08 08 08 08 08 08 08		
	Start by sketching A histogram	Describe what the distribution for each scenario			
	a histogram	below would be.			
		e) A hard Biology test.	f) Outcomes of rolling a die 1000 times		





play-offs. The data below shows the numbers of points scored by Jace and Tyler from the past six games.

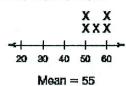
Jace: 11, 11, 6, 26, 6, 12

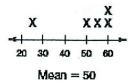
Tyler: 15, 12, 13, 10, 9, 13

Who do you think Coach Webb should select as a starting player and why?

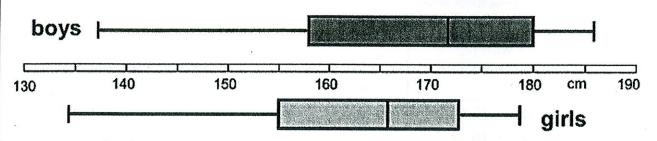
7) Which data set will have the greater mean absolute deviation? Why?

Set 1: 50, 50, 55, 60, 60





8) Determine whether the statements below are true or false based on the box plots below.



- a) The girls are taller on average. _____
- b) The shortest person is a boy. _____
- c) The tallest person is a boy. _____
- d) Both data sets are skewed to the left. _____
- e) Girls have a smaller IQR. _____