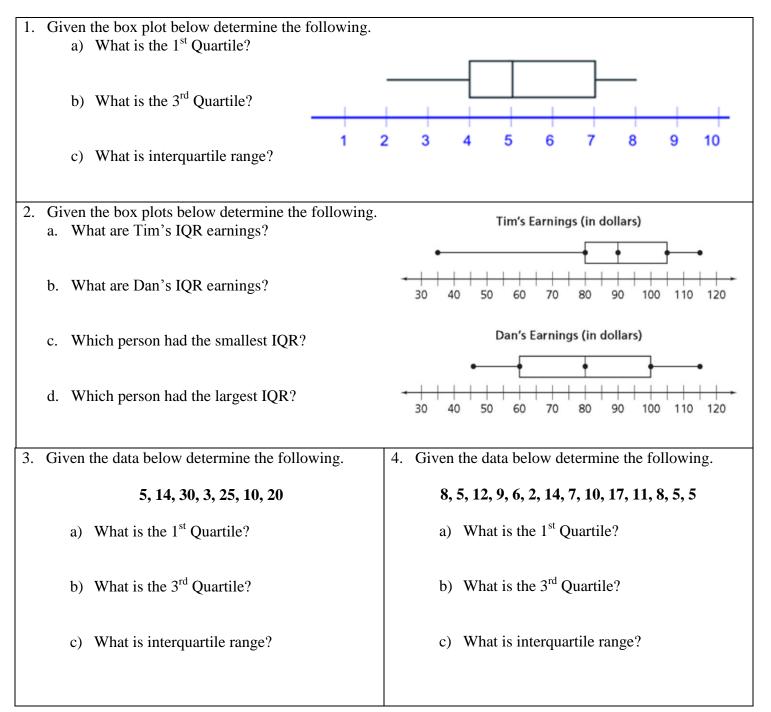
Name:		
UNIT 4		

Date:

LESSON 4

Do Now: The grades in Ms. Cronin's math class were as follows. Construct a box plot for this data. 65, 72, 78, 96, 85, 75, 87, 86, 80, 92

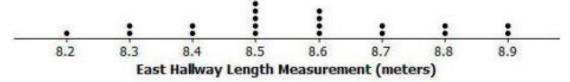
AIM: Finding Interquartile Range & Interpreting Dot Plots



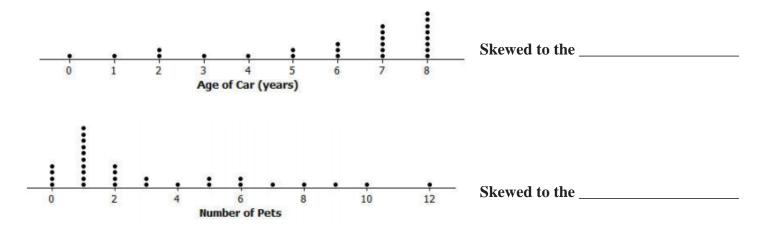
5. Given the box plots below determine the following.a. What do you think those four stars represent?b. Estimate these values.		******					
	0	20	40 Age	60 (years)	80	100	
: A value that "lies the other values in a set of data.	outside	e" (is mu	ich smaller	r or larger	than) mo	st of	
For example in the scores 25 , 29 , 3 , 32 , 85 , 33 , 27 , 28 both _		and	a	re " <u>outlier</u>	<u>rs</u> ".		
6. Given the data below determine the outlier. 7.	Given	n the data	a below de	termine th	he outlier.		
74, 80, 81, 5, 88, 91, 93, 98	24,	34, 3	74, 38,	44, 53,	75, 83,	85	
A dot plot provides a graphical representation of a data dist	tributio	on, helpii	ng us to vi	sualize th	e distribut	tion.	

The <u>mean</u> and the <u>median</u> of the distribution are numerical summaries of the center of a data distribution.

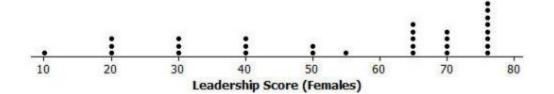
Example#1: When the distribution is nearly symmetrical, the mean and the median of the distribution are approximately equal. . For symmetrical distributions, the mean is an appropriate choice for describing a typical value for the distribution.



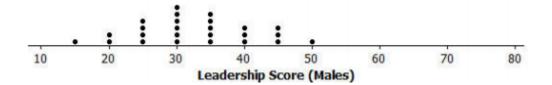
Example#2: When the distribution is not symmetrical (often described as skewed), the mean and the median are not the same. For skewed data distributions, the median is a better description of a typical value.



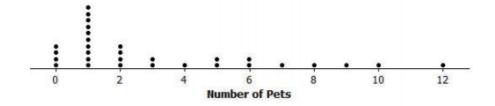
8. What is a typical score for a female user? Explain your answer.



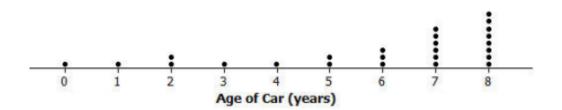
9. What is a typical score for a male user? Explain your answer.



10. What is a typical number for a pets? Explain your answer.



11. What is a typical for age of cars? Explain your answer



HW#___

Date: _____ LESSON 4

- 1. Consider the data set: 1, 12, 14, 14, 15, 16, 24, 38
 - a. What is the value of Q1?
 - b. What is the value of Q3?
 - c. What is the IQR of this sample?
 - d. Are there outliers?
- 2. Given the box plot below determine the following.
- a) What is the 1st Quartile?
- b) What is the 3rd Quartile?
- c) What is interquartile range?

3. The accompanying diagram shows a box-and-whisker plot of student test scores on the Science midterm. a. What is the interquartile range for these scores?

b. What is the percentage of students who scored 70% to 85%?

c. What is the percentage of students who scored an 85% or higher?

4. What is the typical for number of books read? Explain your answer

