Algebra 1/2

Use this data set of amount of YouTube views of 10 randomly selected videos from Portugal the Man (in millions): 3, 3, 4, 4, 5, 7, 9, 11, 14, 17			
Measures of Center			
In your own words, describe how to find the mean , then find the mean. Description:	In your own wor to find the medi median. Description:	ds, describe how an , then find the	In your own words, describe how to find the mode , then find the mode. Description:
Calculated mean:	Calculated med	ian:	Calculated mode:
Graphs			
Create a dot plot of the data and then a box plot above it on the same number line.			
Description of Distribution			
Describe the shape of the distribution? (symmetrical or skewed). How do you know?	Describe how to use the TI-84 calculator to calculate the standard deviation , then calculate it. Description:		Describe how to calculate the Interquartile Range, then calculate it. Description:
	Calculated SD:		Calculated IQR:
Analysis of Distribution			
Which measure of center is a <i>typical</i> number? Explain.		Which measure of variability best describes the distribution (SD or IQR)? Explain.	

Analysis of Graphs

1. Distribution of family income in the US

i. Shape of distribution:

ii. Estimate of mean:

iii. Estimate of standard deviation:

iv. Would the mean or median be a better measure of center?

v. Would the standard deviation or the interquartile range be a better measure of variability? Why?





- a. Did one city have a higher IQR? Explain what this means in terms of their variability.
- b. Which percentage of bills were over \$160 for each city? Why do you think this is important to the utility company/residents?
- c. Estimate which city had the higher mean. Explain how you came up with your answer.