Normal Distribution/Empirical Rule/Z-Scores Definitions and Concepts

	be approximately normal, skewed left, or skewed right.
	 a. 12, 11, 15, 13, 28, 9, 33 b. 70, 65, 75, 72, 65, 71, 69 c. 88, 90, 80, 92, 87, 2, 66
2.	Why is the Empirical Rule sometimes referred to as the "68-95-99.7 rule"?
3.	In words, describe what a z-score represents.
4.	If $z = 2.21$, is our x value on the left or right of a normal distribution? What if $z = -6.68$?
5.	If we obtain a z-score and look it up on a z table, does the number we get from the table represent the area under a normal curve to the left of our z-score, the probability of getting an x value to the left of our z-score, or are those two options identical?

1. Determine the median and mean of the following data sets and describe if the distribution would

6.	Draw a normal curve with μ =50 and σ =8, including the numbers at ± 1 , ± 2 , and ± 3 standard deviations from the mean and the percentages under the curve between standard deviations.
7.	If μ =88, o=15, and z=1.12, what x value gave us that z-score? Start by stating the z-score formula.
8.	If $z = 3.29$, without looking at a z table, do you think the area to the right of this z value with be very large or very small?
9.	Without looking at a z-table, which of the following would be larger: a. The percentage to the left of $z=-1.02$ or to the right of $z=2.01$? b. The percentage to the right of $z=-2.57$ or to the left of $z=0.41$? c. The percentage to the left of $z=2.89$ or to the left of $z=-3.07$?