Bio 260 (Sp14) Provide answe Write clearly to	Assignment #5 Form A, <b>Due FEB 20</b> Name: rs only in space provided, do not attach additional sheets. ensure full credit for your answers. Write the first letter of your surname ir	ו box above	e.	
(1) For the follo Report the ans	wing questions, consider a data set that exhibits a normal distribution. wers to the nearest 0.01%.			
(a) Hov	w much of the data lies below the value corresponding to Z = 1.1?			%
(b) Hov to Z = 5	w much of the data lies between the values corresponding 1.1 and Z = 1.3?			%
(c) How to Z = -	v much of the data lies between the values corresponding 1.1 and Z = 1.3?			%
(2) For the follo Report the ans	wing questions, consider a data set that exhibits a normal distribution. wers to the nearest 0.01.			
(a) Wh	at is the Z score for the value that is larger than 20.9% of the data?		Z = _	
(b) Wh	at is the Z score for the value that is smaller than 11.9% of the data?		Z = _	
(c) Cor If we c the upp	nsider a portion of the data bounded above and below by certain Z scores. onsider a region bounded below by Z = 0.4, what is the Z score of per bound if the region contains 23.9% of the data?		Z = _	
(3) Consider a	set of 900 of normally distributed data values with a mean of 25 and a sta	ndard devia	ation of 5.0	
(a) Hov (report	w many values are larger than 27.00 answer to the nearest integer)		# =	
(b) Hov (report	w many values are between 23.00 and 28.00? answer to the nearest integer)		# =	
(c) Wh (report	at is your best estimate for the value of Q3? answer to the nearest 0.01)		Q3 =	
(4) Imagine tha For the followin	t we take a sample from a population of interest. Ig questions use the sample values to the right:	<u>Sample d</u> 16 22	<u>ata</u> 2 7	
Assume that this sample accurately reflects the mean and standard 20 21 deviation of the population so you can use the normal distribution and 16 22 Z scores for the problems below. (If you've read ahead in your book or lab manual you know we should really use t scores, don't worry about this right now, use the Z scores)			, 1 2 es)	
(a) Ass that yo (round	suming that the population data is normally distributed, what is the value u expect 67% of the data in the population to be smaller than? to nearest 0.01)		Val. =	:
(b) Wh (round	at is your best estimate for the IQR of the population data? to nearest 0.01)		IQR =	=