Galaxy Hunter Travelogue

1. What method	od, if any, did you	use to select y	our sample of galaxies?
2. Record you below.	ır data from the H	DF- N or S (circ	cle one) in the table at left,
Туре	Frequency	Percentage	Actual Result For
Elliptical			Percentage of Irregulars
Spiral			
Irregular			
difference?			think accounts for this
4. Define bias			
	our current know galaxies described		method of selecting the piased? Explain.

6.	If a computer randomly chooses a fixed number of galaxies, 5 different times, would you expect it to keep getting the same result for percentage of irregulars each time, since the sample sizes were the same each time? Why or why not?
7.	Compare the positions of the mean and median on any single min/max plot. How would those positions change if the lowest value were zero?
8.	Explain why the variability of sample results approaches zero as the sample size approaches the population size.
9.	Predict a range of acceptable percentages for irregulars based on the length of the min/max bar for your best sample size. The range of percentages for the whole chart is 40% to 100%.

10. Copy the table, making sure you fill in your sample size and the full name
of the HDF you used. Compare your value for the percentage of irregulars
with your predicted range from above.

Galaxy type Your computer sample size: Percentage Elliptical Percentage Spiral Percentage Irregular 11. Now that you know about sample size and bias, do you think the percentage of irregulars in your original sample is within acceptable rof the actual results? Explain. (Your results and the actual value for percentage of irregulars can be found in question 2 above.) 12. State the sample size you will use and explain why you chose this size the sample size you will use and explain why you chose this size the sample size you will use and explain why you chose this size the sample size you will use and explain why you chose this size the sample size you will use and explain why you chose this size the sample size you will use and explain why you chose this size the sample size you will use and explain why you chose this size the sample size you will use and explain why you chose this size the sample size you will use and explain why you chose this size the sample size you will use and explain why you chose this size the sample size you will use and explain why you chose this size the sample size you will use and explain why you chose this size the sample size you will use and explain why you chose this size the sample size you will use and explain why you chose this size the sample size you will use and explain why you chose this size the sample size you will use and explain why you chose this size you will use and explain why you chose this size you will use and explain why you chose this size you will not you should not yo	Percentage Elliptical Percentage Spiral Percentage Irregular 11. Now that you know about sample size and bias, do you think the percentage of irregulars in your original sample is within acceptal of the actual results? Explain. (Your results and the actual value percentage of irregulars can be found in question 2 above.) 12. State the sample size you will use and explain why you chose this			
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14. Comparing the two HDFs, could you say that the universe probably looks the same in these two directions? Explain.
15. Using what you've learned about sample size and bias, could you use the HDFs to make a general statement concerning the uniformity of the universe? Explain.
16. What is the most common type of galaxy in (a) the local universe and (b) the faraway universe pictured in the HDFs?