## Play Ball!\*



Sammy Sosa, Barry Bonds, and Mark McGwire are considered to be three of baseball's best players. On the back of this sheet, each player's runs, hits, and homeruns are given. Your task is to determine which baseball player is the most consistent, which in turn would make him the most reliable for your team.

Using box plots, you will analyze the three player's statistics and draw a conclusion based on your plots.

This assignment will count as a grade and is due: \_\_\_\_\_\_

**Step One:** To analyze the data, you will create a total of 9 box plots. You will compare the box plots for runs, hits, and homeruns separately. You can compare box plots by stacking similar plots on top of each other. If these directions are unclear, you can refer to the examples from class.

**Step Two:** When choosing the most consistent player, you should support your answer using terms we've learned in class (skewed, center, mean, median, mode, outliers, standard deviation, etc.) Give your reasoning in a one paragraph summary.

If you finish in 10 minutes you've done something wrong. This assignment should take you a good amount of time if done correctly.

\*Your opinion on steroid use by professional athletes is important to me but should not be included in this assignment. The objective is to find the best player using mathematical tools. Thank you.

Barry Bonds			Sammy Sosa			Mark McGwire		
Runs	Hits	Homeruns	Runs	Hits	Homeruns	Runs	Hits	Homeruns
72	92	16	27	47	4	10	10	3
99	144	25	72	124	15	97	161	49
97	152	24	39	64	10	87	143	32
96	144	19	41	68	8	74	113	33
104	156	33	92	156	33	87	123	39
95	149	25	59	128	25	62	97	22
109	147	34	89	151	36	87	125	42
129	181	46	84	136	40	16	28	9
89	122	37	90	161	36	26	34	9
109	149	33	134	198	66	75	87	39
122	159	42	114	180	63	104	132	52
123	155	40	106	193	50	86	148	58
120	167	37	146	189	64	130	152	70
91	93	34				118	145	65
129	147	49				60	72	32
129	156	73				48	56	29