Your Name: _____

Names of people you worked with: _____

Instructions: Work on this problem in class with your group. Do your best. This piece of paper will be collected during class.

Task: Consider the following two datasets. For each one, create 5 different bootstrap samples. For dataset A, calculate the sample mean for each bootstrap sample. For dataset B, calculate the sample proportion of happy for each bootstrap sample.

  Data A: 4, 10, 8, 1, 2, 4

  Data B: happy, happy, sad, happy, sad, happy

Solution:

  Data A: Five possible bootstrap samples are as given.

#	resamples						mean
1:	2	4	4	4	4	2	3.33
2:	1	2	2	1	8	8	3.67
3:	1	4	2	10	2	10	4.83
4:	2	8	4	8	4	4	5.0
5:	2	2	1	4	2	2	2.17

  Data B: Five possible bootstrap samples are as given.

#	resamples						proportion happy
1	happy	happy	happy	happy	happy	happy	1.0
2	sad	happy	sad	happy	sad	happy	0.5
3	sad	happy	happy	happy	happy	happy	0.83
4	happy	sad	sad	happy	happy	sad	0.5
5	happy	sad	sad	happy	happy	sad	0.5