You have until 8:25am to complete this part of the assignment.

Form groups of 4. Each group of 4 should pick one research question about The Islanders. Write your question at the top of your poster and answer the following questions:

1. Are you trying to estimate a parameter or test a hypothesis?
2. Is this an survey, observational study or an experiment?
3. What will you measure or ask? Are those variables numerical or categorical?
4. How will you pick your participants? Approximately how many participants?
5. Who will you be able to generalize your results to? (Old Islanders, Young Islanders, Sick Islanders, All Islanders, Islanders in only one part of the Island,.... )
6. If you are testing a hypothesis, write a null and alternative hypothesis. If you are estimating a parameter, which parameter are you estimating?

FOR QUESTION 6: Because we have not really talked about writing a null and alternative hypothesis, here are some examples. The $H_0$ part is for no association/independence or no effect. The $H_A$ part is for association/not independent or some effect.

1. Do Islanders who left a relationship in the last 3 months have higher blood pressure?
   $H_0$ : Blood pressure is independent/ not associated with leaving a relationship.
   $H_A$ : Blood pressure is not independent/ is associated with leaving a relationship.

2. Do sugar tablets raise blood glucose more than cola?
   $H_0$ : Sugar tablets and cola have the same effect
   $H_A$ : Sugar tablets raise blood glucose more than cola

You should also start writing the parameter you are estimating with the correct symbols:

1. What proportion of Islanders have black hair? We are estimating $p$ - the proportion of all Islanders with black hair.

2. What is the average blood glucose for Islanders? We are estimating $\mu$ - the average blood glucose for all Islanders.