

MAT 112 Spring 2018

Quiz 8

Name: _____

Show all work clearly and in order, and circle your final answers. Justify your answers.

PROBLEM ONE Suppose you want to estimate a population size by using the Capture-Recapture method. You catch 100 fish and tag them. Several weeks later you catch 50 fish at the same location and 20 are tagged. How large do you estimate the population of fish there to be?

PROBLEM TWO Give an example of a survey and sample method which may suffer from self-selection bias.