Analysis 1. Comparison of means.

For the variables VALUE and TIME, determine whether there is evidence of a difference in mean levels between the categories of EXPERIENCE, AGE OF BOAT, GENERAL EQUIPMENT and SEARCHEQUIPMENT.

Analysis 2. Comparison of means within experience subgroups.

Performing separate analyses for the boats with experienced skippers and for the boats with inexperienced skippers, for the variables VALUE and TIME, determine whether there is evidence of differences in mean levels between the categories of AGE OF BOAT, SEARCH EQUIPMENT and GENERAL EQUIPMENT.

Analysis 3. Estimation of differences in performance parameters.

For each of the comparisons made in Analysis 1 or Analysis 2 construct a 95% confidence interval for the difference in means.

Analysis 4. Comparing probabilities of attaining a high value of catch for experienced and inexperienced skippers.

Determine the median CATCH for all boats and form a binary variable which takes the value high if the value of CATCH is above the median, and takes the value low if it is equal to or below the median. Construct a frequency table of EXPERIENCE versus the binary form of the CATCH variable. Hence, compute the proportion of high catch trips separately for experienced skippers and inexperienced skippers, and construct 95% confidence intervals for the expected probability of a high catch trip for experienced and inexperienced skippers.

Analysis 5. Relationships between categorical factors.

Test whether there is an association between EXPERIENCE, AGE OF BOAT, SEARCH EQUIPMENT and GENERAL EQUIPMENT.