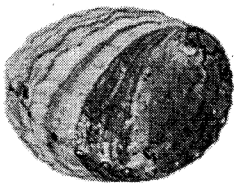
Abalone Data Activity



(Measurements taken by Pearson College Divers on April 10, 1997)

1. All the individuals measured were tagged (numbered) and released in the study area. If in April of 2000, the area is re-sampled, and if 100 animals are recaptured, of which 50 % are tagged individuals, calculate the estimated population size using the Mark- Recapture method. (Show your work.)

2. Calculate the mean (average) of the sample length numbers. (The centimeter sizes of the abalones.)

3. Following the graphing rules, make a graph showing the distribution of the sizes of abalone.

Abalone Data Recorded:

Tagged Abalone#	Length (in Centimeters)
13006	4
13009	5
13012	5
13031	7
13033	7
13044	7
13087	7
13098	7
13099	7
13109	7
13149	7
13212	8
13213	8
13216	8
13233	8
13236	9
13276	9
13298	9
13304	10
13306	10
13307	10

Tagged Abalone#	Length (in Centimeters)
13309	10
13310	10
13311	10
13312	10.5
13313	10.5
13315	11
13316	11
13318	11
13319	11
13318	11
13319	11
13321	11
13323	11
13324	11
13325	11
13330	11
13332	11.5
13335	12
13336	12
13337	12
13339	12
13340	12

Tagged Abalone#	Length (in Centimeters)
13342	12.5
13344	12.5
13345	12.5
13349	13
13351	13
13353	13
13357	13
13358	13
13359	13
13360	13.5
13362	14
13369	14
13372	14
13374	14
13376	14
13380	14
13381	14
13382	15
13383	15
13386	15
13391	15
13392	15
13397	16
13473	16
33888	19