

Math 110 Quiz 8 Spring 2002 NAME:

1. In order to study the need for a day care facility at the University of Southern North Dakota 50 randomly selected married graduate students, staff, and faculty were surveyed to determine the number of small children in their family. The following results were obtained:

1 0 3 1 3 3 2 0 2 2
1 0 3 1 0 1 1 3 0 2
4 3 1 1 3 2 1 2 2 3
2 1 5 2 0 3 1 2 3 0
1 3 1 1 0 0 2 4 5 3

- (a) Find the mean and the median.
- (b) Find the variance and the standard deviation of the sample.
- (c) What percentage of the families lie within one standard deviation of the mean?