

Quiz 4, Math 105

Name:

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25. **Social Science** The number of unemployed workers in the United States in 1988–1993 (in millions) is given below.*

<i>Year</i>	<i>Number Unemployed</i>
1988	6.70
1989	6.53
1990	6.87
1991	8.43
1992	9.38
1993	8.73

- (a) Find the mean number unemployed (in millions) in this period. Which year has unemployment closest to the mean?
- (b) Find the standard deviation for the data.
- (c) In how many of these years is unemployment within 1 standard deviation of the mean?

21. **IQ** The IQs of a large population of children are normally distributed with mean 100.4 and standard deviation 11.6.

- (a) What percentage of the children have IQs greater than 125?
- (b) About 90% of the children have IQs greater than what value?