

# Lab Report: The Central Limit Theorem

Name(s):

## Key Terms

Provide the definitions for the following terms:

- Central Limit Theorem for Sample Means
- standard error of the mean
- Central Limit Theorem for Sums
- Law of Large Numbers

## Means and standard deviations

## Histograms

Histogram of Ages (Original Data):

Histogram of Sample Means for Size 2:

Histogram of Means for Size 5:

Histogram of Means of Size 10:

## Discussion

1. Theoretical Distributions:

n	$\bar{X} \sim N(\mu, \sigma)$	
	$\mu$	$\sigma$
2		
5		
10		

2.

- 3.
- 4.
- 5.