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:

<table>
<thead>
<tr>
<th>n</th>
<th>( X \sim N(\mu, \sigma) )</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>( \mu ) \hspace{2cm} ( \sigma )</td>
</tr>
<tr>
<td>5</td>
<td></td>
</tr>
<tr>
<td>10</td>
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2.