Lab 2I - R's Normal Distribution Alphabet

**Directions: Record your responses to the lab questions in the spaces provided.**

Is the distribution close to normal? Explain how you determined this. Describe the center and spread of the distribution.

Compute the mean difference in the age of the *actual* survivors and the actual non-survivors.

Draw a sketch of a normal curve. Label the mean age difference, based on your shuffles, and the actual age difference of suvivors minus non-survivors from the actual data. Then, shade in the areas, under normal the curve, that are *smaller* than the actual difference.

Were women on the Titanic typically younger than men?

Use a histogram, 500 random shuffles and a normal model to answer the question in the bullet above.