**2.3 Homework**

Listed below are the ages of the 100 US Senators at the time that the 112th Congress began on January 3, 2011.



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| **Age Interval** | **Frequency** |
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a) Create a frequency table for the data. Use 6 bins of size 10 years.

b) Use the frequency table that you created in part (a) to make a histogram that illustrates the data. Use a ruler and label both axes appropriately.

c) Describe the shape of the data. Why do you think this is the case?

d) Estimate the median age of a senator in the 112th congress using your histogram. Explain how you reached this conclusion.

e) Using the *histogram only*, and not the data values on the list on this homework, estimate the maximum possible range of ages and the minimum possible range of ages. Explain.

f) Using the *histogram only*, is it possible to identify the most common age of senators in the 112th congress? Explain.