Homework #1

For a problem that asks you to use R, include a copy of the code and output	For a	problem	that	asks	you	to	use	R,	include a	copy	of the	code	and	output
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1. Consider the following data on the running speed (cm/s) of a certain species of spider:

1.25, 1.64, 1.91, 2.31, 2.37, 2.38, 2.84, 2.87, 2.93, 2.94, 2.98, 3.00, 3.09, 3.22, 3.41

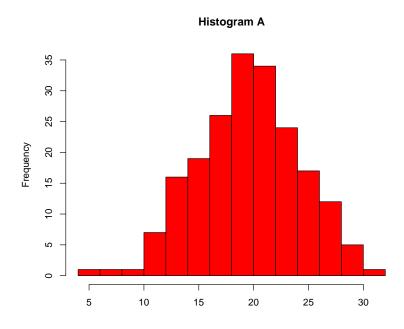
(a) Use R to create a frequency histogram of the data.

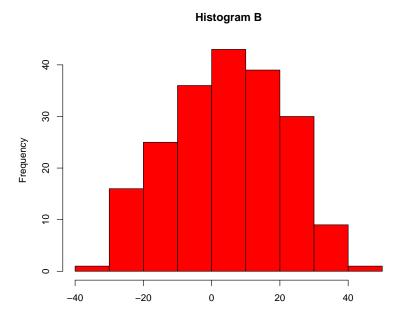
(b) Use a calculator to computer the mean and standard deviation for the data. Make sure to include units. Say what these values mean. Then use R to compute them. Do the answers agree?

(c) Find the three quartiles for the data. Then use R to compute them. Do the answers agree?

(d) Use R to compute the range and IQR for the data.

2. Consider the following two histograms:





- (a) Say which of the two histograms has a larger mean, or if they are about the same. Explain your answer.
- (b) Say which of the two histograms has a larger standard deviation, or if they are about the same. Explain your answer.