## STAT324-1 Homework #1

For a	problem	that	asks	VO11	tο	1150	R	include a	conv	$\circ f$	the	code	and	output
1 O1 a	problem	unau	asirs	you	UU	usc	ъυ,	meruae a	COPy	OI	ULIC	Couc	and	output.

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

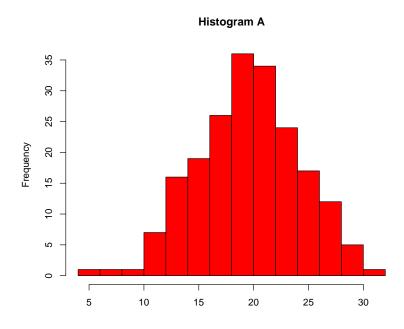
(a) Use R to create a frequency histogram of the data.

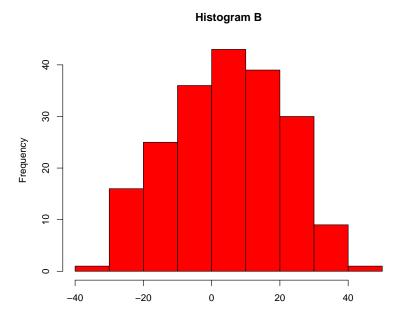
(b) Use a calculator to computer the mean and standard deviation for the data. Make sure to include units. Say what these values mean. Then use R to compute them. Do the answers agree?

(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.