HW 10-2	
Secondary	1.7

Name: _ Date:	Selected	Answers
	Cla	ass:

In problems 1-3 use the following data to answer the questions. Height in inches of 14 college baseball players: 70, 69, 72, 70, 68, 71, 70, 69, 71, 70, 67, 69, 71, 73.

1.) Find the standard deviation, and variance

St. Dev:  $\sigma = 1.5$   $\sigma^2 = 2.25$ 

2. Is there an outlier for the following set? Should you use the mean or median to represent this data

3. Find the 5 number summary and construct a box plot for the data.

Min: 67 Ris 69 Med: 73 (3:71 Max: 73

(4 only) Salaries for employees in one department of the Garcia Brothers Company in thousands of dollars: 33.5, 35.3, 33.8, 29.3, 36.7, 32.8, 31.7, 33.5, 28.2, 34.8, 33.5, 29.7, 38.5, 32.7, 348, 34.2, 31.6, 35.4

4. Determine the 5 number summary, range, IQR, and identify any outliers.

Min: 28.2

Range: 10.3 Cutters: IQR XI.5 LOS that QI - (IQR XI.5)

TOR:

Oreater Do + (IQX XI.5) greater Q3 + (IQL x 1.5)

- (5-7) At a shoe factory, the number of various shoe sizes produced is normally disturbed with a mean of size 9 and a standard deviation of 1.5 sizes.
- 5. What is the probability that a shoe size will be larger than size 10.5 if a supervisor chooses a shoe at random?

6. What is the probability that a shoe size will be smaller than size 6 if a supervisor chooses a shoe at random?

25=95% 100-95%=5% 5% 5% 2= 2.5%

7. What is the probability that a shoe size will be between sizes 7.5 and 12 if a supervisor chooses a shoe at random?

Use the following data to answer questions 8-11

Year	Mark McGwire Home run totals
86	3
87	49
88	32
89	33
90	39
91	22
92	42
93	9
94	9
95	39
96	52
97	58
98	70
99	65
00	32
01	29

8. Find the standard deviation and variance.

(9.) State whether the mean or median is a better measure to use Mean represent the data and why. 6/c No IQR X1.5 = 52.5 autliers Q1-52.5= -37 eNone less Q3+52.5=103 e None greater 10. Create a box plot below to

represent the data.

11. State the IQR and if the data is skewed.

No outliers => Not skewed