	,	
Samo	le	quez
	1	0
E-11 2002		

Math 142 - Fall 2003

Quiz # 2

Section 10.2

Seat:

## Partial credit is based on work shown!

7pts

A student has these scores on her quizzes for this semester.

QI				1		Q3			
	4	5	10	11	11	12	13	14 15	15
That is	ha			Oma 9		in.			

15

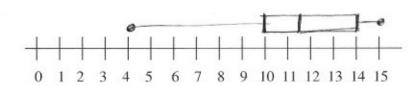
What is her mean score

What is her **median** score? 11.5

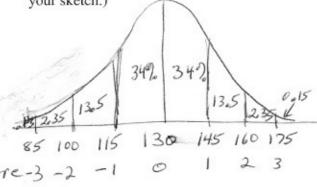
What are the lower and upper quartiles?

Find fences  $1.5(Q_3-Q_1)=1.5(14-10)$ = 1.5(4)=6Lower ferce =  $Q_1-6=10-6=4$ upper ferce =  $Q_3+6=14+6=20$ 

d. Using the scale below, make a box plot with whiskers to show the distribution of the scores.



a. If the average teenage female weighs 130 pounds and the standard deviation of weights in this age group is 15 pounds, draw a sketch of the normal distribution (Include a % in each part of your sketch.)



 Approximately what % of the girl's weights are within two standard deviations of the

$$(13.5 + 34 + 34 + 13.5)$$
  
c. What weight would have a z-score of 2?

- d. A z-score of 2 is what percentile?

50%+34%+13,5% = 97,5% 2pts 3. When comparing test results for two different classes, Mr. Jones determined that class 1 had a mean of 75 and standard deviation of 5 but class 2 had a mean of 80 and had a standard deviation of 9. What does this tell him about these classes?

Only 16% of class above 80

