Math 160 Quiz 3			
Professor Busken		Name	<u> </u>
MULTIPLE CHOICE. Choose the one alterna	tive that best completes the	statement or answers the question	n.
Use the empirical rule to solve the problem.			
 At one college, GPA's are normally distributed with a mean of 2.9 and a standard deviation of 0.6. What percentage of students at the college have a GPA between 2.3 and 3.5? 			1)
A) 68% B) 99.79	% C) 95%	D) 84.13%	
Solve the problem. Round results to the neare	est hundredth.		
2) The mean height of a basketball team is 6.3 feet with a standard deviation of 0.2 feet. The team's center is 6.7 feet tall. Find the center's z score. Is his score unusual?			2)
A) 1.5, no B) 1.7, r	no C) 2, yes	D) 2.2, yes	
rial the second and designing from	the mean Down description	wanto true desimal places	
Find the number of standard deviations from 3) The test scores on the Chapter 7 mat			3)
Andrea scored 89 on the test. How i			nd a street
A) 1.77 standard deviations below		ndard deviations above the mean	
C) 1.77 standard deviations above	the mean D) 0.60 sta	ndard deviations below the mean	
4) In one town, the number of pounds of sugar consumed per person per year has a mean of 6 pounds and a standard deviation of 1.5 pounds. Tyler consumed 13 pounds of sugar last year. How many standard deviations from the mean is that?			
A) 2.33 standard deviations below		ndard deviations above the mean	
C) 4.67 standard deviations above	the mean D) 4.67 sta	indard deviations below the mean	
Find the z-score corresponding to the given v Consider a score to be unusual if its z-score is if necessary.			
5) A time for the 100 meter sprint of 14		the mean time for the 100 meter	5)
sprint is 17.6 seconds and the standa		1	
A) -3.4; unusual	B) 1.6; not D) -1.6; ur		
C) –1.6; not unusual	D) -1.0, til	iusuai	
Determine which score corresponds to the hig	gher relative position.		
6) Which score has a higher relative po		for which $x = 34$ and $s = 9$, or a	6)
score of 270 on a test for which $x = 2$			
A) A score of 43			
B) Both scores have the same rela	tive position.		
C) A score of 270	84		

C) 52

7) ___

D) 70

Find the percentile for the data value.

A) 35

7) Data set: 6 6 21 18 6 15 27 27 33 9 6 27 18 3 27; data value: 21 B) 60

Find the indicated measure.

8) The test scores of 32 students are listed below. Find P46.

32 37 41 44 46 48 53 55

56 57 59 63 65 66 68 69

70 71 74 74 75 77 78 79

80 82 83 86 89 92 95 99

A) 67

B) 15

C) 68

D) 14.72

9) The test scores of 32 students are listed below. Find Q3.

32 37 41 44 46 48 53 55

56 57 59 63 65 66 68 69

70 71 74 74 75 77 78 79

80 82 83 86 89 92 95 99

A) 79

B) 80

C) 24

D) 79.5

Construct a boxplot for the given data. Include values of the 5-number summary in all boxplots.

10) The test scores of 32 students are listed below. Construct a boxplot for the data set.

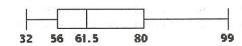
32 37 41 44 46 48 53 55

57 57 59 63 65 66 68 69

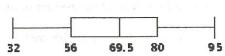
70 71 74 74 75 77 78 79

81 82 83 86 89 92 95 99

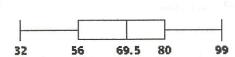
A)







C)



D)

