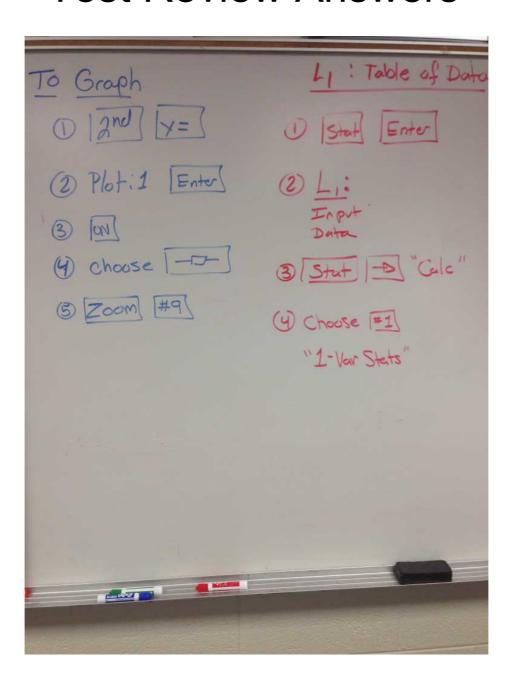
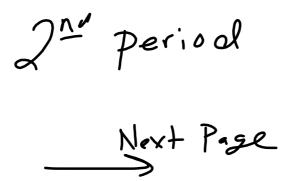
Stat Unit Part A Test Review Answers



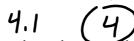


Name:

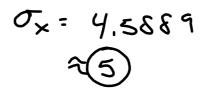
1. Year 2000 salaries for the Los Angeles Lakers:

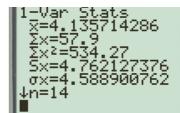
Shaquille O'Neal	\$17.1 million	Ron Harper	\$2.1 million
Kobe Bryant	\$11.8 million	A.C. Green	\$2.0 million
Robert Horry	\$5.0 million	Devean George	\$1.0 million
Glen Rice	\$4.5 million	Brian Shaw	\$1.0 million
Derek Fisher	\$4.3 million	John Salley	\$0.8 million
Rick Fox	\$4.2 million	Tyronne Lue	\$0.7 million
Travis Knight	\$3.1 million	John Celestand	\$0.3 million

a. Find the mean (x). Show work.



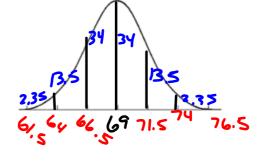
b. Find the standard deviation σ_x . List each step that you are doing. (Not calculator steps, conceptual steps.)





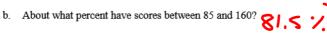
c. Find the range. Show work.

- The distribution of heights of adult American men is approximately normal (has a bell-shaped distribution) with mean 69 inches and standard deviation of 2.5 inches. Draw and label the distribution. Then answer the questions below.
 - What percent of men are taller than 74 inches?

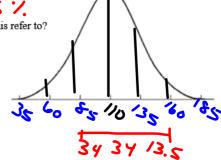


Scores on the Weschler Adult Intelligence Scale (a standard "IQ" test) for the 20 to 34 age group are approximately normally distributed with a mean of 110 and a standard deviation of 25. Draw and label the distribution. Then answer the questions below.

What percent of the people in this age groups have scores above 1103



c. If a "low" score is below 60, what percent of the people does this refer to?



Name:

Use the following data set to work problems 1-3.

Average number of commercials from 1 hour of listening to the radio

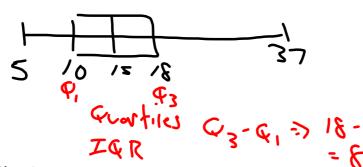
17 16 37 18 13 9 18 15 14 2

7 10 11 20 5

1. Find the 5-number summary for the data set.

2. Find the IQR of the data set. Show your work.

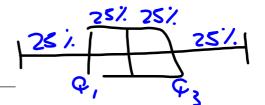
3. Construct a box-and-whisker plot of the data set. Use a ruler.



Short Answer:

- 4. When working with quartiles, what percent of the data
 - a. is above the third quartile? 251

 - c. between the first and third quartile?



5. You have received your results from a cardiovascular test that you had to take. The results stated that you scored in the 85th percentile of your age group. Using complete sentences, explain what this means.

3rd Period

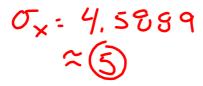
Next page

1. Year 2000 salaries for the Los Angeles Lakers:

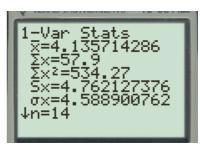
1 car 2000 sararies	for the Los Angeles	Lakers.	
Shaquille O'Neal	\$17.1 million	Ron Harper	\$2.1 million
Kobe Bryant	\$11.8 million	A.C. Green	\$2.0 million
Robert Horry	\$5.0 million	Devean George	\$1.0 million
Glen Rice	\$4.5 million	Brian Shaw	\$1.0 million
Derek Fisher	\$4.3 million	John Salley	\$0.8 million
Rick Fox	\$4.2 million	Tyronne Lue	\$0.7 million
Travis Knight	\$3.1 million	John Celestand	\$0.3 million

a. Find the mean (x). Show work.

b. Find the standard deviation σ_x . List each step that you are doing. (Not calculator steps, conceptual steps.)



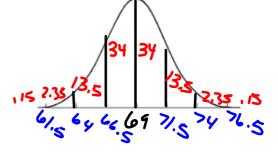
c. Find the range. Show work.



2. The distribution of heights of adult American men is approximately normal (has a bell-shaped distribution) with mean 69 inches and standard deviation of 2.5 inches. Draw and label the distribution. Then answer the questions below.

a. What percent of men are taller than 74 inches?

b. Between what heights do the middle 95% of men fall?



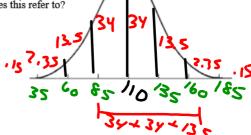
Scores on the Weschler Adult Intelligence Scale (a standard "IQ" test) for the 20 to 34 age group are approximately normally distributed with a mean of 110 and a standard deviation of 25. Draw and label the distribution. Then answer the questions below.

What percent of the people in this age groups have scores above 110? 50 %

b. About what percent have scores between 85 and 160?

c. If a "low" score is below 60, what percent of the people does this refer to?

115 + 2.35 - 2.5 %



Stats

Use the following data set to work problems 1-3.

Average number of commercials from 1 hour of listening to the radio

13 10 11 20

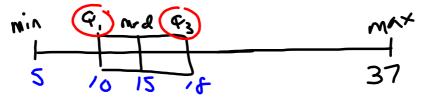
1. Find the 5-number summary for the data set.

Min = 5
$$Q_1 = 10$$

Max = 37 $M_2 = 15$
2. Find the IQR of the data set. Show your work.



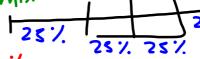
3. Construct a box-and-whisker plot of the data set. Use a ruler.



Short Answer:

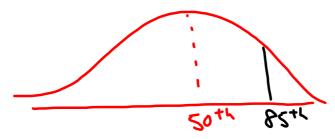
4. When working with quartiles, what percent of the data

a. is above the third quartile?



b. below the second quartile? c. between the first and third quartile?

5. You have received your results from a cardiovascular test that you had to take. The results stated that you scored in the 85th percentile of your age group. Using complete sentences, explain what this means.





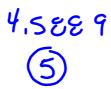
Name:

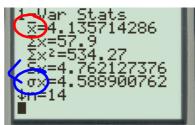
1. Year 2000 salaries for the Los Angeles Lakers:

1 cm 2000 salaries	ioi die Los migeres	Lakers.	
Shaquille O'Neal	\$17.1 million	Ron Harper	\$2.1 million
Kobe Bryant	\$11.8 million	A.C. Green	\$2.0 million
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Rick Fox	\$4.2 million	Tyronne Lue	\$0.7 million
Travis Knight	\$3.1 million	John Celestand	\$0.3 million

33.1 million a. Find the mean (\bar{x}) . Show work.

b. Find the standard deviation σ_x . List each step that you are doing. (Not calculator steps, conceptual steps.)

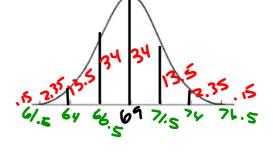




c. Find the range. Show work.

- The distribution of heights of adult American men is approximately normal (has a bell-shaped distribution) with mean 69 inches and standard deviation of 2.5 inches. Draw and label the distribution. Then answer the questions below.
 - What percent of men are taller than 74 inches?

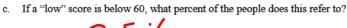
2.5 %.
Between what heights do the middle 95% of men fall?

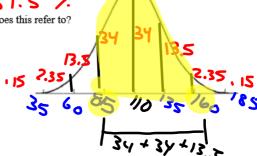


Scores on the Weschler Adult Intelligence Scale (a standard "IQ" test) for the 20 to 34 age group are approximately normally distributed with a mean of 110 and a standard deviation of 25. Draw and label the distribution. Then answer the questions below.

What percent of the people in this age groups have scores above 110? $\frac{50}{}$

About what percent have scores between 85 and 160? 81.5 /





Name: Use the following data set to work problems 1-3. Average number of commercials from 1 hour of listening to the radio 18 13 Stats 1. Find the 5-number summary for the data set. he IQR of the data set. Show your work. 3. Construct a box-and-whisker plot of the data set. Use a ruler. Short Answer: 25%. 25% 4. When working with quartiles, what percent of the data a. is above the third quartile? 25 % b. below the second quartile? c. between the first and third quartile? 5. You have received your results from a cardiovascular test that you had to take. The results stated that you scored in the 85th percentile of your age group. Using complete sentences, explain what this means.

