Part 1: Comparing Data	
How many hours of sleep did you get last night (rou	nd to the nearest half hour)?
In what ways could we compare these groups of data? How?	
Let's first look at the data in a dot plot, which is a diagram that t	uses a number line and x's to show
frequency.	
	Experience and inserting experience of the second second second second and the second
By looking at the data in these diagrams, are there any genera	alizations you can make?
by rooming at the data in those diagrams, are there any genera	anzations you can make.
Are there any specific conclusions you can draw?	
y opoline conclusions you can araw.	
YAYI	N.O.
What could we do with each group of data in order to truly co	empare it?

<i>Algebra 1:</i> Unit 9), Lesson 3	: Comparing	Data	Distributions	Notes
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Name:

Part 2: Measures of Center	
Data can be described and summarized using different	
3	
Commonly used measures of center:	
m)	

- <u>The mean</u>
- The median

NFL	Steps	MLB
	Mean:	
	1.	
	2.	
	2.	
	3.	
	Median:	
	1.	
	2.	
	3.	
[

Compare the measures of center between the amount of hours of sleep for girls and boys.

Algebra 1:	Unit 9,	Lesson	3: Com	paring	Data	Distributi	ons Notes
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Name:

Data can also be described and summarized using different	Part 3: Measures of Spread	
	Data can also be described and summarized using differen	nt
Standard Deviation:	Standard Deviation:	
	•	
	•	

	STANDARD DEVIATION	: Girls	Steps	
ean:			1.	<u></u>
Data Value,	Deviation from mean (x-mean)	Square the deviation	2.	
			3.	
			4.	
			5.	
			6.	
	·		7.	
		Sum:		
The second secon	A CONTRACTOR	Divide: Square Root:		
The second secon		Square Noot.		

	ender American de la companya de la	Boys Example	e: On your own
Mean:			
 Find the stan	dard deviation:		Find the Range:
Pind the stan Data Value, x	dard deviation: Deviation from mean (x-mean)	Square the deviation Sum: Divide:	Find the Inter-Quartile Range:
		Square Root:	
Standard Dev	iation:		
	IOR	Range	Compare the measures of variation between the

	IQR	Range
Girls		
Boys		

Compare the measures of variation between the amount of hours of sleep that girls and boys get.

Alaehra 1.	Unit 9	Lesson 3	3. Comparing	Data Distr	ibutions Notes
Aluebiu I.	UIIIL 2.	PC22OH "	o, Companne .	Data Disti	IDULIONS NOTES

Name:

While standard deviation uses the mean to describe how spr	ead out a group of data is fro	om the mean, the
spread of data can be described by comparing it to the media		,
		· · · · · · · · · · · · · · · · · · ·
INTERQUARTILE RANGE: Girls	Steps	5
	2.	
	3.	
	<i>J.</i>	
	4.	
	_	
	5.	1
• ·		
Why is the IQR less than the range?		
why is the IQK less than the range?		