Lesson	10.3: Da	y 1: Doe	es Men	K.Y	rainii	Ä	elp?
Does memory tra memorize as ma you can rememb a memorization s	ny as possible er. You will th	by just reread en be given a	ding the wo	ords. You of words	will reco to memoi	rd as ma rize for 3	any words as
. How many word	ds did you get	correct using s	strategy A	(rereading	1)?		
3. Add your data t	o the table on	the board. Co	py the data	a below ar	nd calcula	ate the di	fference
n each pair.							
n each pair.							
A B Difference							
n each pair. A B							
A B Difference							
A B Difference							
A B Difference A B							
A B Difference A B Difference A B Difference							
A B Difference A B B B B B B B B B B B B B B B B B B	strategy.	the DIFFEREN	NCES only	in One Questrates	jy Fer		
A B Difference A Co to stapplet. of the following: Dotplot: Znawas	strategy.	the DIFFEREN NO differen	NCES only	in One Questrates	jy Fer		

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Name:	Hour	_ Date:	
5. Construct a 95% confidence interval for the true meastudents using rereading and quizzing.			
STATE: State the parameter you want to estimate	and the con	fidence level.	
Parameter: My -> true mean difference in words remembered	Statistic:	diff=	
Confidence level: 95%			
PLAN: Identify the appropriate inference method an	d check cond	ditions.	
Name of procedure: One Sample + Inte		¥	
Check conditions: Random - Randomly Assig	ned"		
107:- N/A			
Normal: On >30 CLT			
DO: If the conditions are met, perform the calculations	tlurs ons.		
General Formula: Point Estimate & ma	rain of	enror	
Specific Formula: XdiFF ± + Sd			
Work:	1		
Answer:			
CONCLUDE: Interpret your interval in the context of	of the problem	1.	
Interpret: We are 95% confident +			Vin
_ to _ captures the true mea	n differ	ence in	•
Words remembered using reverse. Do we have evidence that there is a difference in the rereading and quizzing? If the interval contains 0, then	ading an e average wor	d quiezing	d using
is better. If (-, -) quizzing is	Detter	(1) イ) フ	Lercading
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Lesson 10.3: Day 1: Confidence Interval for Paired Data						
Important ideas: LT#1 Describe Distribution	LT#2					
2 2nd is larger 1st is larger 1 Xdiff Stef	One sample t interval for Moiff					
M > Msife De Suff	Xd.FF + t* Sd.FF					
Check Your Understanding						
Researchers designed an experiment to study the effects of caffeine withdrawal. They recruited 11 volunteers who were diagnosed as being caffeine dependent to serve as subjects. Each subject was barred from coffee, colas, and other substances with caffeine for the duration of the experiment. During one 2-day period, subjects took capsules containing their normal caffeine intake. During another 2-day period, they took placebo capsules. The order in which subjects took caffeine and the placebo was randomized. At the end of each 2-day period, a test for depression was given to all 11 subjects. Researchers wanted to know whether being deprived of caffeine would lead to an increase in depression.36 kernels at the α = 0.05 significance level?						
The table below contains data on the subjects' scores on the depression test. Higher scores show more symptoms of depression.						
Subject123Depression (caffeine)554Depression (placebo)16235						
1. Make a dotplot of the difference in depression test scores (caffeine – placebo) for each subject. What does the graph reveal about the difference in depression test scores? Most dots are negatives meaning						
-20 -15 -10 -5 ON STATE PLACE BO SCOTE WAS NIGHT. 2. Find the mean and standard deviation of the difference (caffeine – placebo) in depression						
X JIFF = -7.364 SLIFE	in context. On average, the placebo = 6.918 Score was 7.364 higher					
3. Construct and interpret a 90% confidence interval for the true mean difference in depression test score (caffeine – placebo)						
DO: Point Est & margin of X diff	confident that the interval from -11.144					
-7.364 ±.1.812	* 6.918 to -3.584 captures the true average differen					
(-11.144, -3.5	in depression scores. The Stats Medic					