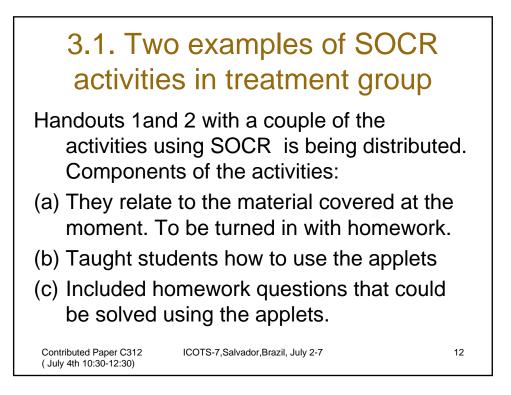
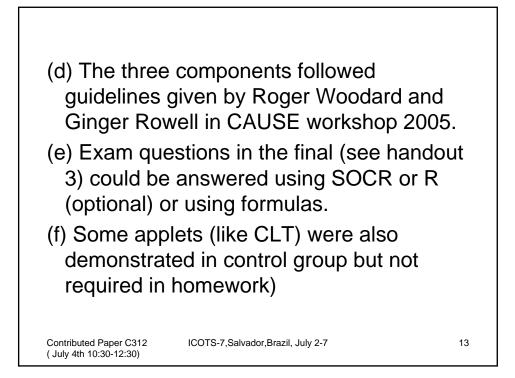
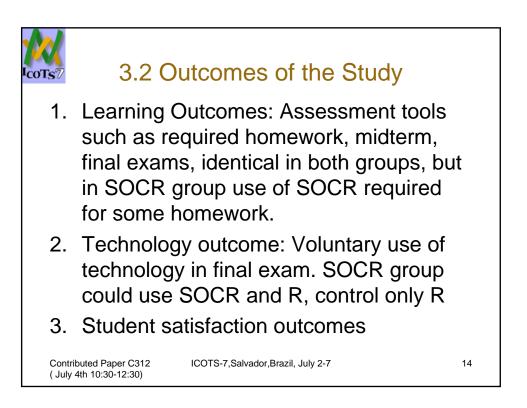
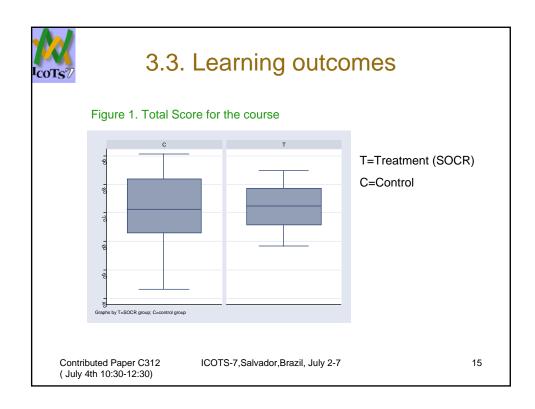


Table 1. Composition of groups						
Group	Maj	jor %		Class %	6	
SOCR (n=	:20) Mat	th/Ap M	45%	Junior	65%	
9:00-9:50a	am Mat	th/Ec	35%	Senior	15%	
	Oth	ier	20%	Grad	15%	
Control(n=	-39) Ma	th/Ap M	13%	Junior	28%	
11-11:50a	m Mat	th/Ec	24%	Senior	28%	
	-	stat		Grad		
	Enç	g,other	30%	*These biostats	grads s mostly	
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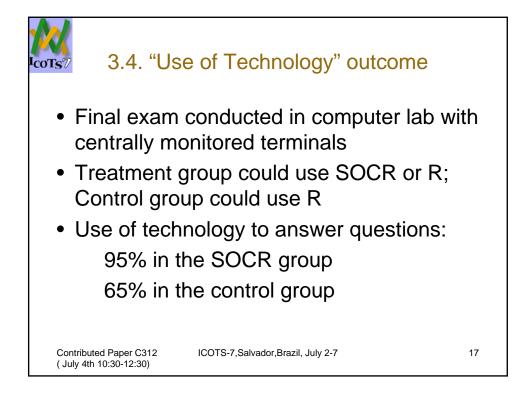


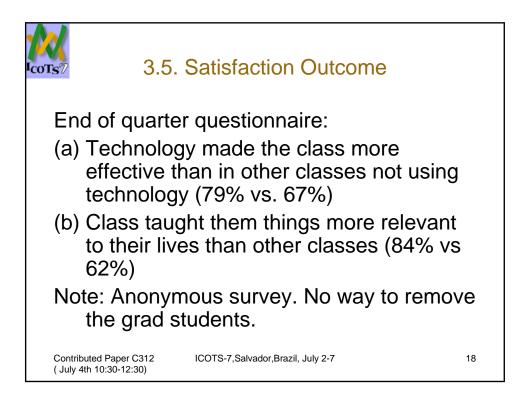


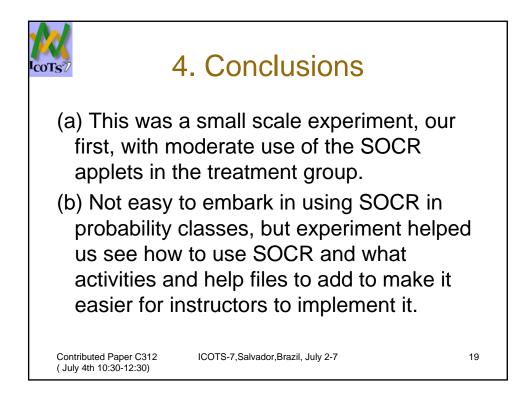


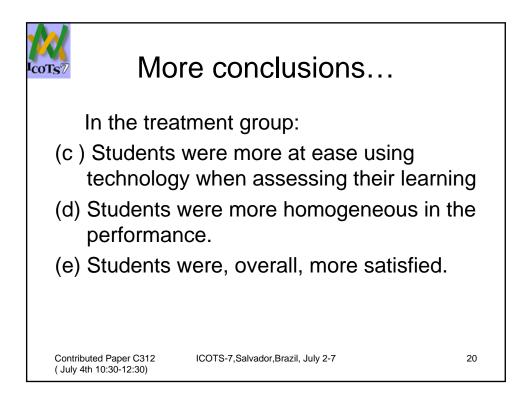


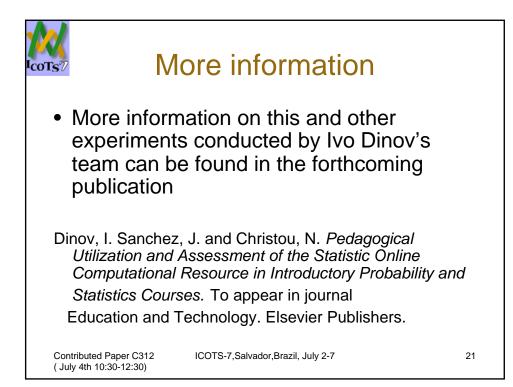
0				T-1-1(400)
Group	Midterm(35)	Hwk (20)	Final(45)	Total(100)
SOCR	Mean=27.08	16.41	29.23	72.73
(n=17)	Median=28.5	16.41	29.40	72.44
	Min=17.5	13.39	22.5	58.42
	Max=33	19.07	36.9	84.89
	Sd=4.25	1.73	4.3	8.08
Control	Mean=26.19	15.76	28.48	70.45
n=23	Median=26.5	16.92	29.4	71.22
	Min=17.5	4.69	18.4	43.19
	Max=34	19.74	37.2	90.55
	Sd=4.65	4.44	5.31	12.24

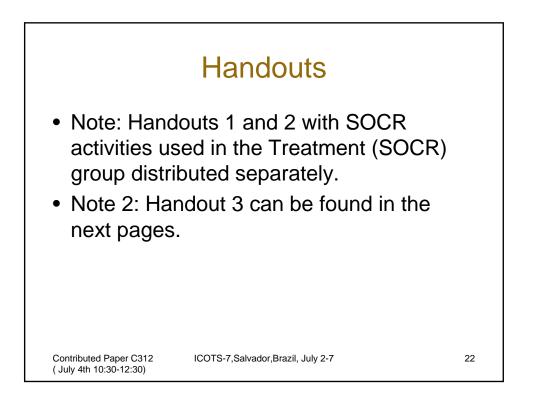


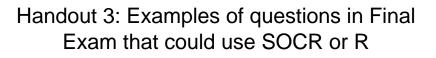












- Q.12.- What is the probability that in a room with 10 people at least two people share the same birthday? Show work. (Birthday experiment was used in homework-See Birthday activity)
- Q.14.- In a large lecture course, the scores on the final examination followed the normal curve closely. The average score was 60 points and three-fourths of the class scored between 50 and 70 points. The SD of the scores was (choose from options): (i) larger than 10 points; (ii) smaller than 10 points; (iii) impossible to say with the information given.

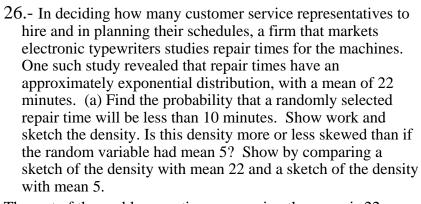
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Q.30.- Let X be the random variable representing the gain (in \$) from playing a particular game and let Y the random variable representing the gain in satisfaction. It is believed that X and Y are jointly normally distributed with $\mu_x=0$, $\mu_y=0$, $\rho=0.6$, $\sigma_x=4$ and $\sigma_y=2$. (a) What would happen to the expected satisfaction if the gain went from \$5 to \$10 dollars. Provide the exact increase in expected satisfaction.(b) What would be the effect on the joint distribution if ρ decreased to 0.3 and $\sigma_x=$ became 4?

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The rest of the problem continues assuming the mean is 22.

(b) The charge for typewriters repairs is \$50 for each half hour (or part thereof) for labor. What is the probability that a repair job will result in a charge for labor of \$100? Show work. (assume the original mean of 22).

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