STAT 350

Instructor: Womble

	Qiu Tian
20	HW 9
9 1	a) The data are independent because they are
	(a) The data are independent because they one
9	b) Paired: same care different condition
-	b) Paired: same cars different condition c) Independent: two different random samples.
7	The 18Th of the second of the
2.	a) Matched pairs because employees from the same place
-	are paired and distributed to two groups.
>	a) Matched pairs because employees from the same place are paired and distributed to two groups. b) Ho: Up = 0 Ho: Mp = 0
5	(Mo = Mx, - Mx.)
	$t = \frac{M_0 - 0}{S_0 / In} = \frac{0.5875}{0.9687 / IE} = 1.7154$
-	
-	$DF = 8 - 1 = 7$ $Q = 0.01$ $t^* = 3.499 > 1.7154$
	C) 99/ CI (0.5875±3.499 x 2.9687)
0	= (-0.6109 1.7858)
	-(-8.010 (1, 10.38)
	We are 99/ confident that the true mean
0	difference of X, and X, is between -0.5109
1	dy It dues not inside more affection loss of
1	include o, also we can see X, and X2 are
1	neally close even we have a small sample size
	I said single sile
3.	a) Two sample independent. The two assembly lines are totally
	independent independent
	indepos dent. b) Ho
	Sp - (n,-1)Si + (n,-1)Si - 15.0037762 +0.25862) - 10470
	$n_1 + n_2 - 2$ 30 - 0.10418
)	t = X1-X2 = -2 2369
2	$\sqrt{S_{\ell}\left(\frac{1}{n_{\ell}} + \frac{1}{n_{\ell}}\right)}$
0	$\phi = 0.0$ df = $\frac{(3+5)}{16}$ = $\frac{2}{5}$
0	1× 173
9)	t'= - 2.473
-	.32348 X 01/6
3	

