Name:										Statistics	
Date:						Practice Quiz 8-					
gained The fou	8.6, 6.4, 3 ir vegans	3.0, 5.5, 8.	1, and 1.4 <mark>բ</mark> 3, 0.4, 1.1, ն	oounds. T	he six veg					on-vegetarians nd 2.4 pounds	
There are _	1=	_ degrees of fre	edom between the	e groups. There	are 1 =	degrees of	f freedom for the	non-vegetarians,	=_	degrees of freedon	
for the vege	tarians, and	=	_degrees of freed	om for the vega	ns, making a to	tal of + _	+=	degrees o	f freedom with	nin the groups.	
b) What is	the critical v	value?									
For $df_N = \underline{\hspace{1cm}}$ and $df_D = \underline{\hspace{1cm}}$		in the α =	F table, $F_0 =$								
c) Calcula	te SS _w by hai	nd.									
Non-Vegeta	<u>rians</u>			<u>Vegetarians</u>				<u>Vegans</u>			
X	$\underline{x} - \overline{\underline{x}}_{ }$	$(x - \overline{x}_1)^2$		X	$\underline{x} - \overline{x}_2$	$(x - \overline{x}_2)^2$		X	<u>x - \bar{x}_3</u>	$(x - \overline{x}_3)^2$	
8.6	3.1	9.61		4.4	2.0	4.0		3.3			
6.4	0.9	0.81		5.1	2.7		-	0.4			
3.0	-2.5	6.25		-1.4			-	1.1			
5.5	0.0	0.00		0.9			-	1.2			
8.1	2.6	6.76		3.0			-				
1.4	-4.1	16.81		2.4			-				
$\bar{x}_1 = 5.5$	$\sum (x - \overline{x}_1)^2 =$	=		$\bar{x}_2 = 2.4$	$\sum (x - \bar{x}_2)^2 = 28.34$			$\bar{x}_3 = 1.5$	$\sum (x - \overline{x}_3)^2 = \phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$		
SS ^ω = Σ	=_	+	+	=							
d) Calcula	ite <i>MS_w</i> by ha	and.									
MS _w =	=										
e) Calcula	te $SS_{_B}$ by har	nd.									
<u>n</u> ,	\overline{X}_{i}	<u>n</u> , \bar{X}_{i}	$(x_i - \overline{x})$	$(x_i - \overline{x})^2$	$\underline{n}(x_i - \overline{x})^2$		<u> </u>	= 3.338			
6	5.5	33.0	2.16	4.67	28.02						
6	2.4	14.4				_					
4	1.5	6.0				_					
∑n =	Σ	n _i z _i =		SS _B =	Σ	=					
f) Calcula	te <i>MS_B</i> by ha	nd.									
	=										
g) Calcula	te <i>F</i> by hand	l.									
	=										
			by F _{df. df} and a ra	inge for <i>p</i> .							
			men				durina	the first semeste	r of college. F	=	
pO.5	_	, 10931, 000							Jonogo, (

i) Find the exact p value by doing a calculator test. For ANOVA(____, ____, ____), p = _____.