Diet	Wtloss
A	3.709
A	7.087
A	6.754
A	8.994
A	9.077
A	6.413
A	5.877
A	2.572
A	7.520
A	6.881
A	7.265
A	3.477
A	3.755
A	8.760
A	7.032
A	9.052
A	10.062
A	4.840
A	6.449
A	9.019
A	-1.715
A	4.718
A	4.007
A	7.241
A	2.128
A	6.968
A	4.853
A	0.055
A	2.680
A	3.746
A	7.033
A	5.033
A	5.569
A	6.712
A	3.663
A	2.741
A	6.256
A	5.349
A	7.300
A	5.445
A	4.970
A	3.613
A	7.568
A	5.861
A	4.157
A	0.203
A	4.441
A	5.875
A	5.715
A	0.280
B	-1.087
B	1.819
B	0.074
B	1.755
B	1.889
B	3.089
B	4.008
B	4.551
B	1.372
B	3.413
B	-4.148
B	2.823
B	2.865
B	4.369
B	6.337
B	6.308
B	3.494
B	10.539
B	3.840
B	5.123
B	5.485
B	-1.894
B	8.016
B	2.310
B	3.882
B	7.030
B	7.727
B	0.105
B	3.650
B	4.547
B	4.985
B	5.159
B	4.760
B	4.934
B	3.106
B	5.598
B	2.162
B	6.520
B	7.046
B	1.757
B	1.848
B	1.096
B	2.145
B	8.435
B	6.099
B	3.972
B	2.409
B	0.569
B	7.013
B	2.594

Exercises 6.1, 6.2

Diet A	**n**	50.00
	Mean	5.34
	SD	2.54
	Median	5.64
	Q1	3.75
	Q3	7.03
	IQR	3.28
	Min	-1.715
	Max	10.062
	Range	11.777

Diet B	**n**	50
	Mean	3.710
	SD	2.769
	Median	3.75
	Q1	1.95
	Q3	5.40
	IQR	3.45
	Min	-4.148
	Max	10.539
	Range	14.687

Interpretation (6.1 Diet B had a lower mean and median average weight loss than diet A (and with larger variance and IQR), so it seems to be less efficient

Exercise 7.2

F-Test Two-Sample for Variances

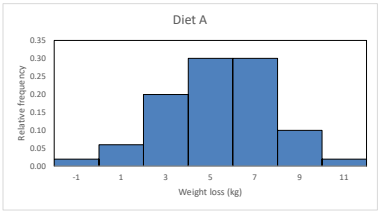
	Variable 1	*Variable 2*
Mean	5.3412	3.70996
Variance	6.429280612	7.66759359
Observations	50	50
df	49	49
F	0.838500442	
P(F<=f) one-tail	0.269951478	
F Critical one-tail	0.622165468	
p2	0.539902956	

t-Test: Two-Sample Assuming Equal Variances

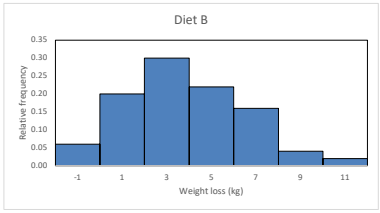
	Variable 1	*Variable 2*
Mean	5.3412	3.70996
Variance	6.429280612	7.66759359
Observations	50	50
Pooled Variance	7.048437101	
Hypothesized Mean Difference	0	
df	98	
t Stat	3.072143179	
P(T<=t) one-tail	0.001375772	
t Critical one-tail	1.660551217	
P(T<=t) two-tail	0.002751544	
t Critical two-tail	1.984467455	
Difference in means	1.63124	

Exercise 9.3

UCB	Frequency	Class mark	Relative frequency
0	1	-1	0.02
2	3	1	0.06
4	10	3	0.2
6	15	5	0.3
8	15	7	0.3
10	5	9	0.1
12	1	11	0.02
	0		
TOTAL	50		1



UCB	Frequency	Class mark	Relative frequency
0	3	-1	0.06
2	10	1	0.2
4	15	3	0.3
6	11	5	0.22
8	8	7	0.16
10	2	9	0.04
12	1	11	0.02
	0		0
TOTAL	50		1



Interpretation (9.3) Weight loss achieved in diet A seems to have been higher than diet B