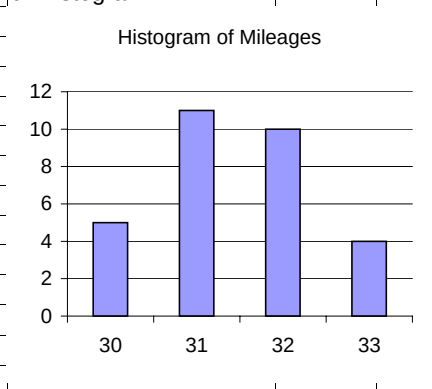
	A	B	C	D	E	F	G	H	I	J
1		49 mileqges from Table 2.3 p. 42	Rounded mileage		Exercise 2.5 p.75 Based on convenience sample of first 30 observations			Exercise 2.15		
2	y1	30.8	31					Confidence 1-a =	0.99	
3	y2	31.7	32		a. Sample Mean	31.4		Acceptable Risk a =	0.01	
4	y3	30.1	30		b. Sample Variance	0.76878		y-bar =	14.29	
5	y4	31.6	32		c. Sample S.D.	0.8768	0.8768	s =	2.1900	
6	y5	32.1	32		Count of Rounded mileage			N =	6	
7	y6	33.3	33		Rounded mileage	Total		Standard Error =	0.894064	
8	y7	31.3	31		30	5		TINV(a,N-1) =	4.032	
9	y8	31.0	31		31	11		Leave a alone for 2 sided interval with TINV		
10	y9	32.0	32		32	10		Cut a in half for 2 sided interval with tables		
11	y10	32.4	32		33	4		Margin of Error =	3.605	
12	y11	30.9	31		Grand Total	30		a. Lower Bound	10.7	
13	y12	30.4	30		d. Histogram			Upper Bound	17.9	
14	y13	32.5	33							
15	y14	30.3	30					b. Since the entire confidence interval is below 20 minutes, they can be 99% certain that mu is less than 20 minutes		
16	y15	31.3	31							
17	y16	32.1	32							
18	y17	32.5	33							
19	y18	31.8	32							
20	y19	30.4	30					Exercise 2.18		
21								c =	20	
22	y20	30.5	31					Ho: mu =	20	
23	y21	32.0	32					H1: mu <	20	
24	y22	31.4	31					Significance a =	0.05	
25	y23	30.8	31					(ybar - c) / Std. Err.) =	-6.38657	
26	y24	32.8	33					t statistic =	-6.38657	
27	y25	30.6	31		e. Stem and Leaf -- Omitted			TINV(2a,N-1) =	2.015049	
28	y26	31.5	32					Rejection Point =	2.015049	
29	y27	32.4	32		Exercise 2.8			Double a for 1 sided test with TINV		
30	y28	31.0	31		a. NORMINV(.05,0,1) =	-1.6449		Leave a alone for 1 sided test with tables		
31	y29	29.8	30		z[.05] =	-1.6449		Since 6.39 > 2.02		
32	y30	31.1	31					Reject the hypothesis that mu >= 20		
33					Exercise 2.9			TDIST(ABS(t statistic),N-1,1)=	0.00070	
34	y31	32.3			a.TINV(7,.05*2) =	1.895		p-value =	0.00070	
35	y32	32.7			t[7,.05] =	-1.8946				
36	y33	31.2			NOTE Excel requires doubling a					
37	y34	30.6								
38	y35	31.7			Exercise 2.10					
39	y36	31.4			a. FINV(0.05,2,5) =	5.78615				
40	y37	32.2			F[2,5,.05] =	5.78615				
41	y38	31.5								
42	y39	31.7			Exercise 2.11					
43	y40	30.6			a. CHIINV(0.05,3) =	7.81472				
44	y41	32.6			Chi-sq[3,.05) =	7.81472				
45	y42	31.4								
46	y43	31.8			Exercise 2.14					
47	y44	31.9			Sample	A	B	C		
48	y45	32.8			Confidence 1-a =	0.99				
49	y46	31.5			Acceptable Risk a =	0.01				
50	y47	31.6			y-bar =	31.2				
51	y48	32.2			s =	0.7517				
52	y49	32.0			N =	5				
53					Standard Error =	0.33617				
54					TINV(N-1,a) =	4.604				
55					Leave a alone for 2 sided interval with TINV					
56					Cut a in half for 2 sided interval with tables					
57					Margin of Error =	1.548				
58					Lower Bound	29.7				
59					Upper Bound	32.7				
60					Contains mu?	TRUE			mu =	31.5



	A	B	C	D	E	F	G
1	Analysis on Page 54						
2	Sample	A	B	C			
3	Confidence a =	0.95	0.95	0.95			
4	y-bar =	31.2	31.7	32.7			
5	s =	0.7517	0.8093	0.8275			
6	N =	5	5	5			
7	Standard Error =	0.3362	0.3619	0.3701			
8	TINV(N-1,1-a) =	2.776	2.776	2.776			
9	IMPORTANT: Excel's TINV is 2-sided prob, many printed tables are 1 sided!						
10	Use 1-a in Excel for 2 sided interval						
11	Margin of Error =	0.933	1.005	1.027			
12	Lower Bound	30.3	30.7	31.7			
13	Upper Bound	32.1	32.7	33.7			
14	Contains mu?	TRUE	TRUE	FALSE	mu =	31.5	