

Weight lbm	Calculated	Mean	Std Dev	Variance	Xi-u	(Xi-u)^2	sum((Xi-u)^2)	Variance	Standard Dev
164		160.74	9.791	95.873	3.26	10.628	4793.64	95.8728	9.791466
143					-17.74	314.708			
177	Excel	Mean	Std Dev	Variance	16.26	264.388			
149		160.74	9.791	95.872	-11.74	137.828			
162					1.26	1.588			
171					10.26	105.268			
159					-1.74	3.028			
165					4.26	18.148			
153					-7.74	59.908			
167					6.26	39.188			
154					-6.74	45.428			
162					1.26	1.588			
170					9.26	85.748			
137					-23.74	563.588			
165					4.26	18.148			
160					-0.74	0.548			
165					4.26	18.148			
155					-5.74	32.948			
173					12.26	150.308			
166					5.26	27.668			
158					-2.74	7.508			
160					-0.74	0.548			
155					-5.74	32.948			
157					-3.74	13.988			
162					1.26	1.588			
150					-10.74	115.348			
167					6.26	39.188			
163					2.26	5.108			
175					14.26	203.348			
136					-24.74	612.068			
159					-1.74	3.028			
166					5.26	27.668			
180					19.26	370.948			
163					2.26	5.108			
158					-2.74	7.508			
185					24.26	588.548			
164					3.26	10.628			
157					-3.74	13.988			
147					-13.74	188.788			
170					9.26	85.748			
168					7.26	52.708			
152					-8.74	76.388			
145					-15.74	247.748			
156					-4.74	22.468			
162					1.26	1.588			
158					-2.74	7.508			
172					11.26	126.788			
160					-0.74	0.548			
156					-4.74	22.468			
159					-1.74	3.028			

Use the Data Below to Calculate Sample Mean, Sample Standard deviation, Sample Variance and compare it with														
Corresponding Excel functions. Use 3 decimal points. <b>For StandardDeviation use eq10.4)</b>														
Interval					MEAN					Std Dev	Variance	Excel(Mean)	Excel(Std Dev)	Excel(Variance)
70	29.642	4900	(# of sample, n=	36	75.444	207360	7376656	2452.889		8.372	70.083	75.444	8.372	70.083
85	91.309	7225												
71	19.753	5041												
75	0.198	5625												
65	109.086	4225												
66	89.198	4356												
78	6.531	6084												
69	41.531	4761												
82	42.975	6724												
76	0.309	5776												
90	211.864	8100												
78	6.531	6084												
70	29.642	4900												
68	55.420	4624												
69	41.531	4761												
85	91.309	7225												
77	2.420	5929												
91	241.975	8281												
80	20.753	6400												
61	208.642	3721												
71	19.753	5041												
72	11.864	5184												
89	183.753	7921												
69	41.531	4761												
86	111.420	7396												
81	30.864	6561												
62	180.753	3844												
63	154.864	3969												
76	0.309	5776												
80	20.753	6400												
76	0.309	5776												
80	20.753	6400												
71	19.753	5041												
72	11.864	5184												
70	29.642	4900												
92	274.086	8464												