

Paragraph

One-way ANOVA

Oneway

[DatasetGenerated1]

Descriptives						
weight						
	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean	
					Lower Bound	Upper Bound
1	98	173.22	33.743	3.409	166.46	179.99
2	73	183.47	47.541	5.564	172.37	194.56
3	71	179.82	44.007	5.223	169.40	190.23
4	87	178.14	42.532	4.560	169.07	187.20
5	73	174.77	33.937	3.972	166.85	182.69
Total	402	177.59	40.341	2.012	173.64	181.55

Descriptives		
weight		
	Minimum	Maximum
1	105	308
2	100	289
3	99	325
4	105	320
5	115	277
Total	99	325

ANOVA					
weight					
	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	5347.863	4	1336.966	.820	.513
Within Groups	647227.231	397	1630.295		
Total	652575.095	401			

ANOVA Effect Sizes<sup>a,b</sup>

		Point Estimate	95% Confidence Interval	
			Lower	Upper
weight	Eta-squared	.008	.000	.024
	Epsilon-squared	-.002	-.010	.014
	Omega-squared Fixed-effect	-.002	-.010	.014
	Omega-squared Random-effect	.000	-.002	.004

a. Eta-squared and Epsilon-squared are estimated based on the fixed-effect model.

b. Negative but less biased estimates are retained, not rounded to zero.

## Factorial ANOVA

## Factorial Analysis of Variance

Between-Subjects Factors		
		N
Nurse_ID	1	98
	2	73
	3	71
	4	87
	5	73
location	Buckingham	200
	Louisa	202

## Tests of Between-Subjects Effects

Dependent Variable: weight

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	11590.179 <sup>a</sup>	9	1287.798	.788	.628
Intercept	12423692.279	1	12423692.279	7597.819	<.001
Nurse_ID	5625.160	4	1406.290	.860	.488
location	468.318	1	468.318	.286	.593
Nurse_ID * location	5743.326	4	1435.831	.878	.477
Error	640984.916	392	1635.166		
Total	13331226.000	402			
Corrected Total	652575.095	401			

a. R Squared = .018 (Adjusted R Squared = -.005)

Factorial ANOVA

Factorial Analysis of Variance

Between-Subjects Factors		
		N
Nurse_ID	1	98
	2	73
	3	71
	4	87
	5	73
location	Buckingham	200
	Louisa	202

## Descriptive Statistics

Dependent Variable: weight

Nurse_ID	location	Mean	Std. Deviation	N
1	Buckingham	175.92	33.044	51
	Louisa	170.30	34.601	47
	Total	173.22	33.743	98
2	Buckingham	189.88	52.507	34
	Louisa	177.87	42.653	39
	Total	183.47	47.541	73
3	Buckingham	175.08	47.202	37
	Louisa	184.97	40.310	34
	Total	179.82	44.007	71
4	Buckingham	176.50	49.075	48
	Louisa	180.15	33.280	39
	Total	178.14	42.532	87
5	Buckingham	178.80	35.689	30
	Louisa	171.95	32.790	43
	Total	174.77	33.937	73
Total	Buckingham	178.71	43.772	200
	Louisa	176.49	36.705	202
	Total	177.59	40.341	402

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### Estimated Marginal Means of weight

