Paragraph

One-way ANOVA

Oneway

[DatasetGenerated1]

## Descriptives

weight

	N	Mean	Std. Deviation	Std. Error	95% Confidence Lower Bound	Interval for Mean 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	d f	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 Interva Lower Upper	
weight	Eta-squared Epsilon- squared	.008	.000	.024
		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.

### Factorial ANOVA

### Factorial Analysis of Variance

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

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

## Tests of Between-Subjects Effects

Dependent Variable: weight

Source	Type III Sum of Squares	d f	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		
	1	98		
	2	73		
Nurse_ID	3	71		
	4	87		
	5	73		
location	Buckingham	200		
location	Louisa	202		

### **Descriptive Statistics**

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

177.59

### Tests of Between-Subjects Effects

Total

Dependent Variable: weight

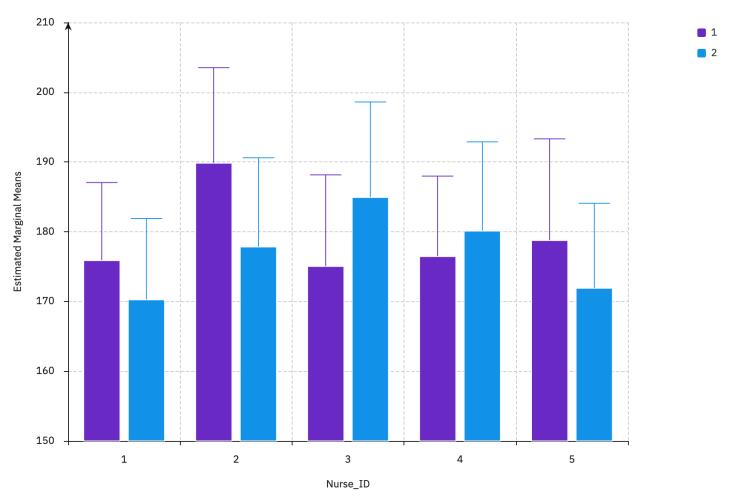
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40.341

402

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

## **Estimated Marginal Means of weight**



Error bars: 95% CI