

T-Test - Captain Baker's problem

One-Sample Statistics

	N	Mean	Std. Deviation	Std. Error Mean
ARMYWWM	10	35.1000	6.6072	2.0894

One-Sample Test

	Test Value = 30					
	t	df	Sig. (2-tailed)	Mean Difference	95% Confidence Interval of the Difference	
					Lower	Upper
ARMYWWM	2.441	9	.037	5.1000	3.735	9.8265

Descriptives

	Statistic	Std. Error
ARMYWWM Mean	35.1000	2.0894
95% Confidence Interval for Mean	Lower Bound: 30.3735 Upper Bound: 39.8265	
Median	36.5000	
Variance	43.656	
Std. Deviation	6.6072	
Minimum	24.00	
Maximum	44.00	
Range	20.00	

5.11 -5.1 11.3

DIET - The vitamin A experiment

Descriptives

DIET				Statistic	Std Error
VISION	suppl.vitamin A	Mean		40.2000	1.9310
		95% Confidence Interval for Mean	Lower Bound	35.8317	
			Upper Bound	44.5683	
		Median		41.5000	
		Variance		37.289	
		Std. Deviation		6.1065	
		Minimum		30.00	
	Maximum		48.00		
	Range		18.00		
	normal diet	Mean		36.2000	2.3276
		95% Confidence Interval for Mean	Lower Bound	30.9346	
			Upper Bound	41.4654	
		Median		38.5000	
		Variance		54.178	
Std. Deviation			7.3606		
Minimum			22.00		
Maximum		45.00			
Range		23.00			

Group Statistics

DIET	N	Mean	Std. Deviation	Std Error Mean
VISION suppl vitamin A	10	40.2000	6.1065	1.9310
VISION normal diet	10	36.2000	7.3606	2.3276

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig	t	df	Sig (2-tailed)	Mean Difference	Std Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
VISION	Equal variances assumed	5.37	.473	1.323	18	.203	4.0000	3.0243	-2.3539	10.3539
	Equal variances not assumed			1.323	17.407	.203	4.0000	3.0243	-2.3695	10.3695

Explore - Two Dependent Means

Descriptives

			Statistic	Std. Error
GREEN	Mean		27.4000	1.5290
	95% Confidence Interval for Mean	Lower Bound	23.9412	
		Upper Bound	30.8588	
	Median		29.0000	
	Variance		23.378	
	Std. Deviation		4.8351	
	Minimum		18.00	
	Maximum		33.00	
Range		15.00		
RED	Mean		26.8000	1.2806
	95% Confidence Interval for Mean	Lower Bound	23.9030	
		Upper Bound	29.6970	
	Median		27.5000	
	Variance		16.400	
	Std. Deviation		4.0497	
	Minimum		20.00	
	Maximum		32.00	
Range		12.00		
DIFF	Mean		.6000	.9214
	95% Confidence Interval for Mean	Lower Bound	-1.4842	
		Upper Bound	2.6842	
	Median		-.5000	
	Variance		8.489	
	Std. Deviation		2.9136	
	Minimum		-3.00	
	Maximum		5.00	
Range		8.00		

T-Test

Paired Samples Statistics

		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	GREEN	27.4000	10	4.8351	1.5290
	RED	26.8000	10	4.0497	1.2806

Paired Samples Correlations

		N	Correlation	Sig
Pair 1	GREEN & RED	10	.799	.006

Paired Samples Test

		Paired Differences					t	df	Sig (2-tailed)
		Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference				
					Lower	Upper			
Pair 1	GREEN - RED	6000	2.9136	.9214	-1.4842	2.6842	651	9	.531