

Practice with Univariate Statistics -- Answers

We collected three variables from each participant: 1) their score on a psychological wellness questionnaire, 2) whether they had daily or weekly therapy, and 3) and whether they received treatment at the Heath Center, the Psychology Department Clinic or from a private therapist.

Here are the frequency outputs and the univariate statistics ...

WELLNESS

	Frequency	Percent	Cumulative Percent
Valid			
23.00	1	3.1	3.3
24.00	2	6.3	10.0
26.00	1	3.1	13.3
30.00	1	3.1	16.7
32.00	1	3.1	20.0
33.00	2	6.3	26.7
34.00	1	3.1	30.0
37.00	1	3.1	33.3
38.00	4	12.5	46.7
39.00	2	6.3	53.3
40.00	2	6.3	60.0
41.00	3	9.4	70.0
42.00	1	3.1	73.3
47.00	1	3.1	76.7
49.00	1	3.1	80.0
50.00	1	3.1	83.3
52.00	1	3.1	86.7
56.00	1	3.1	90.0
57.00	2	6.3	96.7
58.00	1	3.1	100.0
Total	30	93.8	
Missing System	2	6.3	
Total	32	100	

What kind of variable is this? **Quantitative (continuous)**

Will the mean be interpretable? Why? **Yes -- quant variable**

What does the mean tell you? **Average wellness score is 39.90**

What does the standard deviation tell you?

about 68% of scores are between 29.97 and 48.83

about 96% of scores are between 20.04 and 59.76

THERAPY

	Frequency	Percent	Cumulative Percent
Valid			
weekly	25	83.3	83.3
daily	5	16.7	100.0
Total	30	100.0	

What kind of variable is this? **Binary**

Will the mean be interpretable? **Yes -- the decimal part of the mean will tell the proportion of cases in the higher coded group**

What does the mean tell you? **16.67% receive daily therapy**

TREAT

	Frequency	Percent	Cumulative Percent
Valid			
health center	13	40.6	43.3
Psychology Department Clinic	9	28.1	73.3
private therapist	8	25.0	100.0
Total	30	93.8	
Missing System	2	6.3	
Total	32	100.0	

What kind of variable is this? **Multiple category qualitative variable**

Will the mean be interpretable? **No**

What does the mean tell you? **Nada!**

Statistics

		WELLNESS	THERAPY	TREAT
N	Valid	30	30	30
Mean		39.9000	1.1667	1.8333
Std. Deviation		9.93201	.37905	.83391