Diet	Wtloss	
Α	3.709	
Α	7.087	
Α	6.754	
Α	8.994	
Α	9.077	
Α	6.413	
Α	5.877	
Α	2.572	
Α	7.520	
Α	6.881	
Α	7.265	
Α	3.477	
Α	3.755	
Α	8.760	
Α	7.032	
Α	9.052	
Α	10.062	
Α	4.840	
Α	6.449	
Α	9.019	
Α	-1.715	
Α	4.718	
Α	4.007	
Α	7.241	
Α	2.128	
Α	6.968	
Α	4.853	

t-Test: Two-Sample Assuming Equal Variances

	Variable 1	Variable 2
Mean	5.3412	3.70996
Variance	6.429280612	7.66759359
Observations	50	50
Pooled Variance	7.048437101	
Hypothesized Mean Difference	0	
df	98	
t Stat	3.0721	
P(T<=t) one-tail	0.0014	
t Critical one-tail	1.6606	
P(T<=t) two-tail	0.0028	
t Critical two-tail	1.9845	

Effect Size 0.61

A two-sample t-test revealed a statistically significant difference in weight loss between participants who followed Diet A (M = 5.67 kg, SD = 2.42) and those who followed Diet B (M = 3.89 kg, SD = 2.87), t(98) = 3.42, p = .001, 95% CI [1.15, 2.41]. The effect size was medium-to-large (Cohen's d = 0.67) according to Cohen's (1988) conventions.