

Prueba t

	100g				400g				1000g			
Participante	Ascendente	Descendente	Media	Fracción Weber	Ascendente	Descendente	Media	Fracción Weber	0.0525	Descendente	Media	Fracción Weber
1	12	45	28.5	0.285	7	35	21	0.0525	35	70	52.5	0.0525
2		45	45	0.45	12	60	36	0.09	20	10	15	0.015
3	45	30	37.5	0.375	12	45	28.5	0.07125	70	70	70	0.07
4	7	30	18.5	0.185	12	100	56	0.14	25	60	42.5	0.0425
5	27		27	0.27	25		25	0.0625	35		35	0.035
6	25		25	0.25	35		35	0.0875	50		50	0.05
7	10		10	0.1	50		50	0.125	90		90	0.09
8	27		27	0.27	25		25	0.0625	60		60	0.06
9	15	15	15	0.15	17	35	26	0.065	100	90	95	0.095
10	20	17	18.5	0.185	12	30	21	0.0525	90	50	70	0.07

<u>Frac Weber 100g</u>	<u>Frac Weber 400g</u>
0.285	0.0525
0.45	0.09
0.375	0.07125
0.185	0.14
0.27	0.0625
0.25	0.0875
0.1	0.125
0.27	0.0625
0.15	0.065
0.185	0.0525

$$s_{pool}^2 = \frac{(n_1 - 1)s_1^2 + (n_2 - 1)s_2^2}{(n_1 - 1) + (n_2 - 1)}$$

$$s_{\bar{X}_1 - \bar{X}_2} = \sqrt{\left(s_{pool}^2\right) \left(\frac{1}{n_1} + \frac{1}{n_2}\right)}$$

$$t_{obt} = \frac{(\bar{X}_1 - \bar{X}_2) - (\mu_1 - \mu_2)}{s_{\bar{X}_1 - \bar{X}_2}}$$

$$\bar{X}_1 = 0.252$$

$$s_1^2 = 0.009856$$

$$s_1 = 0.0992773891679269$$

$$\bar{X}_1 = 0.080875$$

$$s_2^2 = 0.000820015625$$

$$s_2 = 0.0286359149495873$$

$$s_{pool}^2 = \frac{(n_1 - 1)s_1^2 + (n_2 - 1)s_2^2}{(n_1 - 1) + (n_2 - 1)}$$

$$s_{pool}^2 = \frac{(n_1 - 1)s_1^2 + (n_2 - 1)s_2^2}{(n_1 - 1) + (n_2 - 1)}$$

$$s_{pool}^2 = \frac{[(10 - 1)0.009856] + [(10 - 1)0.000820015625]}{(10 - 1) + (10 - 1)}$$

$$s_{pool}^2 = \frac{[(9)0.009856] + [(9)0.000820015625]}{18}$$

$$s_{pool}^2 = \frac{0.088704 + 0.007380140625}{18}$$

$$s_{pool}^2 = \frac{0.09608414062500001}{18}$$

$$s_{pool}^2 = 0.0053380078125$$

$$s_{\bar{X}_1 - \bar{X}_2} = \sqrt{\left(s_{pool}^2\right) \left(\frac{1}{n_1} + \frac{1}{n_2}\right)}$$

$$s_{\bar{X}_1 - \bar{X}_2} = \sqrt{\left(s_{pool}^2\right) \left(\frac{1}{n_1} + \frac{1}{n_2}\right)}$$

$$s_{\bar{X}_1 - \bar{X}_2} = \sqrt{(0.005338007813) \left(\frac{1}{10} + \frac{1}{10}\right)}$$

$$s_{\bar{X}_1 - \bar{X}_2} = \sqrt{(0.005338007813) \left(\frac{2}{10}\right)}$$

$$s_{\bar{X}_1 - \bar{X}_2} = \sqrt{(0.0010676015625)}$$

$$s_{\bar{X}_1 - \bar{X}_2} = 0.03267417271332206$$

$$t_{obt} = \frac{(\bar{X}_1 - \bar{X}_2) - (\mu_1 - \mu_2)}{s_{\bar{X}_1 - \bar{X}_2}}$$

$$t_{obt} = \frac{(\bar{X}_1 - \bar{X}_2) - (\mu_1 - \mu_2)}{s_{\bar{X}_1 - \bar{X}_2}}$$

$$t_{obt} = \frac{(0.252 - 0.080875) - (0 - 0)}{0.03267417271332206}$$

$$t_{obt} = \frac{0.171125}{0.03267417271332206}$$

$$t_{obt} = 5.237316993498909$$

cum. prob one-tail two-tails	$t_{.50}$	$t_{.75}$	$t_{.80}$	$t_{.85}$	$t_{.90}$	$t_{.95}$	$t_{.975}$	$t_{.99}$	$t_{.995}$	$t_{.999}$	$t_{.9995}$
	0.50	0.25	0.20	0.15	0.10	0.05	0.025	0.01	0.005	0.001	0.0005
	1.00	0.50	0.40	0.30	0.20	0.10	0.05	0.02	0.01	0.002	0.001
df											
1	0.000	1.000	1.376	1.963	3.078	6.314	12.71	31.82	63.66	318.31	636.62
2	0.000	0.816	1.061	1.386	1.886	2.920	4.303	6.965	9.925	22.327	31.599
3	0.000	0.765	0.978	1.250	1.638	2.353	3.182	4.541	5.841	10.215	12.924
4	0.000	0.741	0.941	1.190	1.533	2.132	2.776	3.747	4.604	7.173	8.610
5	0.000	0.727	0.920	1.156	1.476	2.015	2.571	3.365	4.032	5.893	6.869
6	0.000	0.718	0.906	1.134	1.440	1.943	2.447	3.143	3.707	5.208	5.959
7	0.000	0.711	0.896	1.119	1.415	1.895	2.365	2.998	3.499	4.785	5.408
8	0.000	0.706	0.889	1.108	1.397	1.860	2.306	2.896	3.355	4.501	5.041
9	0.000	0.703	0.883	1.100	1.383	1.833	2.262	2.821	3.250	4.297	4.781
10	0.000	0.700	0.879	1.093	1.372	1.812	2.228	2.764	3.169	4.144	4.587
11	0.000	0.697	0.876	1.088	1.363	1.796	2.201	2.718	3.106	4.025	4.437
12	0.000	0.695	0.873	1.083	1.356	1.782	2.179	2.681	3.055	3.930	4.318
13	0.000	0.694	0.870	1.079	1.350	1.771	2.160	2.650	3.012	3.852	4.221
14	0.000	0.692	0.868	1.076	1.345	1.761	2.145	2.624	2.977	3.787	4.140
15	0.000	0.691	0.866	1.074	1.341	1.753	2.131	2.602	2.947	3.733	4.073
16	0.000	0.690	0.865	1.071	1.337	1.746	2.120	2.583	2.921	3.686	4.015
17	0.000	0.689	0.863	1.069	1.333	1.740	2.110	2.567	2.898	3.646	3.965
18	0.000	0.688	0.862	1.067	1.330	1.734	2.101	2.552	2.878	3.610	3.922
19	0.000	0.688	0.861	1.066	1.328	1.729	2.093	2.539	2.861	3.579	3.883
20	0.000	0.687	0.860	1.064	1.325	1.725	2.086	2.528	2.845	3.552	3.850
21	0.000	0.686	0.859	1.063	1.323	1.721	2.080	2.518	2.831	3.527	3.819
22	0.000	0.686	0.858	1.061	1.321	1.717	2.074	2.508	2.819	3.505	3.792
23	0.000	0.685	0.858	1.060	1.319	1.714	2.069	2.500	2.807	3.485	3.768
24	0.000	0.685	0.857	1.059	1.318	1.711	2.064	2.492	2.797	3.467	3.745
25	0.000	0.684	0.856	1.058	1.316	1.708	2.060	2.485	2.787	3.450	3.725
26	0.000	0.684	0.856	1.058	1.315	1.706	2.056	2.479	2.779	3.435	3.707
27	0.000	0.684	0.855	1.057	1.314	1.703	2.052	2.473	2.771	3.421	3.690
28	0.000	0.683	0.855	1.056	1.313	1.701	2.048	2.467	2.763	3.408	3.674
29	0.000	0.683	0.854	1.055	1.311	1.699	2.045	2.462	2.756	3.396	3.659
30	0.000	0.683	0.854	1.055	1.310	1.697	2.042	2.457	2.750	3.385	3.646
40	0.000	0.681	0.851	1.050	1.303	1.684	2.021	2.423	2.704	3.307	3.551
60	0.000	0.679	0.848	1.045	1.296	1.671	2.000	2.390	2.660	3.232	3.460
80	0.000	0.678	0.846	1.043	1.292	1.664	1.990	2.374	2.639	3.195	3.416
100	0.000	0.677	0.845	1.042	1.290	1.660	1.984	2.364	2.626	3.174	3.390
1000	0.000	0.675	0.842	1.037	1.282	1.646	1.962	2.330	2.581	3.098	3.300
Z	0.000	0.674	0.842	1.036	1.282	1.645	1.960	2.326	2.576	3.090	3.291
	0%	50%	60%	70%	80%	90%	95%	98%	99%	99.8%	99.9%
	Confidence Level										

<https://www.graphpad.com/quickcalcs/ttest1/?format=SD>