Significance using the XL t-test function

Mn

	72124 005 D	72124 005 W	Result		
row 4	982.0	928.3	777	83.7	% Solids
	905.0	1123.1	940	83.7	
	839.0	1031.1	863	83.7	
	835.0	984.5	824	83.7	
	954.0	1064.5	891	83.7	
row 8	909.0	982.1	822	83.7	

n	6	6
Mean	904.00	1018.92
St.dev	59.32	69.03

	Comparison		
Pooled st.dev., s	64.36		
Mean diff, d	114.92		
SE(diff)	37.158		
t statistic	**3.093**		
degrees of freedom	10		
critical value (.05)	**2.228**	**Conclusion:**	There is a real difference between the means

Target diff, 5%	45.20	t statistic	1.216	A 5% difference would not be significant
Target diff, 10%	90.40	t statistic	2.433	A 10% difference would be significant
Target diff, 12.5%	113.00	t statistic	3.041	A 12.5% difference would be significant

Extra sets of results may be inserted between rows 4 and 8. Inserting them before row 4 or after row 7 will exclude them from the data set.
Deleting row 4 or row 8 will destroy the links to the calculation

Significance using the XL t-test function

Mn

	72268 013 D	72268 013 W	Result	
row 4	2423.0	2276.2	1953	85.8 % Solids
	2691.0	2671.3	2292	85.8
	3126.0	2632.9	2259	85.8
	3078.0	2531.5	2172	85.8
	2852.0	2680.7	2300	85.8
row 8	2802.0	2623.5	2251	85.8

n	6	6
Mean	2828.67	2569.35
St.dev	258.98	153.05

	Comparison
Pooled st.dev., s	212.71
Mean diff, d	259.32
SE(diff)	122.809
t statistic	**2.112**
degrees of freedom	10
critical value (.05)	**2.228**

Conclusion: The difference between the means is not significant

Target diff, 5%	141.43	t statistic	1.152	A 5% difference would not be significant
Target diff, 10%	282.87	t statistic	2.303	A 10% difference would be significant
Target diff, 12.5%	353.58	t statistic	2.879	A 12.5% difference would be significant

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Significance using the XL t-test function

Mo

	72268 013 D	72268 013 W	Result	
row 4	12.8	7.4	1953	85.8 % Solids
	11.1	8.6	2292	85.8
	16.9	9.3	2259	85.8
	21.7	8.2	2172	85.8
	15.0	9.3	2300	85.8
row 8	14.9	8.6	2251	85.8

n	6	6
Mean	15.40	8.55
St.dev	3.68	0.73

	Comparison		
Pooled st.dev., s	2.65		
Mean diff, d	6.85		
SE(diff)	1.530		
t statistic	**4.476**		
degrees of freedom	10		
critical value (.05)	**2.228**	**Conclusion:**	There is a real difference between the means

Target diff, 5%	0.77	t statistic	0.503	A 5% difference would not be significant
Target diff, 10%	1.54	t statistic	1.006	A 10% difference would not be significant
Target diff, 12.5%	1.93	t statistic	1.258	A 12.5% difference would not be significant

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Significance using the XL t-test function
Pb

	72268 013 D	72268 013 W	Result		
row 4	396.0	296.0	254		85.8 % Solids
	431.0	384.6	330		85.8
	560.0	354.3	304		85.8
	523.0	331.0	284		85.8
	488.0	361.3	310		85.8
row 8	438.0	346.2	297		85.8

n	6	6		
Mean	472.67	345.57		
St.dev	61.99	30.05		

	Comparison		
Pooled st.dev., s	48.71		
Mean diff, d	127.10		
SE(diff)	28.122		
t statistic	**4.519**		
degrees of freedom	10		
critical value (.05)	**2.228**	**Conclusion:**	There is a real difference between the means

Target diff, 5%	23.63	t statistic	0.840 A 5% difference would not be significant
Target diff, 10%	47.27	t statistic	1.681 A 10% difference would not be significant
Target diff, 12.5%	59.08	t statistic	2.101 A 12.5% difference would not be significant

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Significance using the XL t-test function
Pb

	72124 005 D	72124 005 W	Result		
row 4	13.0	12.1	10.1	83.7 % Solids
	12.3	13.4	11.2	83.7
	11.5	16.4	13.7	83.7
	11.6	13.0	10.9	83.7
	13.3	13.7	11.5	83.7
row 8	13.0	11.8	9.88	83.7

n	6	6
Mean	12.45	13.40
St.dev	0.77	1.64

	Comparison		
Pooled st.dev., s	1.28
Mean diff, d	0.95
SE(diff)	0.739
t statistic	**1.282**
degrees of freedom	10
critical value (.05)	**2.228**	**Conclusion:**	The difference between the means is not significant

Target diff, 5%	0.62	t statistic	0.843 A 5% difference would not be significant
Target diff, 10%	1.25	t statistic	1.686 A 10% difference would not be significant
Target diff, 12.5%	1.56	t statistic	2.107 A 12.5% difference would not be significant

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Significance using the XL t-test function

Se

	72268 013 D	72268 013 W	Result		
row 4	1.2	1.2	1.0		85.8 % Solids
	1.8	1.3	1.1		85.8
	2.2	1.6	1.4		85.8
	2.1	1.6	1.4		85.8
	1.3	1.9	1.6		85.8
row 8	1.5	1.7	1.5		85.8

n	6	6		
Mean	1.68	1.55		
St.dev	0.42	0.27		

	Comparison		
Pooled st.dev., s	0.35		
Mean diff, d	0.13		
SE(diff)	0.203		
t statistic	**0.636**		
degrees of freedom	10		
critical value (.05)	**2.228**	**Conclusion:**	The difference between the means is not significant

Target diff, 5%	0.08	t statistic	0.414	A 5% difference would not be significant
Target diff, 10%	0.17	t statistic	0.828	A 10% difference would not be significant
Target diff, 12.5%	0.21	t statistic	1.035	A 12.5% difference would not be significant

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Significance using the XL t-test function
Sn

	72268 013 D	72268 013 W	Result	
row 4	27.8	20.9	17.9	85.8 % Solids
	26.1	29.8	25.6	85.8
	36.1	23.4	20.1	85.8
	41.8	23.8	20.4	85.8
	34.2	24.6	21.1	85.8
row 8	29.4	24.6	21.1	85.8

n	6	6
Mean	32.57	24.51
St.dev	5.92	2.95

	Comparison	
Pooled st.dev., s	4.67	
Mean diff, d	8.05	
SE(diff)	2.698	
t statistic	**2.985**	
degrees of freedom	10	
critical value (.05)	**2.228**	**Conclusion:** There is a real difference between the means

Target diff, 5%	1.63	t statistic	0.604	A 5% difference would not be significant
Target diff, 10%	3.26	t statistic	1.207	A 10% difference would not be significant
Target diff, 12.5%	4.07	t statistic	1.509	A 12.5% difference would not be significant

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Significance using the XL t-test function

V

	72268 013 D	72268 013 W	Result		
row 4	93.2	77.2	66.2		85.8 % Solids
	103.0	91.6	78.6		85.8
	125.0	91.4	78.4		85.8
	125.0	85.3	73.2		85.8
	111.0	93.2	80		85.8
row 8	112.0	89.6	76.9		85.8

	72268 013 D	72268 013 W
n	6	6
Mean	111.53	88.05
St.dev	12.43	5.99

	Comparison	
Pooled st.dev., s	9.75	
Mean diff, d	23.48	
SE(diff)	5.632	
t statistic	**4.169**	
degrees of freedom	10	
critical value (.05)	**2.228**	Conclusion: There is a real difference between the means

Target diff, 5%	5.58	t statistic	0.990 A 5% difference would not be significant
Target diff, 10%	11.15	t statistic	1.981 A 10% difference would not be significant
Target diff, 12.5%	13.94	t statistic	2.476 A 12.5% difference would be significant

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Significance using the XL t-test function
V

	72124 005 D	72124 005 W	Result		
row 4	22.5	22.3	18.7		83.7 % Solids
	22.0	24.6	20.6		83.7
	19.9	25.3	21.2		83.7
	21.1	30.5	25.5		83.7
	28.7	29.3	24.5		83.7
row 8	28.1	24.3	20.3		83.7

n	6	6	
Mean	23.72	26.05	
St.dev	3.74	3.14	

	Comparison		
Pooled st.dev., s	3.45		
Mean diff, d	2.33		
SE(diff)	1.994		
t statistic	**1.168**		
degrees of freedom	10		
critical value (.05)	**2.228**	**Conclusion:**	The difference between the means is not significant

Target diff, 5%	1.19	t statistic	0.595	A 5% difference would not be significant
Target diff, 10%	2.37	t statistic	1.189	A 10% difference would not be significant
Target diff, 12.5%	2.96	t statistic	1.486	A 12.5% difference would not be significant

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