

Classroom Sample	Semester	Year	Grade-Level Assessed	Content Area Assessed	Pre-SCORE (X)	Number of P-12 Students	Post-SCORE (Y)	"Y-X" Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
Classroom 1	Winter	2017	5th Grade	Language Arts	9.00	25	88.00	79.00	-79.00	6241
Classroom 2	Winter	2017	6th Grade	Integrated Science	45.00	19	92.00	47.00	-47.00	2209
Classroom 3	Winter	2017	Kindergarten	Language Arts	75.00	22	89.00	14.00	-14.00	196
Classroom 4	Winter	2017	2nd Grade	Language Arts	64.00	22	77.00	13.00	-13.00	169
Classroom 5	Winter	2017	2nd Grade	Integrated Science	88.00	20	92.00	4.00	-4.00	16
Classroom 6	Winter	2017	5th Grade	Mathematics	38.00	22	82.72	44.72	-44.72	1999.8784
Classroom 7	Winter	2017	6th Grade	Integrated Science	54.00	28	71.00	17.00	-17.00	289
Classroom 8	Winter	2017	5th Grade	Mathematics	30.00	29	84.00	54.00	-54.00	2916
Classroom 9	Winter	2017	5th Grade	Language Arts	36.00	21	68.00	32.00	-32.00	1024
Classroom 10	Winter	2017	Kindergarten	Language Arts	67.00	20	84.00	17.00	-17.00	289
Classroom 11	Winter	2017	5th Grade	Social Studies	68.00	24	80.00	12.00	-12.00	144
Classroom 12	Winter	2017	3rd Grade	Social Studies	36.96	22	40.09	3.13	-3.13	9.7969
Classroom 13	Winter	2017	3rd Grade	Social Studies	57.30	25	86.00	28.70	-28.70	823.69
Classroom 14	Winter	2017	5th Grade	Mathematics	29.67	27	68.96	39.29	-39.29	1543.7041
Classroom 15	Winter	2017	3rd Grade	Social Studies	24.00	17	56.00	32.00	-32.00	1024
Classroom 16	Winter	2017	3rd Grade	Language Arts	75.40	23	82.00	6.60	-6.60	43.56
Classroom 17	Winter	2017	Kindergarten	Language Arts	67.39	23	90.21	22.82	-22.82	520.7524
Classroom 18	Winter	2017	2nd Grade	Language Arts	70.00	18	80.00	10.00	-10.00	100
Classroom 19	Winter	2017	2nd Grade	Integrated Science	84.30	24	93.20	8.90	-8.90	79.21
Classroom 20	Winter	2017	2nd Grade	Language Arts	75.00	22	94.00	19.00	-19.00	361
Classroom 21	Winter	2017	3rd Grade	Social Studies	72.00	19	82.00	10.00	-10.00	100
Classroom 22	Winter	2017	4th Grade	Language Arts	33.00	27	85.00	52.00	-52.00	2704
Classroom 23	Winter	2017	6th Grade	Mathematics	51.50	41	74.20	22.70	-22.70	515.29
Classroom 24	Winter	2017	1st Grade	Social Studies	60.00	23	72.00	12.00	-12.00	144
Classroom 25	Winter	2017	5th Grade	Integrated Science	4.17	24	91.60	87.43	-87.43	7644.0049
Classroom 26	Winter	2017	1st Grade	Language Arts	40.00	25	60.00	20.00	-20.00	400
Classroom 27	Winter	2017	4th Grade	Language Arts	28.00	24	77.00	49.00	-49.00	2401
Classroom 28	Winter	2017	4th Grade	Language Arts	50.00	18	71.00	21.00	-21.00	441
Classroom 29	Winter	2017	1st Grade	Integrated Science	51.00	14	82.50	31.50	-31.50	992.25
Classroom 30	Winter	2017	3rd Grade	Social Studies	36.23	24	82.45	46.22	-46.22	2136.2884
Classroom 31	Winter	2017	Kindergarten	Language Arts	54.20	24	86.10	31.90	-31.90	1017.61
Classroom 32	Winter	2017	Kindergarten	Language Arts	65.00	21	71.00	6.00	-6.00	36
Classroom 33	Winter	2017	5th Grade	Language Arts	11.00	23	42.00	31.00	-31.00	961
Classroom 34	Winter	2017	4th Grade	Social Studies	66.60	18	92.50	25.90	-25.90	670.81
Classroom 35	Winter	2017	3rd Grade	Language Arts	39.36	25	85.88	46.52	-46.52	2164.1104
Classroom 36	Winter	2017	Kindergarten	Language Arts	66.00	23	89.00	23.00	-23.00	529
Classroom 37	Winter	2017	4th Grade	Language Arts	48.00	19	89.00	41.00	-41.00	1681
Classroom 38	Winter	2017	Kindergarten	Integrated Science	54.00	20	97.00	43.00	-43.00	1849
Classroom 39	Winter	2017	5th Grade	Social Studies	62.00	17	68.80	6.80	-6.80	46.24
Classroom 40	Winter	2017	Kindergarten	Social Studies	62.00	17	81.00	19.00	-19.00	361
Classroom 41	Winter	2017	1st Grade	Integrated Science	64.00	53	79.50	15.50	-15.50	240.25

Classroom Sample	Semester	Year	Grade-Level Assessed	Content Area Assessed	Pre-SCORE (X)	Number of P-12 Students	Post-SCORE (Y)	"Y-X" Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
Classroom 42	Winter	2017	4th Grade	Social Studies	39.00	22	84.00	45.00	-45.00	2025
Classroom 43	Winter	2017	1st Grade	Social Studies	45.50	22	68.20	22.70	-22.70	515.29
Classroom 44	Winter	2017	5th Grade	Mathematics	51.10	19	62.40	11.30	-11.30	127.69
Classroom 45	Winter	2017	1st Grade	Social Studies	61.90	21	87.50	25.60	-25.60	655.36
Classroom 46	Winter	2017	Kindergarten	Mathematics	16.00	15	94.00	78.00	-78.00	6084
Classroom 47	Winter	2017	5th Grade	Integrated Science	36.00	24	78.00	42.00	-42.00	1764
Classroom 48	Winter	2017	3rd Grade	Integrated Science	24.00	21	80.00	56.00	-56.00	3136
Classroom 49	Winter	2017	3rd Grade	Social Studies	9.00	27	63.80	54.80	-54.80	3003.04
Classroom 50	Winter	2017	6th Grade	Integrated Science	84.00	23	94.00	10.00	-10.00	100
Classroom 51	Winter	2017	5th Grade	Social Studies	21.00	25	67.00	46.00	-46.00	2116
Classroom 52	Winter	2017	5th Grade	Mathematics	78.00	27	89.00	11.00	-11.00	121
Classroom 53	Winter	2017	5th Grade	Social Studies	35.89	21	58.79	22.90	-22.90	524.41
Classroom 54	Winter	2017	5th Grade	Mathematics	41.00	13	68.00	27.00	-27.00	729
Classroom 55	Winter	2017	3rd Grade	Language Arts	49.80	26	89.90	40.10	-40.10	1608.01
Classroom 56	Winter	2017	Kindergarten	Language Arts	69.00	17	80.00	11.00	-11.00	121
Classroom 57	Winter	2017	4th Grade	Social Studies	44.00	16	55.00	11.00	-11.00	121
Classroom 58	Winter	2017	3rd Grade	Social Studies	82.00	24	86.00	4.00	-4.00	16
Classroom 59	Winter	2017	2nd Grade	Integrated Science	86.50	26	90.90	4.40	-4.40	19.36
Classroom 60	Winter	2017	5th Grade	Language Arts	45.00	31	91.00	46.00	-46.00	2116
Classroom 61	Winter	2017	2nd Grade	Integrated Science	44.00	23	63.00	19.00	-19.00	361
Classroom 62	Winter	2017	2nd Grade	Language Arts	12.00	18	45.00	33.00	-33.00	1089
Classroom 63	Winter	2017	5th Grade	Mathematics	53.00	27	83.00	30.00	-30.00	900
Classroom 64	Winter	2017	3rd Grade	Language Arts	50.40	22	88.00	37.60	-37.60	1413.76
Classroom 65	Winter	2017	1st Grade	Language Arts	60.00	22	85.00	25.00	-25.00	625
Classroom 66	Winter	2017	1st Grade	Social Studies	61.00	19	79.00	18.00	-18.00	324
Classroom 67	Winter	2017	1st Grade	Language Arts	78.00	21	93.00	15.00	-15.00	225
Classroom 68	Winter	2017	3rd Grade	Language Arts	25.00	26	95.00	70.00	-70.00	4900
Classroom 69	Winter	2017	2nd Grade	Integrated Science	45.00	17	63.00	18.00	-18.00	324
Classroom 70	Spring/Sun	2017	7th Grade	English	38.00	80	84.00	46.00	-46.00	2116
Classroom 71	Spring/Sun	2017	11th Grade	Mathematics	52.50	28	82.00	29.50	-29.50	870.25
Classroom 72	Spring/Sun	2017	8th Grade	Mathematics	33.30	17	78.00	44.70	-44.70	1998.09
Classroom 73	Spring/Sun	2017	9th Grade	Art	36.00	45	80.00	44.00	-44.00	1936
Classroom 74	Spring/Sun	2017	10th Grade	Social Studies	37.00	78	90.00	53.00	-53.00	2809
Classroom 75	Spring/Sun	2017	8th Grade	Social Studies	35.00	64	82.00	47.00	-47.00	2209
Classroom 76	Spring/Sun	2017	Kindergarten	Music	25.00	18	75.00	50.00	-50.00	2500
Classroom 77	Spring/Sun	2017	10th Grade	German	25.00	26	65.00	40.00	-40.00	1600
Classroom 78	Spring/Sun	2017	10th Grade	Social Studies	25.00	70	92.00	67.00	-67.00	4489
Classroom 79	Spring/Sun	2017	8th Grade	Music	62.50	38	83.00	20.50	-20.50	420.25
Classroom 80	Spring/Sun	2017	6th Grade	Physical Education	74.00	50	100.00	26.00	-26.00	676
Classroom 81	Spring/Sun	2017	11th Grade	Mathematics	55.00	61	72.00	17.00	-17.00	289
Classroom 82	Spring/Sun	2017	9th Grade	Not indicated	58.00	12	75.00	17.00	-17.00	289

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Classroom 83	Spring/Sun	2017	11th Grade	Social Studies	73.00	119	82.00	9.00	-9.00	81
Classroom 84	Spring/Sun	2017	7th Grade	Social Studies	36.00	138	52.00	16.00	-16.00	256
Classroom 85	Spring/Sun	2017	9th Grade	Social Studies	58.00	85	73.00	15.00	-15.00	225
Classroom 86	Spring/Sun	2017	11th Grade	Social Studies	67.00	67	85.00	18.00	-18.00	324
Classroom 87	Spring/Sun	2017	10th Grade	Social Studies	33.00	59	66.00	33.00	-33.00	1089
Classroom 88	Spring/Sun	2017	9th Grade	Biology	40.00	94	83.00	43.00	-43.00	1849
Classroom 89	Spring/Sun	2017	9th Grade	Biology	39.40	116	81.40	42.00	-42.00	1764
Classroom 90	Spring/Sun	2017	9th Grade	English	20.95	115	77.40	56.45	-56.45	3186.6025
Classroom 91	Spring/Sun	2017	9th Grade	Earth Science	16.00	87	86.30	70.30	-70.30	4942.09
Classroom 92	Spring/Sun	2017	10th Grade	Mathematics	3.90	32	84.00	80.10	-80.10	6416.01
Classroom 93	Spring/Sun	2017	6th Grade	Not indicated	34.00	165	86.00	52.00	-52.00	2704
Classroom 94	Spring/Sun	2017	9th Grade	Biology	33.30	135	83.00	49.70	-49.70	2470.09
Classroom 95	Spring/Sun	2017	7th Grade	Physical Education	45.00	134	89.00	44.00	-44.00	1936
Classroom 96	Spring/Sun	2017	7th Grade	Social Studies	76.00	82	81.00	5.00	-5.00	25
Classroom 97	Spring/Sun	2017	9th Grade	Music	70.00	26	76.00	6.00	-6.00	36
Classroom 98	Spring/Sun	2017	10th Grade	Social Studies	59.00	57	83.00	24.00	-24.00	576
Classroom 99	Spring/Sun	2017	8th Grade	Music	53.00	48	80.00	27.00	-27.00	729
Classroom 100	Spring/Sun	2017	7th Grade	Music	46.00	60	88.00	42.00	-42.00	1764
Classroom 101	Spring/Sun	2017	10th Grade	Mathematics	55.00	113	82.00	27.00	-27.00	729
Classroom 102	Spring/Sun	2017	6th Grade	Music	75.00	35	89.00	14.00	-14.00	196
Classroom 103	Spring/Sun	2017	10th Grade	Earth Science	67.00	68	86.00	19.00	-19.00	361
Classroom 104	Spring/Sun	2017	10th Grade	Social Studies	46.00	27	84.20	38.20	-38.20	1459.24
Classroom 105	Spring/Sun	2017	10th Grade	English	50.00	56	85.00	35.00	-35.00	1225
Classroom 106	Spring/Sun	2017	1st Grade	Music	0.00	27	100.00	100.00	-100.00	10000
Classroom 107	Spring/Sun	2017	6th Grade	Music	0.00	70	100.00	100.00	-100.00	10000
Classroom 108	Spring/Sun	2017	9th Grade	French	0.00	32	93.75	93.75	-93.75	8789.0625
Classroom 109	Spring/Sun	2017	6th Grade	Social Studies	38.50	28	72.00	33.50	-33.50	1122.25
Classroom 110	Spring/Sun	2017	11th Grade	Not indicated	54.00	20	77.00	23.00	-23.00	529
Classroom 111	Spring/Sun	2017	12th Grade	English	48.00	26	72.00	24.00	-24.00	576
Classroom 112	Spring/Sun	2017	12th Grade	English	65.00	54	89.00	24.00	-24.00	576
Classroom 113	Spring/Sun	2017	Kindergarten	Physical Education	0.00	25	100.00	100.00	-100.00	10000
Classroom 114	Spring/Sun	2017	6th Grade	Social Studies	47.00	63	73.00	26.00	-26.00	676
Classroom 115	Spring/Sun	2017	6th Grade	English	77.50	24	82.70	5.20	-5.20	27.04
Classroom 116	Spring/Sun	2017	2nd Grade	Music	0.00	49	97.00	97.00	-97.00	9409
Classroom 117	Spring/Sun	2017	12th Grade	Music	7.00	45	80.00	73.00	-73.00	5329
Classroom 118	Fall	2017	1st Grade	CSAT	48.00	19	78.00	30.00	-30.00	900
Classroom 119	Fall	2017	2nd Grade	Social Studies	82.00	27	94.00	12.00	-12.00	144
Classroom 120	Fall	2017	1st Grade	Integrated Science	84.00	23	96.00	12.00	-12.00	144
Classroom 121	Fall	2017	3rd Grade	CSAT	63.00	25	86.50	23.50	-23.50	552.25
Classroom 122	Fall	2017	1st Grade	Integrated Science	58.00	20	88.00	30.00	-30.00	900
Classroom 123	Fall	2017	2nd Grade	CSAT	73.00	24	100.00	27.00	-27.00	729

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Classroom 124	Fall	2017	1st Grade	Language Arts	42.50	18	98.00	55.50	-55.50	3080.25
Classroom 125	Fall	2017	3rd Grade	CSAT	54.00	22	91.00	37.00	-37.00	1369
Classroom 126	Fall	2017	Kindergarten	CSAT	39.00	22	94.00	55.00	-55.00	3025
Classroom 127	Fall	2017	Kindergarten	CSAT	48.00	15	93.00	45.00	-45.00	2025
Classroom 128	Fall	2017	5th Grade	Mathematics	77.16	27	88.60	11.44	-11.44	130.8736
Classroom 129	Fall	2017	Kindergarten	CSAT	60.00	21	95.00	35.00	-35.00	1225
Classroom 130	Fall	2017	4th Grade	CSAT	40.00	24	65.00	25.00	-25.00	625
Classroom 131	Fall	2017	5th Grade	Mathematics	25.00	26	88.00	63.00	-63.00	3969
Classroom 132	Fall	2017	5th Grade	Mathematics	26.00	23	93.00	67.00	-67.00	4489
Classroom 133	Fall	2017	5th Grade	Social Studies	54.00	21	94.00	40.00	-40.00	1600
Classroom 134	Fall	2017	1st Grade	Integrated Science	27.60	21	92.60	65.00	-65.00	4225
Classroom 135	Fall	2017	5th Grade	Mathematics	35.00	31	76.00	41.00	-41.00	1681
Classroom 136	Fall	2017	5th Grade	Mathematics	23.00	28	86.00	63.00	-63.00	3969
Classroom 137	Fall	2017	2nd Grade	CSAT	67.40	15	98.70	31.30	-31.30	979.69
Classroom 138	Fall	2017	Kindergarten	CSAT	74.00	27	90.67	16.67	-16.67	277.8889
Classroom 139	Fall	2017	1st Grade	Social Studies	19.00	25	49.00	30.00	-30.00	900
Classroom 140	Fall	2017	3rd Grade	CSAT	14.00	28	83.00	69.00	-69.00	4761
Classroom 141	Fall	2017	3rd Grade	Language Arts	55.70	17	82.80	27.10	-27.10	734.41
Classroom 142	Fall	2017	5th Grade	Language Arts	23.00	24	76.00	53.00	-53.00	2809
Classroom 143	Fall	2017	5th Grade	Social Studies	2.00	22	82.00	80.00	-80.00	6400
Classroom 144	Fall	2017	2nd Grade	CSAT	48.00	22	72.00	24.00	-24.00	576
Classroom 145	Fall	2017	1st Grade	Language Arts	37.50	24	72.08	34.58	-34.58	1195.7764
Classroom 146	Fall	2017	3rd Grade	CSAT	61.00	24	93.00	32.00	-32.00	1024
Classroom 147	Fall	2017	Kindergarten	Language Arts	19.00	25	80.00	61.00	-61.00	3721
Classroom 148	Fall	2017	Kindergarten	Language Arts	45.00	20	70.00	25.00	-25.00	625
Classroom 149	Fall	2017	1st Grade	Social Studies	6.00	18	67.00	61.00	-61.00	3721
Classroom 150	Fall	2017	3rd Grade	CSAT	37.00	26	83.00	46.00	-46.00	2116
Classroom 151	Fall	2017	5th Grade	CSAT	46.00	24	92.00	46.00	-46.00	2116
Classroom 152	Fall	2017	4th Grade	CSAT	38.00	20	83.00	45.00	-45.00	2025
Classroom 153	Fall	2017	Kindergarten	CSAT	62.00	28	76.00	14.00	-14.00	196
Classroom 154	Fall	2017	4th Grade	Integrated Science	59.00	26	80.00	21.00	-21.00	441
Classroom 155	Fall	2017	3rd Grade	CSAT	0.00	24	91.00	91.00	-91.00	8281
Classroom 156	Fall	2017	1st Grade	CSAT	50.00	22	65.00	15.00	-15.00	225
Classroom 157	Fall	2017	5th Grade	CSAT	28.00	27	52.00	24.00	-24.00	576
Classroom 158	Fall	2017	4th Grade	Integrated Science	58.00	19	82.00	24.00	-24.00	576
Classroom 159	Fall	2017	1st Grade	Social Studies	29.00	24	92.00	63.00	-63.00	3969
Classroom 160	Fall	2017	4th Grade	CSAT	78.00	23	80.00	2.00	-2.00	4
Classroom 161	Fall	2017	2nd Grade	Integrated Science	70.00	23	75.00	5.00	-5.00	25
Classroom 162	Fall	2017	Kindergarten	CSAT	46.00	18	63.00	17.00	-17.00	289
Classroom 163	Fall	2017	Kindergarten	Language Arts	67.00	23	71.00	4.00	-4.00	16
Classroom 164	Fall	2017	5th Grade	Mathematics	50.00	11	79.00	29.00	-29.00	841

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Classroom 165	Fall	2017	5th Grade	Not indicated	70.00	28	83.00	13.00	-13.00	169
Classroom 166	Fall	2017	4th Grade	CSAT	60.00	28	75.00	15.00	-15.00	225
Classroom 167	Fall	2017	2nd Grade	CSAT	53.00	25	57.00	4.00	-4.00	16
Classroom 168	Fall	2017	Kindergarten	Language Arts	94.00	24	98.00	4.00	-4.00	16
Classroom 169	Fall	2017	4th Grade	Language Arts	65.00	44	75.00	10.00	-10.00	100
Classroom 170	Fall	2017	5th Grade	Mathematics	38.89	22	57.07	18.18	-18.18	330.5124
Classroom 171	Fall	2017	3rd Grade	CSAT	28.00	26	82.00	54.00	-54.00	2916
Classroom 172	Fall	2017	Kindergarten	CSAT	67.00	21	89.00	22.00	-22.00	484
Classroom 173	Fall	2017	5th Grade	Integrated Science	47.00	30	78.00	31.00	-31.00	961
Classroom 174	Fall	2017	5th Grade	Mathematics	57.00	26	83.00	26.00	-26.00	676
Classroom 175	Fall	2017	3rd Grade	CSAT	45.00	25	95.00	50.00	-50.00	2500
Classroom 176	Fall	2017	Kindergarten	CSAT	36.00	25	90.00	54.00	-54.00	2916
Classroom 177	Fall	2017	5th Grade	Mathematics	59.00	24	90.00	31.00	-31.00	961
Classroom 178	Fall	2017	2nd Grade	Integrated Science	27.00	27	72.00	45.00	-45.00	2025
Classroom 179	Fall	2017	5th Grade	Mathematics	67.50	27	68.50	1.00	-1.00	1
Classroom 180	Fall	2017	1st Grade	CSAT	67.00	25	92.00	25.00	-25.00	625
Classroom 181	Fall	2017	4th Grade	Social Studies	21.00	23	93.00	72.00	-72.00	5184
Classroom 182	Fall	2017	4th Grade	Integrated Science	49.00	28	71.00	22.00	-22.00	484
Classroom 183	Fall	2017	4th Grade	Integrated Science	32.00	29	74.00	42.00	-42.00	1764
Classroom 184	Fall	2017	1st Grade	CSAT	35.00	21	75.00	40.00	-40.00	1600
Classroom 185	Fall	2017	2nd Grade	CSAT	52.00	23	71.00	19.00	-19.00	361
Classroom 186	Fall	2017	1st Grade	Language Arts	20.00	27	97.00	77.00	-77.00	5929
Classroom 187	Fall	2017	5th Grade	Mathematics	36.00	30	89.00	53.00	-53.00	2809
Classroom 188	Fall	2017	5th Grade	Mathematics	48.00	30	77.00	29.00	-29.00	841
Classroom 189	Fall	2017	5th Grade	Integrated Science	40.00	29	90.00	50.00	-50.00	2500
Classroom 190	Fall	2017	5th Grade	Social Studies	47.00	36	94.00	47.00	-47.00	2209
Classroom 191	Fall	2017	Kindergarten	Language Arts	30.00	23	83.00	53.00	-53.00	2809
Classroom 192	Fall	2017	5th Grade	Social Studies	35.00	27	50.00	15.00	-15.00	225
Classroom 193	Fall	2017	1st Grade	Not indicated	44.00	17	65.00	21.00	-21.00	441
Classroom 194	Fall	2017	2nd Grade	Integrated Science	49.52	21	85.00	35.48	-35.48	1258.8304
Classroom 195	Fall	2017	Kindergarten	CSAT	58.00	22	76.00	18.00	-18.00	324
Classroom 196	Fall	2017	5th Grade	CSAT	50.20	27	57.20	7.00	-7.00	49
Classroom 197	Fall	2017	5th Grade	Mathematics	76.00	28	82.00	6.00	-6.00	36
Classroom 198	Fall	2017	Kindergarten	CSAT	35.00	23	66.00	31.00	-31.00	961
Classroom 199	Fall	2017	5th Grade	CSAT	3.00	25	77.00	74.00	-74.00	5476
Classroom 200	Fall	2017	1st Grade	Integrated Science	76.00	26	93.00	17.00	-17.00	289
Classroom 201	Fall	2017	2nd Grade	Integrated Science	66.00	18	84.00	18.00	-18.00	324
Classroom 202	Fall	2017	1st Grade	Language Arts	82.00	19	91.00	9.00	-9.00	81
Classroom 203	Fall	2017	4th Grade	Language Arts	43.00	28	86.00	43.00	-43.00	1849
Classroom 204	Fall	2017	Kindergarten	CSAT	6.00	16	100.00	94.00	-94.00	8836
Classroom 205	Fall	2017	Kindergarten	CSAT	82.00	15	94.00	12.00	-12.00	144

Classroom Sample	Semester	Year	Grade-Level Assessed	Content Area Assessed	Pre-SCORE (X)	Number of P-12 Students	Post-SCORE (Y)	"Y-X" Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
Classroom 206	Fall	2017	5th Grade	Mathematics	36.00	28	74.00	38.00	-38.00	1444

Number of Tests = N	Number of P-12 Students:	Average % Improvement:	"X-Y" or "ED":	"(X-Y)^2" or "ED^2"
206	6667	34.08	-7020.68	343026.82
			L =Top Value ( $\sum d/N$ )	-34.08
			M =Middle value	103755.23
			O =Bottom Value	42230.00
			P =Square root of M/O	1.57
			<b>T = (L/P)</b>	<b>-21.74</b>
			$\alpha = 0.05$	<b>Critical T = 1.645</b>
				<b>Significant</b>
			<b>T/Square Root of N = Effect</b>	<b>-1.515</b>

$$t = \frac{\frac{\sum d}{N}}{\sqrt{\frac{\sum d^2 - \frac{(\sum d)^2}{N}}{N(N-1)}}$$

Classroom Sample	Semester	Year	Grade-Level Assessed	Content Area Assessed	Pre-SCORE (X)	Number of P-12 Students	Post-SCORE (Y)	"Y-X" Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
Classroom 3	Winter	2017	Kindergarten	Language Arts	75.00	22	89.00	14.00	-14.00	196
Classroom 10	Winter	2017	Kindergarten	Language Arts	67.00	20	84.00	17.00	-17.00	289
Classroom 17	Winter	2017	Kindergarten	Language Arts	67.39	23	90.21	22.82	-22.82	520.7524
Classroom 31	Winter	2017	Kindergarten	Language Arts	54.20	24	86.10	31.90	-31.90	1017.61
Classroom 32	Winter	2017	Kindergarten	Language Arts	65.00	21	71.00	6.00	-6.00	36
Classroom 36	Winter	2017	Kindergarten	Language Arts	66.00	23	89.00	23.00	-23.00	529
Classroom 38	Winter	2017	Kindergarten	Integrated Science	54.00	20	97.00	43.00	-43.00	1849
Classroom 40	Winter	2017	Kindergarten	Social Studies	62.00	17	81.00	19.00	-19.00	361
Classroom 46	Winter	2017	Kindergarten	Mathematics	16.00	15	94.00	78.00	-78.00	6084
Classroom 56	Winter	2017	Kindergarten	Language Arts	69.00	17	80.00	11.00	-11.00	121
Classroom 76	Spring/Sun	2017	Kindergarten	Music	25.00	18	75.00	50.00	-50.00	2500
Classroom 113	Spring/Sun	2017	Kindergarten	Physical Education	0.00	25	100.00	100.00	-100.00	10000
Classroom 126	Fall	2017	Kindergarten	CSAT	39.00	22	94.00	55.00	-55.00	3025
Classroom 127	Fall	2017	Kindergarten	CSAT	48.00	15	93.00	45.00	-45.00	2025
Classroom 129	Fall	2017	Kindergarten	CSAT	60.00	21	95.00	35.00	-35.00	1225
Classroom 138	Fall	2017	Kindergarten	CSAT	74.00	27	90.67	16.67	-16.67	277.8889
Classroom 147	Fall	2017	Kindergarten	Language Arts	19.00	25	80.00	61.00	-61.00	3721
Classroom 148	Fall	2017	Kindergarten	Language Arts	45.00	20	70.00	25.00	-25.00	625
Classroom 153	Fall	2017	Kindergarten	CSAT	62.00	28	76.00	14.00	-14.00	196
Classroom 162	Fall	2017	Kindergarten	CSAT	46.00	18	63.00	17.00	-17.00	289
Classroom 163	Fall	2017	Kindergarten	Language Arts	67.00	23	71.00	4.00	-4.00	16
Classroom 168	Fall	2017	Kindergarten	Language Arts	94.00	24	98.00	4.00	-4.00	16
Classroom 172	Fall	2017	Kindergarten	CSAT	67.00	21	89.00	22.00	-22.00	484
Classroom 176	Fall	2017	Kindergarten	CSAT	36.00	25	90.00	54.00	-54.00	2916
Classroom 191	Fall	2017	Kindergarten	Language Arts	30.00	23	83.00	53.00	-53.00	2809
Classroom 195	Fall	2017	Kindergarten	CSAT	58.00	22	76.00	18.00	-18.00	324
Classroom 198	Fall	2017	Kindergarten	CSAT	35.00	23	66.00	31.00	-31.00	961
Classroom 204	Fall	2017	Kindergarten	CSAT	6.00	16	100.00	94.00	-94.00	8836
Classroom 205	Fall	2017	Kindergarten	CSAT	82.00	15	94.00	12.00	-12.00	144

<b>Number of Tests = N</b>	<b>Number of P-12 Students:</b>	<b>Average % Improvement:</b>	<b>"X-Y" or "ED":</b>	<b>"(X-Y)^2" or "ED^2"</b>
29	613	33.67	-976.39	51393.25
			L =Top Value (Σd/N)	-33.67
			M =Middle value	18519.55
			O =Bottom Value	812.00
			P =Square root of M/O	4.78

$$\frac{\sum d}{N}$$

Classroom Sample	Semester	Year	Grade-Level Assessed	Content Area Assessed	Pre-SCORE (X)	Number of P-12 Students	Post-SCORE (Y)	"Y-X" Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
					$t = \frac{\bar{Y} - \bar{X}}{\sqrt{\frac{\sum d^2 - \frac{(\sum d)^2}{N}}{N(N-1)}}}$			T = (L/P)	-7.05	
								$\alpha = 0.05$	Critical T = 1.645	
									Significant	
								T/Square Root of N = Effect	-1.309	

Classroom Sample	Semester	Year	Grade-Level Assessed	Content Area Assessed	Pre-SCORE (X)	Number of P-12 Students	Post-SCORE (Y)	"Y-X" Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
Classroom 24	Winter	2017	1st Grade	Social Studies	60.00	23	72.00	12.00	-12.00	144
Classroom 26	Winter	2017	1st Grade	Language Arts	40.00	25	60.00	20.00	-20.00	400
Classroom 29	Winter	2017	1st Grade	Integrated Science	51.00	14	82.50	31.50	-31.50	992.25
Classroom 41	Winter	2017	1st Grade	Integrated Science	64.00	53	79.50	15.50	-15.50	240.25
Classroom 43	Winter	2017	1st Grade	Social Studies	45.50	22	68.20	22.70	-22.70	515.29
Classroom 45	Winter	2017	1st Grade	Social Studies	61.90	21	87.50	25.60	-25.60	655.36
Classroom 65	Winter	2017	1st Grade	Language Arts	60.00	22	85.00	25.00	-25.00	625
Classroom 66	Winter	2017	1st Grade	Social Studies	61.00	19	79.00	18.00	-18.00	324
Classroom 67	Winter	2017	1st Grade	Language Arts	78.00	21	93.00	15.00	-15.00	225
Classroom 106	Spring/Sun	2017	1st Grade	Music	0.00	27	100.00	100.00	-100.00	10000
Classroom 118	Fall	2017	1st Grade	CSAT	48.00	19	78.00	30.00	-30.00	900
Classroom 120	Fall	2017	1st Grade	Integrated Science	84.00	23	96.00	12.00	-12.00	144
Classroom 122	Fall	2017	1st Grade	Integrated Science	58.00	20	88.00	30.00	-30.00	900
Classroom 124	Fall	2017	1st Grade	Language Arts	42.50	18	98.00	55.50	-55.50	3080.25
Classroom 134	Fall	2017	1st Grade	Integrated Science	27.60	21	92.60	65.00	-65.00	4225
Classroom 139	Fall	2017	1st Grade	Social Studies	19.00	25	49.00	30.00	-30.00	900
Classroom 145	Fall	2017	1st Grade	Language Arts	37.50	24	72.08	34.58	-34.58	1195.7764
Classroom 149	Fall	2017	1st Grade	Social Studies	6.00	18	67.00	61.00	-61.00	3721
Classroom 156	Fall	2017	1st Grade	CSAT	50.00	22	65.00	15.00	-15.00	225
Classroom 159	Fall	2017	1st Grade	Social Studies	29.00	24	92.00	63.00	-63.00	3969
Classroom 180	Fall	2017	1st Grade	CSAT	67.00	25	92.00	25.00	-25.00	625
Classroom 184	Fall	2017	1st Grade	CSAT	35.00	21	75.00	40.00	-40.00	1600
Classroom 186	Fall	2017	1st Grade	Language Arts	20.00	27	97.00	77.00	-77.00	5929
Classroom 193	Fall	2017	1st Grade	Not indicated	44.00	17	65.00	21.00	-21.00	441
Classroom 200	Fall	2017	1st Grade	Integrated Science	76.00	26	93.00	17.00	-17.00	289
Classroom 202	Fall	2017	1st Grade	Language Arts	82.00	19	91.00	9.00	-9.00	81

<b>Number of Tests = N</b>	<b>Number of P-12 Students:</b>	<b>Average % Improvement:</b>	<b>"X-Y" or "ED":</b>	<b>"(X-Y)^2" or "ED^2"</b>
26	596	33.48	-870.38	42346.18
			L =Top Value (Σd/N)	-33.48
			M =Middle value	13209.20
			O =Bottom Value	650.00
			P =Square root of M/O	4.51
			<b>T = (L/P)</b>	<b>-7.43</b>
			α = 0.05	<b>Critical T = 1.645</b>

$$t = \frac{\frac{\sum d}{N}}{\sqrt{\frac{\sum d^2}{N} - \frac{(\sum d)^2}{N^2}}}$$

Classroom Sample	Semester	Year	Grade-Level Assessed	Content Area Assessed	Pre-SCORE (X)	Number of P-12 Students	Post-SCORE (Y)	"Y-X" Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
					$\sqrt{\frac{N}{N(N-1)}}$					<b>Significant</b>
									T/Square Root of N = Effect	<b>-1.456</b>

Classroom Sample	Semester	Year	Grade-Level Assessed	Content Area Assessed	Pre-SCORE (X)	Number of P-12 Students	Post-SCORE (Y)	"Y-X" Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
Classroom 4	Winter	2017	2nd Grade	Language Arts	64.00	22	77.00	13.00	-13.00	169
Classroom 5	Winter	2017	2nd Grade	Integrated Science	88.00	20	92.00	4.00	-4.00	16
Classroom 18	Winter	2017	2nd Grade	Language Arts	70.00	18	80.00	10.00	-10.00	100
Classroom 19	Winter	2017	2nd Grade	Integrated Science	84.30	24	93.20	8.90	-8.90	79.21
Classroom 20	Winter	2017	2nd Grade	Language Arts	75.00	22	94.00	19.00	-19.00	361
Classroom 59	Winter	2017	2nd Grade	Integrated Science	86.50	26	90.90	4.40	-4.40	19.36
Classroom 61	Winter	2017	2nd Grade	Integrated Science	44.00	23	63.00	19.00	-19.00	361
Classroom 62	Winter	2017	2nd Grade	Language Arts	12.00	18	45.00	33.00	-33.00	1089
Classroom 69	Winter	2017	2nd Grade	Integrated Science	45.00	17	63.00	18.00	-18.00	324
Classroom 116	Spring/Sun	2017	2nd Grade	Music	0.00	49	97.00	97.00	-97.00	9409
Classroom 119	Fall	2017	2nd Grade	Social Studies	82.00	27	94.00	12.00	-12.00	144
Classroom 123	Fall	2017	2nd Grade	CSAT	73.00	24	100.00	27.00	-27.00	729
Classroom 137	Fall	2017	2nd Grade	CSAT	67.40	15	98.70	31.30	-31.30	979.69
Classroom 144	Fall	2017	2nd Grade	CSAT	48.00	22	72.00	24.00	-24.00	576
Classroom 161	Fall	2017	2nd Grade	Integrated Science	70.00	23	75.00	5.00	-5.00	25
Classroom 167	Fall	2017	2nd Grade	CSAT	53.00	25	57.00	4.00	-4.00	16
Classroom 178	Fall	2017	2nd Grade	Integrated Science	27.00	27	72.00	45.00	-45.00	2025
Classroom 185	Fall	2017	2nd Grade	CSAT	52.00	23	71.00	19.00	-19.00	361
Classroom 194	Fall	2017	2nd Grade	Integrated Science	49.52	21	85.00	35.48	-35.48	1258.8304
Classroom 201	Fall	2017	2nd Grade	Integrated Science	66.00	18	84.00	18.00	-18.00	324

<b>Number of Tests = N</b> 20	<b>Number of P-12 Students:</b> 464	<b>Average % Improvement:</b> 22.35	<b>"X-Y" or "ED":</b> -447.08	<b>"(X-Y)^2" or "ED^2"</b> 18366.09
			L =Top Value (Σd/N)	-22.35
			M =Middle value	8372.06
			O =Bottom Value	380.00
			P =Square root of M/O	4.69
			<b>T = (L/P)</b>	<b>-4.76</b>
			α = 0.05	<b>Critical T = 1.645</b>
				<b>Significant</b>
			T/Square Root of N = Effect	<b>-1.065</b>

$$t = \frac{\frac{\sum d}{N}}{\sqrt{\frac{\sum d^2 - \frac{(\sum d)^2}{N}}{N(N-1)}}$$

Classroom Sample	Semester	Year	Grade-Level Assessed	Content Area Assessed	Pre-SCORE (X)	Number of P-12 Students	Post-SCORE (Y)	"Y-X" Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
Classroom 12	Winter	2017	3rd Grade	Social Studies	36.96	22	40.09	3.13	-3.13	9.7969
Classroom 13	Winter	2017	3rd Grade	Social Studies	57.30	25	86.00	28.70	-28.70	823.69
Classroom 15	Winter	2017	3rd Grade	Social Studies	24.00	17	56.00	32.00	-32.00	1024
Classroom 16	Winter	2017	3rd Grade	Language Arts	75.40	23	82.00	6.60	-6.60	43.56
Classroom 21	Winter	2017	3rd Grade	Social Studies	72.00	19	82.00	10.00	-10.00	100
Classroom 30	Winter	2017	3rd Grade	Social Studies	36.23	24	82.45	46.22	-46.22	2136.2884
Classroom 35	Winter	2017	3rd Grade	Language Arts	39.36	25	85.88	46.52	-46.52	2164.1104
Classroom 48	Winter	2017	3rd Grade	Integrated Science	24.00	21	80.00	56.00	-56.00	3136
Classroom 49	Winter	2017	3rd Grade	Social Studies	9.00	27	63.80	54.80	-54.80	3003.04
Classroom 55	Winter	2017	3rd Grade	Language Arts	49.80	26	89.90	40.10	-40.10	1608.01
Classroom 58	Winter	2017	3rd Grade	Social Studies	82.00	24	86.00	4.00	-4.00	16
Classroom 64	Winter	2017	3rd Grade	Language Arts	50.40	22	88.00	37.60	-37.60	1413.76
Classroom 68	Winter	2017	3rd Grade	Language Arts	25.00	26	95.00	70.00	-70.00	4900
Classroom 121	Fall	2017	3rd Grade	CSAT	63.00	25	86.50	23.50	-23.50	552.25
Classroom 125	Fall	2017	3rd Grade	CSAT	54.00	22	91.00	37.00	-37.00	1369
Classroom 140	Fall	2017	3rd Grade	CSAT	14.00	28	83.00	69.00	-69.00	4761
Classroom 141	Fall	2017	3rd Grade	Language Arts	55.70	17	82.80	27.10	-27.10	734.41
Classroom 146	Fall	2017	3rd Grade	CSAT	61.00	24	93.00	32.00	-32.00	1024
Classroom 150	Fall	2017	3rd Grade	CSAT	37.00	26	83.00	46.00	-46.00	2116
Classroom 155	Fall	2017	3rd Grade	CSAT	0.00	24	91.00	91.00	-91.00	8281
Classroom 171	Fall	2017	3rd Grade	CSAT	28.00	26	82.00	54.00	-54.00	2916
Classroom 175	Fall	2017	3rd Grade	CSAT	45.00	25	95.00	50.00	-50.00	2500

<b>Number of Tests = N</b> 22	<b>Number of P-12 Students:</b> 518	<b>Average % Improvement:</b> 39.33	<b>"X-Y" or "ED":</b> -865.27	<b>"(X-Y)^2" or "ED^2"</b> 44631.92
			L =Top Value (Σd/N)	-39.33
			M =Middle value	10600.45
			O =Bottom Value	462.00
			P =Square root of M/O	4.79
			<b>T = (L/P)</b>	<b>-8.21</b>
			α = 0.05	<b>Critical T = 1.645</b>
				<b>Significant</b>
			<b>T/Square Root of N = Effect</b>	<b>-1.751</b>

$$t = \frac{\frac{\sum d}{N}}{\sqrt{\frac{\sum d^2 - \frac{(\sum d)^2}{N}}{N(N-1)}}$$

Classroom Sample	Semester	Year	Grade-Level Assessed	Content Area Assessed	Pre-SCORE (X)	Number of P-12 Students	Post-SCORE (Y)	"Y-X" Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
Classroom 22	Winter	2017	4th Grade	Language Arts	33.00	27	85.00	52.00	-52.00	2704
Classroom 27	Winter	2017	4th Grade	Language Arts	28.00	24	77.00	49.00	-49.00	2401
Classroom 28	Winter	2017	4th Grade	Language Arts	50.00	18	71.00	21.00	-21.00	441
Classroom 34	Winter	2017	4th Grade	Social Studies	66.60	18	92.50	25.90	-25.90	670.81
Classroom 37	Winter	2017	4th Grade	Language Arts	48.00	19	89.00	41.00	-41.00	1681
Classroom 42	Winter	2017	4th Grade	Social Studies	39.00	22	84.00	45.00	-45.00	2025
Classroom 57	Winter	2017	4th Grade	Social Studies	44.00	16	55.00	11.00	-11.00	121
Classroom 130	Fall	2017	4th Grade	CSAT	40.00	24	65.00	25.00	-25.00	625
Classroom 152	Fall	2017	4th Grade	CSAT	38.00	20	83.00	45.00	-45.00	2025
Classroom 154	Fall	2017	4th Grade	Integrated Science	59.00	26	80.00	21.00	-21.00	441
Classroom 158	Fall	2017	4th Grade	Integrated Science	58.00	19	82.00	24.00	-24.00	576
Classroom 160	Fall	2017	4th Grade	CSAT	78.00	23	80.00	2.00	-2.00	4
Classroom 166	Fall	2017	4th Grade	CSAT	60.00	28	75.00	15.00	-15.00	225
Classroom 169	Fall	2017	4th Grade	Language Arts	65.00	44	75.00	10.00	-10.00	100
Classroom 181	Fall	2017	4th Grade	Social Studies	21.00	23	93.00	72.00	-72.00	5184
Classroom 182	Fall	2017	4th Grade	Integrated Science	49.00	28	71.00	22.00	-22.00	484
Classroom 183	Fall	2017	4th Grade	Integrated Science	32.00	29	74.00	42.00	-42.00	1764
Classroom 203	Fall	2017	4th Grade	Language Arts	43.00	28	86.00	43.00	-43.00	1849

<b>Number of Tests = N</b>	<b>Number of P-12 Students:</b>	<b>Average % Improvement:</b>	<b>"X-Y" or "ED":</b>	<b>"(X-Y)^2" or "ED^2"</b>
<b>18</b>	<b>436</b>	<b>31.44</b>	<b>-565.90</b>	<b>23320.81</b>
			L =Top Value (Σd/N)	-31.44
			M =Middle value	5529.54
			O =Bottom Value	306.00
			P =Square root of M/O	4.25
			<b>T = (L/P)</b>	<b>-7.40</b>
			α = 0.05	<b>Critical T = 1.645</b>
			<b>T/Square Root of N = Effect</b>	<b>-1.743</b>
			<b>Significant</b>	

$$t = \frac{\frac{\sum d}{N}}{\sqrt{\frac{\sum d^2 - \frac{(\sum d)^2}{N}}{N(N-1)}}$$

Classroom Sample	Semester	Year	Grade-Level Assessed	Content Area Assessed	Pre-SCORE (X)	Number of P-12 Students	Post-SCORE (Y)	"Y-X" Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
Classroom 1	Winter	2017	5th Grade	Language Arts	9.00	25	88.00	79.00	-79.00	6241
Classroom 6	Winter	2017	5th Grade	Mathematics	38.00	22	82.72	44.72	-44.72	1999.8784
Classroom 8	Winter	2017	5th Grade	Mathematics	30.00	29	84.00	54.00	-54.00	2916
Classroom 9	Winter	2017	5th Grade	Language Arts	36.00	21	68.00	32.00	-32.00	1024
Classroom 11	Winter	2017	5th Grade	Social Studies	68.00	24	80.00	12.00	-12.00	144
Classroom 14	Winter	2017	5th Grade	Mathematics	29.67	27	68.96	39.29	-39.29	1543.7041
Classroom 25	Winter	2017	5th Grade	Integrated Science	4.17	24	91.60	87.43	-87.43	7644.0049
Classroom 33	Winter	2017	5th Grade	Language Arts	11.00	23	42.00	31.00	-31.00	961
Classroom 39	Winter	2017	5th Grade	Social Studies	62.00	17	68.80	6.80	-6.80	46.24
Classroom 44	Winter	2017	5th Grade	Mathematics	51.10	19	62.40	11.30	-11.30	127.69
Classroom 47	Winter	2017	5th Grade	Integrated Science	36.00	24	78.00	42.00	-42.00	1764
Classroom 51	Winter	2017	5th Grade	Social Studies	21.00	25	67.00	46.00	-46.00	2116
Classroom 52	Winter	2017	5th Grade	Mathematics	78.00	27	89.00	11.00	-11.00	121
Classroom 53	Winter	2017	5th Grade	Social Studies	35.89	21	58.79	22.90	-22.90	524.41
Classroom 54	Winter	2017	5th Grade	Mathematics	41.00	13	68.00	27.00	-27.00	729
Classroom 60	Winter	2017	5th Grade	Language Arts	45.00	31	91.00	46.00	-46.00	2116
Classroom 63	Winter	2017	5th Grade	Mathematics	53.00	27	83.00	30.00	-30.00	900
Classroom 128	Fall	2017	5th Grade	Mathematics	77.16	27	88.60	11.44	-11.44	130.8736
Classroom 131	Fall	2017	5th Grade	Mathematics	25.00	26	88.00	63.00	-63.00	3969
Classroom 132	Fall	2017	5th Grade	Mathematics	26.00	23	93.00	67.00	-67.00	4489
Classroom 133	Fall	2017	5th Grade	Social Studies	54.00	21	94.00	40.00	-40.00	1600
Classroom 135	Fall	2017	5th Grade	Mathematics	35.00	31	76.00	41.00	-41.00	1681
Classroom 136	Fall	2017	5th Grade	Mathematics	23.00	28	86.00	63.00	-63.00	3969
Classroom 142	Fall	2017	5th Grade	Language Arts	23.00	24	76.00	53.00	-53.00	2809
Classroom 143	Fall	2017	5th Grade	Social Studies	2.00	22	82.00	80.00	-80.00	6400
Classroom 151	Fall	2017	5th Grade	CSAT	46.00	24	92.00	46.00	-46.00	2116
Classroom 157	Fall	2017	5th Grade	CSAT	28.00	27	52.00	24.00	-24.00	576
Classroom 164	Fall	2017	5th Grade	Mathematics	50.00	11	79.00	29.00	-29.00	841
Classroom 165	Fall	2017	5th Grade	Not indicated	70.00	28	83.00	13.00	-13.00	169
Classroom 170	Fall	2017	5th Grade	Mathematics	38.89	22	57.07	18.18	-18.18	330.5124
Classroom 173	Fall	2017	5th Grade	Integrated Science	47.00	30	78.00	31.00	-31.00	961
Classroom 174	Fall	2017	5th Grade	Mathematics	57.00	26	83.00	26.00	-26.00	676
Classroom 177	Fall	2017	5th Grade	Mathematics	59.00	24	90.00	31.00	-31.00	961
Classroom 179	Fall	2017	5th Grade	Mathematics	67.50	27	68.50	1.00	-1.00	1
Classroom 187	Fall	2017	5th Grade	Mathematics	36.00	30	89.00	53.00	-53.00	2809
Classroom 188	Fall	2017	5th Grade	Mathematics	48.00	30	77.00	29.00	-29.00	841
Classroom 189	Fall	2017	5th Grade	Integrated Science	40.00	29	90.00	50.00	-50.00	2500
Classroom 190	Fall	2017	5th Grade	Social Studies	47.00	36	94.00	47.00	-47.00	2209
Classroom 192	Fall	2017	5th Grade	Social Studies	35.00	27	50.00	15.00	-15.00	225
Classroom 196	Fall	2017	5th Grade	CSAT	50.20	27	57.20	7.00	-7.00	49
Classroom 197	Fall	2017	5th Grade	Mathematics	76.00	28	82.00	6.00	-6.00	36

Classroom Sample	Semester	Year	Grade-Level Assessed	Content Area Assessed	Pre-SCORE (X)	Number of P-12 Students	Post-SCORE (Y)	"Y-X" Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
Classroom 199	Fall	2017	5th Grade	CSAT	3.00	25	77.00	74.00	-74.00	5476
Classroom 206	Fall	2017	5th Grade	Mathematics	36.00	28	74.00	38.00	-38.00	1444

<b>Number of Tests = N</b> 43	<b>Number of P-12 Students:</b> 1080	<b>Average % Improvement:</b> 36.72	<b>"X-Y" or "ED":</b> -1579.06	<b>"(X-Y)^2" or "ED^2"</b> 78186.31
			L =Top Value (Σd/N)	-36.72
			M =Middle value	20199.56
			O =Bottom Value	1806.00
			P =Square root of M/O	3.34
			<b>T = (L/P)</b>	<b>-10.98</b>
			α = 0.05	<b>Critical T = 1.645</b>
				<b>Significant</b>
			<b>T/Square Root of N = Effect</b>	<b>-1.674</b>

$$t = \frac{\frac{\sum d}{N}}{\sqrt{\frac{\sum d^2 - \frac{(\sum d)^2}{N}}{N(N-1)}}$$

Classroom Sample	Semester	Year	Grade-Level Assessed	Content Area Assessed	Pre-SCORE (X)	Number of P-12 Students	Post-SCORE (Y)	"Y-X" Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
Classroom 2	Winter	2017	6th Grade	Integrated Science	45.00	19	92.00	47.00	-47.00	2209
Classroom 7	Winter	2017	6th Grade	Integrated Science	54.00	28	71.00	17.00	-17.00	289
Classroom 23	Winter	2017	6th Grade	Mathematics	51.50	41	74.20	22.70	-22.70	515.29
Classroom 50	Winter	2017	6th Grade	Integrated Science	84.00	23	94.00	10.00	-10.00	100
Classroom 70	Spring/Sun	2017	7th Grade	English	38.00	80	84.00	46.00	-46.00	2116
Classroom 72	Spring/Sun	2017	8th Grade	Mathematics	33.30	17	78.00	44.70	-44.70	1998.09
Classroom 75	Spring/Sun	2017	8th Grade	Social Studies	35.00	64	82.00	47.00	-47.00	2209
Classroom 79	Spring/Sun	2017	8th Grade	Music	62.50	38	83.00	20.50	-20.50	420.25
Classroom 80	Spring/Sun	2017	6th Grade	Physical Education	74.00	50	100.00	26.00	-26.00	676
Classroom 84	Spring/Sun	2017	7th Grade	Social Studies	36.00	138	52.00	16.00	-16.00	256
Classroom 93	Spring/Sun	2017	6th Grade	Not indicated	34.00	165	86.00	52.00	-52.00	2704
Classroom 95	Spring/Sun	2017	7th Grade	Physical Education	45.00	134	89.00	44.00	-44.00	1936
Classroom 96	Spring/Sun	2017	7th Grade	Social Studies	76.00	82	81.00	5.00	-5.00	25
Classroom 99	Spring/Sun	2017	8th Grade	Music	53.00	48	80.00	27.00	-27.00	729
Classroom 100	Spring/Sun	2017	7th Grade	Music	46.00	60	88.00	42.00	-42.00	1764
Classroom 102	Spring/Sun	2017	6th Grade	Music	75.00	35	89.00	14.00	-14.00	196
Classroom 107	Spring/Sun	2017	6th Grade	Music	0.00	70	100.00	100.00	-100.00	10000
Classroom 109	Spring/Sun	2017	6th Grade	Social Studies	38.50	28	72.00	33.50	-33.50	1122.25
Classroom 114	Spring/Sun	2017	6th Grade	Social Studies	47.00	63	73.00	26.00	-26.00	676
Classroom 115	Spring/Sun	2017	6th Grade	English	77.50	24	82.70	5.20	-5.20	27.04

<b>Number of Tests = N</b>	<b>Number of P-12 Students:</b>	<b>Average % Improvement:</b>	<b>"X-Y" or "ED":</b>	<b>"(X-Y)^2" or "ED^2"</b>
20	1207	32.28	-645.60	29967.92
			L =Top Value (Σd/N)	-32.28
			M =Middle value	9127.95
			O =Bottom Value	380.00
			P =Square root of M/O	4.90
			<b>T = (L/P)</b>	<b>-6.59</b>
			α = 0.05	<b>Critical T = 1.645</b>
				<b>Significant</b>
			T/Square Root of N = Effect	<b>-1.473</b>

$$t = \frac{\frac{\sum d}{N}}{\sqrt{\frac{\sum d^2 - \frac{(\sum d)^2}{N}}{N(N-1)}}$$

Classroom Sample	Semester	Year	Grade-Level Assessed	Content Area Assessed	Pre-SCORE (X)	Number of P-12 Students	Post-SCORE (Y)	"Y-X" Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
Classroom 71	Spring/Sun	2017	11th Grade	Mathematics	52.50	28	82.00	29.50	-29.50	870.25
Classroom 73	Spring/Sun	2017	9th Grade	Art	36.00	45	80.00	44.00	-44.00	1936
Classroom 74	Spring/Sun	2017	10th Grade	Social Studies	37.00	78	90.00	53.00	-53.00	2809
Classroom 77	Spring/Sun	2017	10th Grade	German	25.00	26	65.00	40.00	-40.00	1600
Classroom 78	Spring/Sun	2017	10th Grade	Social Studies	25.00	70	92.00	67.00	-67.00	4489
Classroom 81	Spring/Sun	2017	11th Grade	Mathematics	55.00	61	72.00	17.00	-17.00	289
Classroom 82	Spring/Sun	2017	9th Grade	Not indicated	58.00	12	75.00	17.00	-17.00	289
Classroom 83	Spring/Sun	2017	11th Grade	Social Studies	73.00	119	82.00	9.00	-9.00	81
Classroom 85	Spring/Sun	2017	9th Grade	Social Studies	58.00	85	73.00	15.00	-15.00	225
Classroom 86	Spring/Sun	2017	11th Grade	Social Studies	67.00	67	85.00	18.00	-18.00	324
Classroom 87	Spring/Sun	2017	10th Grade	Social Studies	33.00	59	66.00	33.00	-33.00	1089
Classroom 88	Spring/Sun	2017	9th Grade	Biology	40.00	94	83.00	43.00	-43.00	1849
Classroom 89	Spring/Sun	2017	9th Grade	Biology	39.40	116	81.40	42.00	-42.00	1764
Classroom 90	Spring/Sun	2017	9th Grade	English	20.95	115	77.40	56.45	-56.45	3186.6025
Classroom 91	Spring/Sun	2017	9th Grade	Earth Science	16.00	87	86.30	70.30	-70.30	4942.09
Classroom 92	Spring/Sun	2017	10th Grade	Mathematics	3.90	32	84.00	80.10	-80.10	6416.01
Classroom 94	Spring/Sun	2017	9th Grade	Biology	33.30	135	83.00	49.70	-49.70	2470.09
Classroom 97	Spring/Sun	2017	9th Grade	Music	70.00	26	76.00	6.00	-6.00	36
Classroom 98	Spring/Sun	2017	10th Grade	Social Studies	59.00	57	83.00	24.00	-24.00	576
Classroom 101	Spring/Sun	2017	10th Grade	Mathematics	55.00	113	82.00	27.00	-27.00	729
Classroom 103	Spring/Sun	2017	10th Grade	Earth Science	67.00	68	86.00	19.00	-19.00	361
Classroom 104	Spring/Sun	2017	10th Grade	Social Studies	46.00	27	84.20	38.20	-38.20	1459.24
Classroom 105	Spring/Sun	2017	10th Grade	English	50.00	56	85.00	35.00	-35.00	1225
Classroom 108	Spring/Sun	2017	9th Grade	French	0.00	32	93.75	93.75	-93.75	8789.0625
Classroom 110	Spring/Sun	2017	11th Grade	Not indicated	54.00	20	77.00	23.00	-23.00	529
Classroom 111	Spring/Sun	2017	12th Grade	English	48.00	26	72.00	24.00	-24.00	576
Classroom 112	Spring/Sun	2017	12th Grade	English	65.00	54	89.00	24.00	-24.00	576
Classroom 117	Spring/Sun	2017	12th Grade	Music	7.00	45	80.00	73.00	-73.00	5329

<b>Number of Tests = N</b>	<b>Number of P-12 Students:</b>	<b>Average % Improvement:</b>	<b>"X-Y" or "ED":</b>	<b>"(X-Y)^2" or "ED^2"</b>
<b>28</b>	<b>1753</b>	<b>38.25</b>	<b>-1071.00</b>	<b>54814.35</b>
			L =Top Value (Σd/N)	-38.25
			M =Middle value	13848.60
			O =Bottom Value	756.00
			P =Square root of M/O	4.28
			<b>T = (L/P)</b>	<b>-8.94</b>

$$t = \frac{\sum d}{N}$$

Classroom Sample	Semester	Year	Grade-Level Assessed	Content Area Assessed	Pre-SCORE (X)	Number of P-12 Students	Post-SCORE (Y)	"Y-X" Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"	
					$\sqrt{\frac{\sum d^2 - \frac{(\sum d)^2}{N}}{N(N-1)}}$			$\alpha = 0.05$	Critical T = 1.645		
										Significant	
										T/Square Root of N = Effect	-1.689

Classroom Sample	Semester	Year	Grade-Level Assessed	Content Area Assessed	Pre-SCORE (X)	Number of P-12 Students	Post-SCORE (Y)	"Y-X" Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
Classroom 73	Spring/Sun	2017	9th Grade	Art	36.00	45	80.00	44.00	-44.00	1936
Classroom 76	Spring/Sun	2017	Kindergarten	Music	25.00	18	75.00	50.00	-50.00	2500
Classroom 79	Spring/Sun	2017	8th Grade	Music	62.50	38	83.00	20.50	-20.50	420.25
Classroom 97	Spring/Sun	2017	9th Grade	Music	70.00	26	76.00	6.00	-6.00	36
Classroom 99	Spring/Sun	2017	8th Grade	Music	53.00	48	80.00	27.00	-27.00	729
Classroom 100	Spring/Sun	2017	7th Grade	Music	46.00	60	88.00	42.00	-42.00	1764
Classroom 102	Spring/Sun	2017	6th Grade	Music	75.00	35	89.00	14.00	-14.00	196
Classroom 106	Spring/Sun	2017	1st Grade	Music	0.00	27	100.00	100.00	-100.00	10000
Classroom 107	Spring/Sun	2017	6th Grade	Music	0.00	70	100.00	100.00	-100.00	10000
Classroom 116	Spring/Sun	2017	2nd Grade	Music	0.00	49	97.00	97.00	-97.00	9409
Classroom 117	Spring/Sun	2017	12th Grade	Music	7.00	45	80.00	73.00	-73.00	5329

<b>Number of Tests = N</b>	<b>Number of P-12 Students:</b>	<b>Average % Improvement:</b>	<b>"X-Y" or "ED":</b>	<b>"(X-Y)^2" or "ED^2"</b>
11	461	52.14	-573.50	42319.25
			L =Top Value (Σd/N)	-52.14
			M =Middle value	12419.05
			O =Bottom Value	110.00
			P =Square root of M/O	10.63
			<b>T = (L/P)</b>	<b>-4.91</b>
			α = 0.05	<b>Critical T = 1.645</b>
				<b>Significant</b>
			T/Square Root of N = Effect	<b>-1.479</b>

$$t = \frac{\frac{\sum d}{N}}{\sqrt{\frac{\sum d^2 - \frac{(\sum d)^2}{N}}{N(N-1)}}$$

Classroom Sample	Semester	Year	Grade-Level Assessed	Content Area Assessed	Pre-SCORE (X)	Number of P-12 Students	Post-SCORE (Y)	"Y-X" Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
Classroom 88	Spring/Sun	2017	9th Grade	Biology	40.00	94	83.00	43.00	-43.00	1849
Classroom 89	Spring/Sun	2017	9th Grade	Biology	39.40	116	81.40	42.00	-42.00	1764
Classroom 94	Spring/Sun	2017	9th Grade	Biology	33.30	135	83.00	49.70	-49.70	2470.09

<b>Number of Tests = N</b>	<b>Number of P-12 Students:</b>	<b>Average % Improvement:</b>	<b>"X-Y" or "ED":</b>	<b>"(X-Y)^2" or "ED^2"</b>
<b>3</b>	<b>345</b>	<b>44.90</b>	<b>-134.70</b>	<b>6083.09</b>
			L =Top Value ( $\sum d/N$ )	-44.90
			M =Middle value	35.06
			O =Bottom Value	6.00
			P =Square root of M/O	2.42
			<b>T = (L/P)</b>	<b>-18.57</b>
			$\alpha = 0.05$	<b>Critical T = 1.645</b>
				<b>Significant</b>
			<b>T/Square Root of N = Effect</b>	<b>-10.724</b>

$$t = \frac{\frac{\sum d}{N}}{\sqrt{\frac{\sum d^2 - \frac{(\sum d)^2}{N}}{N(N-1)}}$$

Classroom Sample	Semester	Year	Grade-Level Assessed	Content Area Assessed	Pre-SCORE (X)	Number of P-12 Students	Post-SCORE (Y)	"Y-X" Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
Classroom 118	Fall	2017	1st Grade	CSAT	48.00	19	78.00	30.00	-30.00	900
Classroom 121	Fall	2017	3rd Grade	CSAT	63.00	25	86.50	23.50	-23.50	552.25
Classroom 123	Fall	2017	2nd Grade	CSAT	73.00	24	100.00	27.00	-27.00	729
Classroom 125	Fall	2017	3rd Grade	CSAT	54.00	22	91.00	37.00	-37.00	1369
Classroom 126	Fall	2017	Kindergarten	CSAT	39.00	22	94.00	55.00	-55.00	3025
Classroom 127	Fall	2017	Kindergarten	CSAT	48.00	15	93.00	45.00	-45.00	2025
Classroom 129	Fall	2017	Kindergarten	CSAT	60.00	21	95.00	35.00	-35.00	1225
Classroom 130	Fall	2017	4th Grade	CSAT	40.00	24	65.00	25.00	-25.00	625
Classroom 137	Fall	2017	2nd Grade	CSAT	67.40	15	98.70	31.30	-31.30	979.69
Classroom 138	Fall	2017	Kindergarten	CSAT	74.00	27	90.67	16.67	-16.67	277.8889
Classroom 140	Fall	2017	3rd Grade	CSAT	14.00	28	83.00	69.00	-69.00	4761
Classroom 144	Fall	2017	2nd Grade	CSAT	48.00	22	72.00	24.00	-24.00	576
Classroom 146	Fall	2017	3rd Grade	CSAT	61.00	24	93.00	32.00	-32.00	1024
Classroom 150	Fall	2017	3rd Grade	CSAT	37.00	26	83.00	46.00	-46.00	2116
Classroom 151	Fall	2017	5th Grade	CSAT	46.00	24	92.00	46.00	-46.00	2116
Classroom 152	Fall	2017	4th Grade	CSAT	38.00	20	83.00	45.00	-45.00	2025
Classroom 153	Fall	2017	Kindergarten	CSAT	62.00	28	76.00	14.00	-14.00	196
Classroom 155	Fall	2017	3rd Grade	CSAT	0.00	24	91.00	91.00	-91.00	8281
Classroom 156	Fall	2017	1st Grade	CSAT	50.00	22	65.00	15.00	-15.00	225
Classroom 157	Fall	2017	5th Grade	CSAT	28.00	27	52.00	24.00	-24.00	576
Classroom 160	Fall	2017	4th Grade	CSAT	78.00	23	80.00	2.00	-2.00	4
Classroom 162	Fall	2017	Kindergarten	CSAT	46.00	18	63.00	17.00	-17.00	289
Classroom 166	Fall	2017	4th Grade	CSAT	60.00	28	75.00	15.00	-15.00	225
Classroom 167	Fall	2017	2nd Grade	CSAT	53.00	25	57.00	4.00	-4.00	16
Classroom 171	Fall	2017	3rd Grade	CSAT	28.00	26	82.00	54.00	-54.00	2916
Classroom 172	Fall	2017	Kindergarten	CSAT	67.00	21	89.00	22.00	-22.00	484
Classroom 175	Fall	2017	3rd Grade	CSAT	45.00	25	95.00	50.00	-50.00	2500
Classroom 176	Fall	2017	Kindergarten	CSAT	36.00	25	90.00	54.00	-54.00	2916
Classroom 180	Fall	2017	1st Grade	CSAT	67.00	25	92.00	25.00	-25.00	625
Classroom 184	Fall	2017	1st Grade	CSAT	35.00	21	75.00	40.00	-40.00	1600
Classroom 185	Fall	2017	2nd Grade	CSAT	52.00	23	71.00	19.00	-19.00	361
Classroom 195	Fall	2017	Kindergarten	CSAT	58.00	22	76.00	18.00	-18.00	324
Classroom 196	Fall	2017	5th Grade	CSAT	50.20	27	57.20	7.00	-7.00	49
Classroom 198	Fall	2017	Kindergarten	CSAT	35.00	23	66.00	31.00	-31.00	961
Classroom 199	Fall	2017	5th Grade	CSAT	3.00	25	77.00	74.00	-74.00	5476
Classroom 204	Fall	2017	Kindergarten	CSAT	6.00	16	100.00	94.00	-94.00	8836
Classroom 205	Fall	2017	Kindergarten	CSAT	82.00	15	94.00	12.00	-12.00	144

Classroom Sample	Semester	Year	Grade-Level Assessed	Content Area Assessed	Pre-SCORE (X)	Number of P-12 Students	Post-SCORE (Y)	"Y-X" Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
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Number of Tests = N			Number of P-12 Students:			Average % Improvement:		"X-Y" or "ED":	"(X-Y)^2" or "ED^2"
37			847			34.31		-1269.47	61329.83

$$t = \frac{\frac{\sum d}{N}}{\sqrt{\frac{\sum d^2 - \frac{(\sum d)^2}{N}}{N(N-1)}}$$

L =Top Value (Σd/N)	-34.31
M =Middle value	17774.31
O =Bottom Value	1332.00
P =Square root of M/O	3.65
<b>T = (L/P)</b>	<b>-9.39</b>
α = 0.05	<b>Critical T = 1.645</b>
	<b>Significant</b>
T/Square Root of N = Effect	<b>-1.544</b>

Classroom Sample	Semester	Year	Grade-Level Assessed	Content Area Assessed	Pre-SCORE (X)	Number of P-12 Students	Post-SCORE (Y)	"Y-X" Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
Classroom 91	Spring/Sun	2017	9th Grade	Earth Science	16.00	87	86.30	70.30	-70.30	4942.09
Classroom 103	Spring/Sun	2017	10th Grade	Earth Science	67.00	68	86.00	19.00	-19.00	361

Number of Tests = N	Number of P-12 Students:	Average % Improvement:	"X-Y" or "ED":	"(X-Y)^2" or "ED^2"
2	155	44.65	-89.30	5303.09
			L =Top Value ( $\sum d/N$ )	-44.65
			M =Middle value	1315.85
			O =Bottom Value	2.00
			P =Square root of M/O	25.65
			<b>T = (L/P)</b>	<b>-1.74</b>
			$\alpha = 0.05$	<b>Critical T = 1.645</b>
				<b>Significant</b>
			<b>T/Square Root of N = Effect</b>	<b>-1.231</b>

$$t = \frac{\frac{\sum d}{N}}{\sqrt{\frac{\sum d^2 - \frac{(\sum d)^2}{N}}{N(N-1)}}$$

Classroom Sample	Semester	Year	Grade-Level Assessed	Content Area Assessed	Pre-SCORE (X)	Number of P-12 Students	Post-SCORE (Y)	"Y-X" Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
Classroom 70	Spring/Sun	2017	7th Grade	English	38.00	80	84.00	46.00	-46.00	2116
Classroom 90	Spring/Sun	2017	9th Grade	English	20.95	115	77.40	56.45	-56.45	3186.6025
Classroom 105	Spring/Sun	2017	10th Grade	English	50.00	56	85.00	35.00	-35.00	1225
Classroom 111	Spring/Sun	2017	12th Grade	English	48.00	26	72.00	24.00	-24.00	576
Classroom 112	Spring/Sun	2017	12th Grade	English	65.00	54	89.00	24.00	-24.00	576
Classroom 115	Spring/Sun	2017	6th Grade	English	77.50	24	82.70	5.20	-5.20	27.04

<b>Number of Tests = N</b>	<b>Number of P-12 Students:</b>	<b>Average % Improvement:</b>	<b>"X-Y" or "ED":</b>	<b>"(X-Y)^2" or "ED^2"</b>
6	355	31.78	-190.65	7706.64
			L =Top Value (Σd/N)	-31.78
			M =Middle value	1648.74
			O =Bottom Value	30.00
			P =Square root of M/O	7.41
			<b>T = (L/P)</b>	<b>-4.29</b>
			α = 0.05	<b>Critical T = 1.645</b>
				<b>Significant</b>
			<b>T/Square Root of N = Effect</b>	<b>-1.750</b>

$$t = \frac{\frac{\sum d}{N}}{\sqrt{\frac{\sum d^2 - \frac{(\sum d)^2}{N}}{N(N-1)}}$$

Classroom Sample	Semester	Year	Grade-Level Assessed	Content Area Assessed	Pre-SCORE (X)	Number of P-12 Students	Post-SCORE (Y)	"Y-X" Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
Classroom 77	Spring/Sun	2017	10th Grade	German	25.00	26	65.00	40.00	-40.00	1600
Classroom 108	Spring/Sun	2017	9th Grade	French	0.00	32	93.75	93.75	-93.75	8789.0625

<b>Number of Tests = N</b>	<b>Number of P-12 Students:</b>	<b>Average % Improvement:</b>	<b>"X-Y" or "ED":</b>	<b>"(X-Y)^2" or "ED^2"</b>
<b>2</b>	<b>58</b>	<b>66.88</b>	<b>-133.75</b>	<b>10389.06</b>
			L =Top Value ( $\sum d/N$ )	-66.88
			M =Middle value	1444.53
			O =Bottom Value	2.00
			P =Square root of M/O	26.88
			<b>T = (L/P)</b>	<b>-2.49</b>
			$\alpha = 0.05$	<b>Critical T = 1.645</b>
				<b>Significant</b>
			<b>T/Square Root of N = Effect</b>	<b>-1.760</b>

$$t = \frac{\frac{\sum d}{N}}{\sqrt{\frac{\sum d^2 - \frac{(\sum d)^2}{N}}{N(N-1)}}$$

Classroom Sample	Semester	Year	Grade-Level Assessed	Content Area Assessed	Pre-SCORE (X)	Number of P-12 Students	Post-SCORE (Y)	"Y-X" Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
Classroom 2	Winter	2017	6th Grade	Integrated Science	45.00	19	92.00	47.00	-47.00	2209
Classroom 5	Winter	2017	2nd Grade	Integrated Science	88.00	20	92.00	4.00	-4.00	16
Classroom 7	Winter	2017	6th Grade	Integrated Science	54.00	28	71.00	17.00	-17.00	289
Classroom 19	Winter	2017	2nd Grade	Integrated Science	84.30	24	93.20	8.90	-8.90	79.21
Classroom 25	Winter	2017	5th Grade	Integrated Science	4.17	24	91.60	87.43	-87.43	7644.0049
Classroom 29	Winter	2017	1st Grade	Integrated Science	51.00	14	82.50	31.50	-31.50	992.25
Classroom 38	Winter	2017	Kindergarten	Integrated Science	54.00	20	97.00	43.00	-43.00	1849
Classroom 41	Winter	2017	1st Grade	Integrated Science	64.00	53	79.50	15.50	-15.50	240.25
Classroom 47	Winter	2017	5th Grade	Integrated Science	36.00	24	78.00	42.00	-42.00	1764
Classroom 48	Winter	2017	3rd Grade	Integrated Science	24.00	21	80.00	56.00	-56.00	3136
Classroom 50	Winter	2017	6th Grade	Integrated Science	84.00	23	94.00	10.00	-10.00	100
Classroom 59	Winter	2017	2nd Grade	Integrated Science	86.50	26	90.90	4.40	-4.40	19.36
Classroom 61	Winter	2017	2nd Grade	Integrated Science	44.00	23	63.00	19.00	-19.00	361
Classroom 69	Winter	2017	2nd Grade	Integrated Science	45.00	17	63.00	18.00	-18.00	324
Classroom 120	Fall	2017	1st Grade	Integrated Science	84.00	23	96.00	12.00	-12.00	144
Classroom 122	Fall	2017	1st Grade	Integrated Science	58.00	20	88.00	30.00	-30.00	900
Classroom 134	Fall	2017	1st Grade	Integrated Science	27.60	21	92.60	65.00	-65.00	4225
Classroom 154	Fall	2017	4th Grade	Integrated Science	59.00	26	80.00	21.00	-21.00	441
Classroom 158	Fall	2017	4th Grade	Integrated Science	58.00	19	82.00	24.00	-24.00	576
Classroom 161	Fall	2017	2nd Grade	Integrated Science	70.00	23	75.00	5.00	-5.00	25
Classroom 173	Fall	2017	5th Grade	Integrated Science	47.00	30	78.00	31.00	-31.00	961
Classroom 178	Fall	2017	2nd Grade	Integrated Science	27.00	27	72.00	45.00	-45.00	2025
Classroom 182	Fall	2017	4th Grade	Integrated Science	49.00	28	71.00	22.00	-22.00	484
Classroom 183	Fall	2017	4th Grade	Integrated Science	32.00	29	74.00	42.00	-42.00	1764
Classroom 189	Fall	2017	5th Grade	Integrated Science	40.00	29	90.00	50.00	-50.00	2500
Classroom 194	Fall	2017	2nd Grade	Integrated Science	49.52	21	85.00	35.48	-35.48	1258.8304
Classroom 200	Fall	2017	1st Grade	Integrated Science	76.00	26	93.00	17.00	-17.00	289
Classroom 201	Fall	2017	2nd Grade	Integrated Science	66.00	18	84.00	18.00	-18.00	324

<b>Number of Tests = N</b>	<b>Number of P-12 Students:</b>	<b>Average % Improvement:</b>	<b>"X-Y" or "ED":</b>	<b>"(X-Y)^2" or "ED^2"</b>
28	676	29.33	-821.21	34939.91
			L =Top Value (Σd/N)	-29.33
			M =Middle value	10854.70
			O =Bottom Value	756.00
			P =Square root of M/O	3.79
			<b>T = (L/P)</b>	<b>-7.74</b>

$$t = \frac{\sum d}{N}$$

Classroom Sample	Semester	Year	Grade-Level Assessed	Content Area Assessed	Pre-SCORE (X)	Number of P-12 Students	Post-SCORE (Y)	"Y-X" Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"	
					$\sqrt{\frac{\sum d^2 - \frac{(\sum d)^2}{N}}{N(N-1)}}$			$\alpha = 0.05$	Critical T = 1.645		
											Significant
											T/Square Root of N = Effect

Classroom Sample	Semester	Year	Grade-Level Assessed	Content Area Assessed	Pre-SCORE (X)	Number of P-12 Students	Post-SCORE (Y)	"Y-X" Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
Classroom 1	Winter	2017	5th Grade	Language Arts	9.00	25	88.00	79.00	-79.00	6241
Classroom 3	Winter	2017	Kindergarten	Language Arts	75.00	22	89.00	14.00	-14.00	196
Classroom 4	Winter	2017	2nd Grade	Language Arts	64.00	22	77.00	13.00	-13.00	169
Classroom 9	Winter	2017	5th Grade	Language Arts	36.00	21	68.00	32.00	-32.00	1024
Classroom 10	Winter	2017	Kindergarten	Language Arts	67.00	20	84.00	17.00	-17.00	289
Classroom 16	Winter	2017	3rd Grade	Language Arts	75.40	23	82.00	6.60	-6.60	43.56
Classroom 17	Winter	2017	Kindergarten	Language Arts	67.39	23	90.21	22.82	-22.82	520.7524
Classroom 18	Winter	2017	2nd Grade	Language Arts	70.00	18	80.00	10.00	-10.00	100
Classroom 20	Winter	2017	2nd Grade	Language Arts	75.00	22	94.00	19.00	-19.00	361
Classroom 22	Winter	2017	4th Grade	Language Arts	33.00	27	85.00	52.00	-52.00	2704
Classroom 26	Winter	2017	1st Grade	Language Arts	40.00	25	60.00	20.00	-20.00	400
Classroom 27	Winter	2017	4th Grade	Language Arts	28.00	24	77.00	49.00	-49.00	2401
Classroom 28	Winter	2017	4th Grade	Language Arts	50.00	18	71.00	21.00	-21.00	441
Classroom 31	Winter	2017	Kindergarten	Language Arts	54.20	24	86.10	31.90	-31.90	1017.61
Classroom 32	Winter	2017	Kindergarten	Language Arts	65.00	21	71.00	6.00	-6.00	36
Classroom 33	Winter	2017	5th Grade	Language Arts	11.00	23	42.00	31.00	-31.00	961
Classroom 35	Winter	2017	3rd Grade	Language Arts	39.36	25	85.88	46.52	-46.52	2164.1104
Classroom 36	Winter	2017	Kindergarten	Language Arts	66.00	23	89.00	23.00	-23.00	529
Classroom 37	Winter	2017	4th Grade	Language Arts	48.00	19	89.00	41.00	-41.00	1681
Classroom 55	Winter	2017	3rd Grade	Language Arts	49.80	26	89.90	40.10	-40.10	1608.01
Classroom 56	Winter	2017	Kindergarten	Language Arts	69.00	17	80.00	11.00	-11.00	121
Classroom 60	Winter	2017	5th Grade	Language Arts	45.00	31	91.00	46.00	-46.00	2116
Classroom 62	Winter	2017	2nd Grade	Language Arts	12.00	18	45.00	33.00	-33.00	1089
Classroom 64	Winter	2017	3rd Grade	Language Arts	50.40	22	88.00	37.60	-37.60	1413.76
Classroom 65	Winter	2017	1st Grade	Language Arts	60.00	22	85.00	25.00	-25.00	625
Classroom 67	Winter	2017	1st Grade	Language Arts	78.00	21	93.00	15.00	-15.00	225
Classroom 68	Winter	2017	3rd Grade	Language Arts	25.00	26	95.00	70.00	-70.00	4900
Classroom 124	Fall	2017	1st Grade	Language Arts	42.50	18	98.00	55.50	-55.50	3080.25
Classroom 141	Fall	2017	3rd Grade	Language Arts	55.70	17	82.80	27.10	-27.10	734.41
Classroom 142	Fall	2017	5th Grade	Language Arts	23.00	24	76.00	53.00	-53.00	2809
Classroom 145	Fall	2017	1st Grade	Language Arts	37.50	24	72.08	34.58	-34.58	1195.7764
Classroom 147	Fall	2017	Kindergarten	Language Arts	19.00	25	80.00	61.00	-61.00	3721
Classroom 148	Fall	2017	Kindergarten	Language Arts	45.00	20	70.00	25.00	-25.00	625
Classroom 163	Fall	2017	Kindergarten	Language Arts	67.00	23	71.00	4.00	-4.00	16
Classroom 168	Fall	2017	Kindergarten	Language Arts	94.00	24	98.00	4.00	-4.00	16
Classroom 169	Fall	2017	4th Grade	Language Arts	65.00	44	75.00	10.00	-10.00	100
Classroom 186	Fall	2017	1st Grade	Language Arts	20.00	27	97.00	77.00	-77.00	5929
Classroom 191	Fall	2017	Kindergarten	Language Arts	30.00	23	83.00	53.00	-53.00	2809
Classroom 202	Fall	2017	1st Grade	Language Arts	82.00	19	91.00	9.00	-9.00	81
Classroom 203	Fall	2017	4th Grade	Language Arts	43.00	28	86.00	43.00	-43.00	1849

Classroom Sample	Semester	Year	Grade-Level Assessed	Content Area Assessed	Pre-SCORE (X)	Number of P-12 Students	Post-SCORE (Y)	"Y-X" Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
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<b>Number of Tests = N</b>			<b>Number of P-12 Students:</b>		<b>Average % Improvement:</b>		<b>"X-Y" or "ED":</b>		<b>"(X-Y)^2" or "ED^2"</b>	
40			924		31.72		-1268.72		56342.24	
							L =Top Value ( $\sum d/N$ )		-31.72	
							M =Middle value		16100.98	
							O =Bottom Value		1560.00	
							P =Square root of M/O		3.21	
							<b>T = (L/P)</b>		<b>-9.87</b>	
							$\alpha = 0.05$		<b>Critical T = 1.645</b>	
									<b>Significant</b>	
							<b>T/Square Root of N = Effect</b>		<b>-1.561</b>	

$$t = \frac{\frac{\sum d}{N}}{\sqrt{\frac{\sum d^2 - \frac{(\sum d)^2}{N}}{N(N-1)}}$$

Classroom Sample	Semester	Year	Grade-Level Assessed	Content Area Assessed	Pre-SCORE (X)	Number of P-12 Students	Post-SCORE (Y)	"Y-X" Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
Classroom 6	Winter	2017	5th Grade	Mathematics	38.00	22	82.72	44.72	-44.72	1999.8784
Classroom 8	Winter	2017	5th Grade	Mathematics	30.00	29	84.00	54.00	-54.00	2916
Classroom 14	Winter	2017	5th Grade	Mathematics	29.67	27	68.96	39.29	-39.29	1543.7041
Classroom 23	Winter	2017	6th Grade	Mathematics	51.50	41	74.20	22.70	-22.70	515.29
Classroom 44	Winter	2017	5th Grade	Mathematics	51.10	19	62.40	11.30	-11.30	127.69
Classroom 46	Winter	2017	Kindergarten	Mathematics	16.00	15	94.00	78.00	-78.00	6084
Classroom 52	Winter	2017	5th Grade	Mathematics	78.00	27	89.00	11.00	-11.00	121
Classroom 54	Winter	2017	5th Grade	Mathematics	41.00	13	68.00	27.00	-27.00	729
Classroom 63	Winter	2017	5th Grade	Mathematics	53.00	27	83.00	30.00	-30.00	900
Classroom 71	Spring/Sun	2017	11th Grade	Mathematics	52.50	28	82.00	29.50	-29.50	870.25
Classroom 72	Spring/Sun	2017	8th Grade	Mathematics	33.30	17	78.00	44.70	-44.70	1998.09
Classroom 81	Spring/Sun	2017	11th Grade	Mathematics	55.00	61	72.00	17.00	-17.00	289
Classroom 92	Spring/Sun	2017	10th Grade	Mathematics	3.90	32	84.00	80.10	-80.10	6416.01
Classroom 101	Spring/Sun	2017	10th Grade	Mathematics	55.00	113	82.00	27.00	-27.00	729
Classroom 128	Fall	2017	5th Grade	Mathematics	77.16	27	88.60	11.44	-11.44	130.8736
Classroom 131	Fall	2017	5th Grade	Mathematics	25.00	26	88.00	63.00	-63.00	3969
Classroom 132	Fall	2017	5th Grade	Mathematics	26.00	23	93.00	67.00	-67.00	4489
Classroom 135	Fall	2017	5th Grade	Mathematics	35.00	31	76.00	41.00	-41.00	1681
Classroom 136	Fall	2017	5th Grade	Mathematics	23.00	28	86.00	63.00	-63.00	3969
Classroom 164	Fall	2017	5th Grade	Mathematics	50.00	11	79.00	29.00	-29.00	841
Classroom 170	Fall	2017	5th Grade	Mathematics	38.89	22	57.07	18.18	-18.18	330.5124
Classroom 174	Fall	2017	5th Grade	Mathematics	57.00	26	83.00	26.00	-26.00	676
Classroom 177	Fall	2017	5th Grade	Mathematics	59.00	24	90.00	31.00	-31.00	961
Classroom 179	Fall	2017	5th Grade	Mathematics	67.50	27	68.50	1.00	-1.00	1
Classroom 187	Fall	2017	5th Grade	Mathematics	36.00	30	89.00	53.00	-53.00	2809
Classroom 188	Fall	2017	5th Grade	Mathematics	48.00	30	77.00	29.00	-29.00	841
Classroom 197	Fall	2017	5th Grade	Mathematics	76.00	28	82.00	6.00	-6.00	36
Classroom 206	Fall	2017	5th Grade	Mathematics	36.00	28	74.00	38.00	-38.00	1444

<b>Number of Tests = N</b>	<b>Number of P-12 Students:</b>	<b>Average % Improvement:</b>	<b>"X-Y" or "ED":</b>	<b>"(X-Y)^2" or "ED^2"</b>
28	832	35.46	-992.93	47417.30
			L =Top Value (Σd/N)	-35.46
			M =Middle value	12206.23
			O =Bottom Value	756.00
			P =Square root of M/O	4.02
			<b>T = (L/P)</b>	<b>-8.83</b>

$$t = \frac{\sum d}{N}$$

Classroom Sample	Semester	Year	Grade-Level Assessed	Content Area Assessed	Pre-SCORE (X)	Number of P-12 Students	Post-SCORE (Y)	"Y-X" Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"	
					$\sqrt{\frac{\sum d^2 - \frac{(\sum d)^2}{N}}{N(N-1)}}$			$\alpha = 0.05$	Critical T = 1.645		
											Significant
											T/Square Root of N = Effect

Classroom Sample	Semester	Year	Grade-Level Assessed	Content Area Assessed	Pre-SCORE (X)	Number of P-12 Students	Post-SCORE (Y)	"Y-X" Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
Classroom 80	Spring/Sun	2017	6th Grade	Physical Education	74.00	50	100.00	26.00	-26.00	676
Classroom 95	Spring/Sun	2017	7th Grade	Physical Education	45.00	134	89.00	44.00	-44.00	1936
Classroom 113	Spring/Sun	2017	Kindergarten	Physical Education	0.00	25	100.00	100.00	-100.00	10000

<b>Number of Tests = N</b> 3	<b>Number of P-12 Students:</b> 209	<b>Average % Improvement:</b> 56.67	<b>"X-Y" or "ED":</b> -170.00	<b>"(X-Y)^2" or "ED^2"</b> 12612.00
			L =Top Value (Σd/N)	-56.67
			M =Middle value	2978.67
			O =Bottom Value	6.00
			P =Square root of M/O	22.28
			<b>T = (L/P)</b>	<b>-2.54</b>
			α = 0.05	<b>Critical T = 1.645</b>
				<b>Significant</b>
			<b>T/Square Root of N = Effect</b>	<b>-1.468</b>

$$t = \frac{\frac{\sum d}{N}}{\sqrt{\frac{\sum d^2 - \frac{(\sum d)^2}{N}}{N(N-1)}}$$

Classroom Sample	Semester	Year	Grade-Level Assessed	Content Area Assessed	Pre-SCORE (X)	Number of P-12 Students	Post-SCORE (Y)	"Y-X" Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
Classroom 11	Winter	2017	5th Grade	Social Studies	68.00	24	80.00	12.00	-12.00	144
Classroom 12	Winter	2017	3rd Grade	Social Studies	36.96	22	40.09	3.13	-3.13	9.7969
Classroom 13	Winter	2017	3rd Grade	Social Studies	57.30	25	86.00	28.70	-28.70	823.69
Classroom 15	Winter	2017	3rd Grade	Social Studies	24.00	17	56.00	32.00	-32.00	1024
Classroom 21	Winter	2017	3rd Grade	Social Studies	72.00	19	82.00	10.00	-10.00	100
Classroom 24	Winter	2017	1st Grade	Social Studies	60.00	23	72.00	12.00	-12.00	144
Classroom 30	Winter	2017	3rd Grade	Social Studies	36.23	24	82.45	46.22	-46.22	2136.2884
Classroom 34	Winter	2017	4th Grade	Social Studies	66.60	18	92.50	25.90	-25.90	670.81
Classroom 39	Winter	2017	5th Grade	Social Studies	62.00	17	68.80	6.80	-6.80	46.24
Classroom 40	Winter	2017	Kindergarten	Social Studies	62.00	17	81.00	19.00	-19.00	361
Classroom 42	Winter	2017	4th Grade	Social Studies	39.00	22	84.00	45.00	-45.00	2025
Classroom 43	Winter	2017	1st Grade	Social Studies	45.50	22	68.20	22.70	-22.70	515.29
Classroom 45	Winter	2017	1st Grade	Social Studies	61.90	21	87.50	25.60	-25.60	655.36
Classroom 49	Winter	2017	3rd Grade	Social Studies	9.00	27	63.80	54.80	-54.80	3003.04
Classroom 51	Winter	2017	5th Grade	Social Studies	21.00	25	67.00	46.00	-46.00	2116
Classroom 53	Winter	2017	5th Grade	Social Studies	35.89	21	58.79	22.90	-22.90	524.41
Classroom 57	Winter	2017	4th Grade	Social Studies	44.00	16	55.00	11.00	-11.00	121
Classroom 58	Winter	2017	3rd Grade	Social Studies	82.00	24	86.00	4.00	-4.00	16
Classroom 66	Winter	2017	1st Grade	Social Studies	61.00	19	79.00	18.00	-18.00	324
Classroom 74	Spring/Sun	2017	10th Grade	Social Studies	37.00	78	90.00	53.00	-53.00	2809
Classroom 75	Spring/Sun	2017	8th Grade	Social Studies	35.00	64	82.00	47.00	-47.00	2209
Classroom 78	Spring/Sun	2017	10th Grade	Social Studies	25.00	70	92.00	67.00	-67.00	4489
Classroom 83	Spring/Sun	2017	11th Grade	Social Studies	73.00	119	82.00	9.00	-9.00	81
Classroom 84	Spring/Sun	2017	7th Grade	Social Studies	36.00	138	52.00	16.00	-16.00	256
Classroom 85	Spring/Sun	2017	9th Grade	Social Studies	58.00	85	73.00	15.00	-15.00	225
Classroom 86	Spring/Sun	2017	11th Grade	Social Studies	67.00	67	85.00	18.00	-18.00	324
Classroom 87	Spring/Sun	2017	10th Grade	Social Studies	33.00	59	66.00	33.00	-33.00	1089
Classroom 96	Spring/Sun	2017	7th Grade	Social Studies	76.00	82	81.00	5.00	-5.00	25
Classroom 98	Spring/Sun	2017	10th Grade	Social Studies	59.00	57	83.00	24.00	-24.00	576
Classroom 104	Spring/Sun	2017	10th Grade	Social Studies	46.00	27	84.20	38.20	-38.20	1459.24
Classroom 109	Spring/Sun	2017	6th Grade	Social Studies	38.50	28	72.00	33.50	-33.50	1122.25
Classroom 114	Spring/Sun	2017	6th Grade	Social Studies	47.00	63	73.00	26.00	-26.00	676
Classroom 119	Fall	2017	2nd Grade	Social Studies	82.00	27	94.00	12.00	-12.00	144
Classroom 133	Fall	2017	5th Grade	Social Studies	54.00	21	94.00	40.00	-40.00	1600
Classroom 139	Fall	2017	1st Grade	Social Studies	19.00	25	49.00	30.00	-30.00	900
Classroom 143	Fall	2017	5th Grade	Social Studies	2.00	22	82.00	80.00	-80.00	6400
Classroom 149	Fall	2017	1st Grade	Social Studies	6.00	18	67.00	61.00	-61.00	3721
Classroom 159	Fall	2017	1st Grade	Social Studies	29.00	24	92.00	63.00	-63.00	3969
Classroom 181	Fall	2017	4th Grade	Social Studies	21.00	23	93.00	72.00	-72.00	5184
Classroom 190	Fall	2017	5th Grade	Social Studies	47.00	36	94.00	47.00	-47.00	2209
Classroom 192	Fall	2017	5th Grade	Social Studies	35.00	27	50.00	15.00	-15.00	225

Classroom Sample	Semester	Year	Grade-Level Assessed	Content Area Assessed	Pre-SCORE (X)	Number of P-12 Students	Post-SCORE (Y)	"Y-X" Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
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<b>Number of Tests = N</b> 41	<b>Number of P-12 Students:</b> 1563	<b>Average % Improvement:</b> 30.50	<b>"X-Y" or "ED":</b> -1250.45	<b>"(X-Y)^2" or "ED^2"</b> 54452.42
			L =Top Value (Σd/N)	-30.50
			M =Middle value	16315.22
			O =Bottom Value	1640.00
			P =Square root of M/O	3.15
			<b>T = (L/P)</b>	<b>-9.67</b>
			α = 0.05	<b>Critical T = 1.645</b>
				<b>Significant</b>
			T/Square Root of N = Effect	<b>-1.510</b>

$$t = \frac{\frac{\sum d}{N}}{\sqrt{\frac{\sum d^2 - \frac{(\sum d)^2}{N}}{N(N-1)}}$$