

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	Fall	2021	Kindergarten	Integrated Science	33	13	49	16.00	-16.00	256
Classroom 2	Fall	2021	3rd Grade	Integrated Science	79	29	93	14.00	-14.00	196
Classroom 3	Fall	2021	Kindergarten	Integrated Science	78	15	80	2.00	-2.00	4
Classroom 4	Fall	2021	10th Grade	Social Studies	17	56	81.7	64.70	-64.70	4186.09
Classroom 5	Fall	2021	9th Grade	Social Studies	35.1	33	80.9	45.80	-45.80	2097.64
Classroom 6	Fall	2020	4th Grade	Integrated Science	45	26	85	40.00	-40.00	1600
Classroom 7	Fall	2021	5th Grade	Social Studies	31	22	90	59.00	-59.00	3481
Classroom 8	Fall	2021	1st Grade	Social Studies	35	15	74	39.00	-39.00	1521
Classroom 9	Fall	2021	4th Grade	Social Studies	17	24	90	73.00	-73.00	5329
Classroom 10	Fall	2021	5th Grade	Social Studies	62	19	84	22.00	-22.00	484
Classroom 11	Fall	2021	2nd Grade	Integrated Science	52	21	84	32.00	-32.00	1024
Classroom 12	Fall	2021	1st Grade	Social Studies	43	22	93	50.00	-50.00	2500
Classroom 13	Fall	2021	Kindergarten	Integrated Science	43.9	15	65	21.10	-21.10	445.21
Classroom 14	Fall	2021	11th Grade	Social Studies	43	45	73	30.00	-30.00	900
Classroom 15	Fall	2021	12th Grade	English	34	84	45.4	11.40	-11.40	129.96
Classroom 16	Fall	2021	4th Grade	Social Studies	25	16	75	50.00	-50.00	2500
Classroom 17	Fall	2021	4th Grade	Integrated Science	60	23	89	29.00	-29.00	841
Classroom 18	Fall	2021	1st Grade	Mathematics	45	20	92	47.00	-47.00	2209
Classroom 19	Fall	2021	1st Grade	Social Studies	56	21	96	40.00	-40.00	1600
Classroom 20	Fall	2021	11th Grade	Social Studies	42.35	14	64	21.65	-21.65	468.7225
Classroom 21	Fall	2021	Kindergarten	Integrated Science	46.8	15	65.4	18.60	-18.60	345.96
Classroom 22	Fall	2021	2nd Grade	Social Studies	65	19	70	5.00	-5.00	25
Classroom 23	Fall	2021	3rd Grade	Social Studies	62	20	50.65	-11.35	11.35	128.8225
Classroom 24	Fall	2021	2nd Grade	Social Studies	70	22	50.65	-19.35	19.35	374.4225
Classroom 25	Fall	2021	9th Grade	Biology	36.77	102	60.81	24.04	-24.04	577.9216
Classroom 26	Fall	2021	11th Grade	Mathematics	45.9	39	73.4	27.50	-27.50	756.25
Classroom 27	Fall	2021	Kindergarten	Integrated Science	61.5	15	77.2	15.70	-15.70	246.49
Classroom 28	Fall	2021	4th Grade	Integrated Science	3.92	15	56.94	53.02	-53.02	2811.1204
Classroom 29	Fall	2021	5th Grade	Social Studies	53	13	66	13.00	-13.00	169
Classroom 30	Fall	2021	Kindergarten	Integrated Science	61	19	98.9	37.90	-37.90	1436.41
Classroom 31	Fall	2021	Kindergarten	Integrated Science	65	25	85.6	20.60	-20.60	424.36
Classroom 32	Fall	2021	3rd Grade	Social Studies	35	18	81	46.00	-46.00	2116
Classroom 33	Fall	2021	Kindergarten	Integrated Science	59.2	18	93.6	34.40	-34.40	1183.36
Classroom 34	Fall	2021	5th Grade	Social Studies	36	20	77	41.00	-41.00	1681
Classroom 35	Fall	2021	1st Grade	Social Studies	48.61	17	60.83	12.22	-12.22	149.3284

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Classroom 36	Fall	2021	1st Grade	Integrated Science	50	18	67	17.00	-17.00	289
Classroom 37	Fall	2021	4th Grade	Integrated Science	65	20	94	29.00	-29.00	841
Classroom 38	Fall	2021	2nd Grade	Social Studies	29.86	15	92.06	62.20	-62.20	3868.84
Classroom 39	Fall	2021	4th Grade	Integrated Science	28	18	63	35.00	-35.00	1225
Classroom 40	Fall	2021	Kindergarten	Integrated Science	46	13	80	34.00	-34.00	1156
Classroom 41	Fall	2021	4th Grade	Social Studies	17.65	22	50	32.35	-32.35	1046.5225
Classroom 42	Fall	2021	5th Grade	Integrated Science	30	17	86	56.00	-56.00	3136
Classroom 43	Fall	2021	10th Grade	English	60	26	75	15.00	-15.00	225
Classroom 44	Fall	2021	4th Grade	Integrated Science	62	22	90	28.00	-28.00	784
Classroom 45	Fall	2021	3rd Grade	Integrated Science	45	16	82	37.00	-37.00	1369
Classroom 46	Fall	2021	3rd Grade	Integrated Science	29	34	90	61.00	-61.00	3721
Classroom 47	Fall	2021	6th Grade	Language Arts	17	45	89.333	72.33	-72.33	5232.062889
Classroom 48	Fall	2021	5th Grade	Integrated Science	50	21	73	23.00	-23.00	529
Classroom 49	Fall	2021	4th Grade	Social Studies	64	22	90	26.00	-26.00	676
Classroom 50	Fall	2021	5th Grade	Integrated Science	54.68	22	83.31	28.63	-28.63	819.6769
Classroom 51	Fall	2021	2nd Grade	Integrated Science	32	18	61	29.00	-29.00	841
Classroom 52	Fall	2021	5th Grade	Social Studies	25	24	61	36.00	-36.00	1296
Classroom 53	Fall	2021	7th Grade	Spanish	22.88	72	84.61	61.73	-61.73	3810.5929
Classroom 54	Fall	2021	11th Grade	Social Studies	36	72	76	40.00	-40.00	1600
Classroom 55	Fall	2021	4th Grade	Integrated Science	29	16	82	53.00	-53.00	2809
Classroom 56	Fall	2021	2nd Grade	Integrated Science	78	19	89	11.00	-11.00	121
Classroom 57	Fall	2021	6th Grade	Integrated Science	17.6	22	72.5	54.90	-54.90	3014.01
Classroom 58	Fall	2021	1st Grade	Integrated Science	59.6	20	96.6	37.00	-37.00	1369
Classroom 59	Fall	2021	1st Grade	Integrated Science	66.64	17	100	33.36	-33.36	1112.8896
Classroom 60	Fall	2021	2nd Grade	Integrated Science	88	23	89	1.00	-1.00	1
Classroom 61	Fall	2021	2nd Grade	Integrated Science	45	18	86	41.00	-41.00	1681
Classroom 62	Fall	2021	11th Grade	English	59.67	89	61.92	2.25	-2.25	5.0625
Classroom 63	Fall	2021	5th Grade	Integrated Science	62	41	83.6	21.60	-21.60	466.56
Classroom 64	Fall	2021	6th Grade	Social Studies	46	21	78	32.00	-32.00	1024
Classroom 65	Fall	2021	1st Grade	Integrated Science	38	19	47.5	9.50	-9.50	90.25
Classroom 66	Fall	2021	5th Grade	Social Studies	12.5	20	84.67	72.17	-72.17	5208.5089
Classroom 67	Fall	2021	4th Grade	Social Studies	40	20	83	43.00	-43.00	1849
Classroom 68	Fall	2021	3rd Grade	Integrated Science	53	24	84	31.00	-31.00	961
Classroom 69	Fall	2021	5th Grade	Social Studies	40	22	85	45.00	-45.00	2025
Classroom 70	Fall	2021	1st Grade	Integrated Science	41	21	57	16.00	-16.00	256

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Classroom 71	Fall	2021	1st Grade	Integrated Science	35.714	19	71.428	35.71	-35.71	1275.489796
Classroom 72	Fall	2021	10th Grade	English	39.95	22	83.4	43.45	-43.45	1887.9025
Classroom 73	Fall	2021	Kindergarten	Integrated Science	71	21	90	19.00	-19.00	361
Classroom 74	Fall	2021	4th Grade	Social Studies	39	25	85	46.00	-46.00	2116
Classroom 75	Fall	2021	8th Grade	Language Arts	5	22	78	73.00	-73.00	5329
Classroom 76	Fall	2021	5th Grade	Social Studies	48	25	66	18.00	-18.00	324
Classroom 77	Fall	2021	2nd Grade	Social Studies	15	12	68	53.00	-53.00	2809
Classroom 78	Fall	2021	Kindergarten	Integrated Science	71	20	88.2	17.20	-17.20	295.84
Classroom 79	Fall	2021	4th Grade	Integrated Science	15	17	73	58.00	-58.00	3364
Classroom 80	Fall	2021	3rd Grade	Integrated Science	56	23	79	23.00	-23.00	529
Classroom 81	Fall	2021	Kindergarten	Integrated Science	95.4	23	84.4	-11.00	11.00	121
Classroom 82	Fall	2021	3rd Grade	Integrated Science	46	47	71	25.00	-25.00	625
Classroom 83	Fall	2021	1st Grade	Integrated Science	41.6	16	84.45	42.85	-42.85	1836.1225
Classroom 84	Fall	2021	5th Grade	Social Studies	37	23	87	50.00	-50.00	2500
Classroom 85	Fall	2021	5th Grade	Integrated Science	6.6	19	73	66.40	-66.40	4408.96
Classroom 86	Fall	2021	Kindergarten	Social Studies	22.8	20	66.66	43.86	-43.86	1923.6996
Classroom 87	Fall	2021	10th Grade	Social Studies	30	51	82	52.00	-52.00	2704
Classroom 88	Fall	2021	Kindergarten	Integrated Science	46	24	79	33.00	-33.00	1089
Classroom 89	Fall	2021	2nd Grade	Integrated Science	72	13	79	7.00	-7.00	49
Classroom 90	Fall	2021	4th Grade	Integrated Science	66	23	87	21.00	-21.00	441
Classroom 91	Fall	2021	1st Grade	Social Studies	60	23	88	28.00	-28.00	784
Classroom 92	Fall	2021	2nd Grade	Social Studies	89	20	72.5	-16.50	16.50	272.25
Classroom 93	Fall	2021	2nd Grade	Social Studies	42	22	91	49.00	-49.00	2401
Classroom 94	Fall	2021	2nd Grade	Integrated Science	77	20	72	-5.00	5.00	25
Classroom 95	Fall	2021	4th Grade	Integrated Science	74	21	80	6.00	-6.00	36
Classroom 96	Fall	2021	2nd Grade	Integrated Science	84	21	87	3.00	-3.00	9
Classroom 97	Fall	2021	4th Grade	Integrated Science	40	20	84	44.00	-44.00	1936
Classroom 98	Fall	2021	2nd Grade	Integrated Science	40	16	83	43.00	-43.00	1849
Classroom 99	Fall	2021	6th Grade	Music	23	27	91	68.00	-68.00	4624
Classroom 100	Fall	2021	5th Grade	Integrated Science	49	20	76	27.00	-27.00	729
Classroom 101	Fall	2021	3rd Grade	Integrated Science	44	19	61	17.00	-17.00	289
Classroom 102	Fall	2021	1st Grade	Integrated Science	57	20	55	-2.00	2.00	4
Classroom 103	Fall	2021	7th Grade	Social Studies	45.4	67	71.4	26.00	-26.00	676
Classroom 104	Fall	2021	7th Grade	Social Studies	63.333	26	100	36.67	-36.67	1344.468889
Classroom 105	Fall	2021	12th Grade	Economics	38.16	51	68.5	30.34	-30.34	920.5156

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Classroom 106	Fall	2021	10th Grade	Social Studies	36.5	51	75	38.50	-38.50	1482.25
Classroom 107	Fall	2021	7th Grade	Social Studies	36.222	101	79.778	43.56	-43.56	1897.125136
Classroom 108	Fall	2021	8th Grade	English	75	120	81.5	6.50	-6.50	42.25
Classroom 109	Fall	2021	10th Grade	Mathematics	45	21	76	31.00	-31.00	961
Classroom 110	Fall	2021	12th Grade	Mathematics	78	30	74.25	-3.75	3.75	14.0625
Classroom 111	Fall	2021	3rd Grade	Integrated Science	40	21	77	37.00	-37.00	1369
Classroom 112	Fall	2021	5th Grade	Integrated Science	62.9	15	86.6	23.70	-23.70	561.69
Classroom 113	Fall	2021	2nd Grade	Integrated Science	56.2	21	79	22.80	-22.80	519.84
Classroom 114	Fall	2021	4th Grade	Integrated Science	30	16	90	60.00	-60.00	3600
Classroom 115	Fall	2021	4th Grade	Integrated Science	46	23	76	30.00	-30.00	900
Classroom 116	Fall	2021	3rd Grade	Social Studies	30	19	50	20.00	-20.00	400
Classroom 117	Fall	2021	12th Grade	Art Education	60	55	88	28.00	-28.00	784
Classroom 118	Fall	2021	6th Grade	Social Studies	2.467	94	70.53	68.06	-68.06	4632.571969
Classroom 119	Fall	2021	9th Grade	Latin	21.18	41	81.07	59.89	-59.89	3586.8121
Classroom 120	Fall	2021	1st Grade	Integrated Science	66	23	93	27.00	-27.00	729
Classroom 121	Fall	2021	2nd Grade	Social Studies	61	16	81	20.00	-20.00	400
Classroom 122	Fall	2021	1st Grade	Integrated Science	64	16	77	13.00	-13.00	169
Classroom 123	Fall	2021	2nd Grade	Integrated Science	56	21	83	27.00	-27.00	729
Classroom 124	Fall	2021	4th Grade	Social Studies	35	23	69	34.00	-34.00	1156
Classroom 125	Fall	2021	12th Grade	Biology	31.5	38	97.5	66.00	-66.00	4356
Classroom 126	Fall	2021	7th Grade	English	12.5	18	95	82.50	-82.50	6806.25
Classroom 127	Winter	2021	3rd Grade	Social Studies	50	14	91	41.00	-41.00	1681
Classroom 128	Winter	2021	8th Grade	Art Education	21	19	60	39.00	-39.00	1521
Classroom 129	Winter	2021	Kindergarten	Social Studies	53	16	75	22.00	-22.00	484
Classroom 130	Winter	2021	7th Grade	Music	34.8	259	76.4	41.60	-41.60	1730.56
Classroom 131	Winter	2021	2nd Grade	Music	43	18	94	51.00	-51.00	2601
Classroom 132	Winter	2021	8th Grade	Physical Education	68	10	86	18.00	-18.00	324
Classroom 133	Winter	2021	5th Grade	Integrated Science	65	17	92	27.00	-27.00	729
Classroom 134	Winter	2021	5th Grade	Social Studies	11	15	85	74.00	-74.00	5476
Classroom 135	Winter	2021	7th Grade	Physical Education	72	15	77.5	5.50	-5.50	30.25
Classroom 136	Winter	2021	Kindergarten	Social Studies	30	18	70	40.00	-40.00	1600
Classroom 137	Winter	2021	9th Grade	English	56.667	24	93.333	36.67	-36.67	1344.395556
Classroom 138	Winter	2021	10th Grade	Spanish	76	35	89	13.00	-13.00	169
Classroom 139	Winter	2021	7th Grade	Music	33.333	20	100	66.67	-66.67	4444.488889
Classroom 140	Winter	2021	7th Grade	Music	40	4	57	17.00	-17.00	289

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Classroom 141	Winter	2021	10th Grade	Earth Science	29	11	51	22.00	-22.00	484
Classroom 142	Winter	2021	12th Grade	English	40	8	55	15.00	-15.00	225
Classroom 143	Winter	2021	11th Grade	Economics	51	35	70	19.00	-19.00	361
Classroom 144	Winter	2021	Kindergarten	Music	22	22	18	-4.00	4.00	16
Classroom 145	Winter	2021	3rd Grade	Social Studies	8.6	26	64.4	55.80	-55.80	3113.64
Classroom 146	Winter	2021	4th Grade	Social Studies	23	21	61	38.00	-38.00	1444
Classroom 147	Winter	2021	9th Grade	English	88.75	29	89	0.25	-0.25	0.0625
Classroom 148	Winter	2021	8th Grade	Social Studies	31.3	15	96	64.70	-64.70	4186.09
Classroom 149	Winter	2021	5th Grade	Social Studies	28	17	50	22.00	-22.00	484
Classroom 150	Winter	2021	11th Grade	Chemistry	30	43	85	55.00	-55.00	3025
Classroom 151	Winter	2021	5th Grade	Integrated Science	52	19	81	29.00	-29.00	841
Classroom 152	Winter	2021	6th Grade	Music	50	22	90	40.00	-40.00	1600
Classroom 153	Winter	2021	2nd Grade	Integrated Science	23	18	90	67.00	-67.00	4489
Classroom 154	Winter	2021	10th Grade	Mathematics	38.8	12	86.5	47.70	-47.70	2275.29
Classroom 155	Winter	2021	4th Grade	Social Studies	60.1	25	78	17.90	-17.90	320.41
Classroom 156	Winter	2021	9th Grade	Biology	25	100	75	50.00	-50.00	2500
Classroom 157	Winter	2021	4th Grade	Integrated Science	30.5	18	85.5	55.00	-55.00	3025
Classroom 158	Winter	2021	Kindergarten	Social Studies	88	15	95	7.00	-7.00	49
Classroom 159	Winter	2021	Kindergarten	Integrated Science	5.3	20	100	94.70	-94.70	8968.09
Classroom 160	Winter	2021	2nd Grade	Integrated Science	46	18	92.8	46.80	-46.80	2190.24
Classroom 161	Winter	2021	10th Grade	English	53.6	72	72	18.40	-18.40	338.56
Classroom 162	Winter	2021	2nd Grade	Physical Education	35.87	24	86	50.13	-50.13	2513.0169
Classroom 163	Winter	2021	9th Grade	Physical Education	60.2	18	95.4	35.20	-35.20	1239.04
Classroom 164	Winter	2021	5th Grade	Social Studies	21.6	15	59.4	37.80	-37.80	1428.84
Classroom 165	Winter	2021	7th Grade	Social Studies	41.06	50	25	-16.06	16.06	257.9236
Classroom 166	Winter	2021	3rd Grade	Integrated Science	53	19	80	27.00	-27.00	729
Classroom 167	Winter	2021	9th Grade	English	79	54	91	12.00	-12.00	144
Classroom 168	Winter	2021	12th Grade	English	60	8	75	15.00	-15.00	225
Classroom 169	Winter	2021	4th Grade	Integrated Science	48.75	17	92.25	43.50	-43.50	1892.25
Classroom 170	Winter	2021	1st Grade	Social Studies	30	21	80	50.00	-50.00	2500
Classroom 171	Winter	2021	5th Grade	Social Studies	26	20	67	41.00	-41.00	1681
Classroom 172	Winter	2021	10th Grade	Social Studies	52.467	116	80.6	28.13	-28.13	791.465689
Classroom 173	Winter	2021	4th Grade	Integrated Science	43	16	79	36.00	-36.00	1296
Classroom 174	Winter	2021	11th Grade	Social Studies	47	56	79	32.00	-32.00	1024
Classroom 175	Winter	2021	2nd Grade	Integrated Science	42	16	51	9.00	-9.00	81

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Classroom 176	Winter	2020	5th Grade	Integrated Science	66.667	16	95.25	28.58	-28.58	816.987889
Classroom 177	Winter	2021	9th Grade	English	70	61	88	18.00	-18.00	324
Classroom 178	Winter	2021	Kindergarten	Music	75	30	95	20.00	-20.00	400
Classroom 179	Winter	2021	Kindergarten	Integrated Science	64	13	84	20.00	-20.00	400
Classroom 180	Winter	2021	11th Grade	English	43	52	62	19.00	-19.00	361
Classroom 181	Winter	2021	5th Grade	Social Studies	82	12	88.9	6.90	-6.90	47.61
Classroom 182	Winter	2021	9th Grade	Social Studies	45	19	78	33.00	-33.00	1089
Classroom 183	Winter	2021	12th Grade	Mathematics	30	20	71	41.00	-41.00	1681
Classroom 184	Winter	2021	9th Grade	English	72.6	87	87	14.40	-14.40	207.36
Classroom 185	Winter	2021	12th Grade	Social Studies	75	22	95	20.00	-20.00	400
Classroom 186	Winter	2021	5th Grade	Social Studies	82	12	88.9	6.90	-6.90	47.61
Classroom 187	Winter	2021	7th Grade	Social Studies	61	43	83	22.00	-22.00	484
Classroom 188	Winter	2021	11th Grade	Mathematics	14	72	92	78.00	-78.00	6084
Classroom 189	Winter	2021	11th Grade	Music	39.653	55	46.895	7.24	-7.24	52.446564
Classroom 190	Winter	2021	Kindergarten	Integrated Science	34	18	75	41.00	-41.00	1681
Classroom 191	Winter	2021	12th Grade	English	45.2	90	52.6	7.40	-7.40	54.76
Classroom 192	Winter	2021	6th Grade	Mathematics	8.25	69	70	61.75	-61.75	3813.0625
Classroom 193	Winter	2021	10th Grade	Social Studies	53	49	76.8	23.80	-23.80	566.44
Classroom 194	Winter	2021	3rd Grade	Integrated Science	46	22	83	37.00	-37.00	1369
Classroom 195	Winter	2021	2nd Grade	Social Studies	45	23	91	46.00	-46.00	2116
Classroom 196	Winter	2021	3rd Grade	Social Studies	1.9	24	92	90.10	-90.10	8118.01
Classroom 197	Winter	2021	9th Grade	Mathematics	30	13	71	41.00	-41.00	1681
Classroom 198	Winter	2021	5th Grade	Physical Education	75	14	95	20.00	-20.00	400
Classroom 199	Winter	2021	10th Grade	Social Studies	31	46	72	41.00	-41.00	1681
Classroom 200	Winter	2021	8th Grade	Spanish	27.25	72	81	53.75	-53.75	2889.0625
Classroom 201	Winter	2021	7th Grade	Language Arts	46	102	91.25	45.25	-45.25	2047.5625
Classroom 202	Winter	2021	10th Grade	Social Studies	56	59	84	28.00	-28.00	784
Classroom 203	Winter	2021	5th Grade	Social Studies	30	16	70	40.00	-40.00	1600
Classroom 204	Winter	2021	5th Grade	Social Studies	41	21	77	36.00	-36.00	1296
Classroom 205	Winter	2021	5th Grade	Social Studies	15	19	82	67.00	-67.00	4489
Classroom 206	Winter	2021	5th Grade	Integrated Science	68.3	20	81	12.70	-12.70	161.29
Classroom 207	Winter	2021	11th Grade	Physical Education	100	83	100	0.00	0.00	0
Classroom 208	Winter	2021	1st Grade	Social Studies	64	21	74	10.00	-10.00	100
Classroom 209	Winter	2021	3rd Grade	Social Studies	26.7	23	78	51.30	-51.30	2631.69
Classroom 210	Winter	2021	9th Grade	English	25	18	47.667	22.67	-22.67	513.792889

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 211	Winter	2021	Kindergarten	Integrated Science	50	5	100	50.00	-50.00	2500
Classroom 212	Winter	2021	4th Grade	Integrated Science	54	17	76	22.00	-22.00	484
Classroom 213	Winter	2021	1st Grade	Social Studies	58	15	92	34.00	-34.00	1156
Classroom 214	Winter	2021	3rd Grade	Social Studies	50	17	81	31.00	-31.00	961
Classroom 215	Winter	2021	Kindergarten	Social Studies	46	18	87	41.00	-41.00	1681
Classroom 216	Winter	2021	5th Grade	Integrated Science	62.5	8	86.25	23.75	-23.75	564.0625
Classroom 217	Winter	2021	Kindergarten	Social Studies	72	15	92	20.00	-20.00	400
Classroom 218	Winter	2021	5th Grade	Social Studies	24.2	21	70.4	46.20	-46.20	2134.44
Classroom 219	Winter	2021	5th Grade	Integrated Science	45	20	56	11.00	-11.00	121
Classroom 220	Winter	2021	5th Grade	Integrated Science	32.16	19	89.67	57.51	-57.51	3307.4001
Classroom 221	Winter	2021	2nd Grade	Social Studies	55	11	71.4	16.40	-16.40	268.96
Classroom 222	Winter	2021	2nd Grade	Integrated Science	50	16	75	25.00	-25.00	625
Classroom 223	Winter	2021	2nd Grade	Social Studies	54.54	11	71	16.46	-16.46	270.9316
Classroom 224	Winter	2021	1st Grade	Social Studies	62	16	96	34.00	-34.00	1156
Classroom 225	Winter	2021	1st Grade	Integrated Science	56	25	93	37.00	-37.00	1369
Classroom 226	Winter	2021	4th Grade	Integrated Science	56	25	92	36.00	-36.00	1296
Classroom 227	Winter	2021	1st Grade	Integrated Science	57.3	19	97.3	40.00	-40.00	1600
Classroom 228	Winter	2021	Kindergarten	Integrated Science	58	18	87	29.00	-29.00	841
Classroom 229	Winter	2021	3rd Grade	Integrated Science	45	17	45	0.00	0.00	0
Classroom 230	Winter	2021	3rd Grade	Integrated Science	72	32	79	7.00	-7.00	49
Classroom 231	Winter	2021	2nd Grade	Integrated Science	57	23	84	27.00	-27.00	729
Classroom 232	Winter	2021	5th Grade	Social Studies	34.2	14	78.2	44.00	-44.00	1936
Classroom 233	Winter	2021	2nd Grade	Integrated Science	35	19	84	49.00	-49.00	2401
Classroom 234	Winter	2021	3rd Grade	Social Studies	18.5	18	90	71.50	-71.50	5112.25
Classroom 235	Winter	2021	8th Grade	Mathematics	49.2	69	86.6	37.40	-37.40	1398.76
Classroom 236	Winter	2021	4th Grade	Integrated Science	39.47	18	94.6	55.13	-55.13	3039.3169
Classroom 237	Winter	2021	Kindergarten	Social Studies	50	13	93	43.00	-43.00	1849
Classroom 238	Winter	2021	3rd Grade	Social Studies	51	19	84	33.00	-33.00	1089
Classroom 239	Winter	2021	5th Grade	Integrated Science	25	22	75	50.00	-50.00	2500
Classroom 240	Winter	2021	6th Grade	Social Studies	43	26	72	29.00	-29.00	841
Classroom 241	Winter	2021	2nd Grade	Integrated Science	50	22	93	43.00	-43.00	1849
Classroom 242	Winter	2021	5th Grade	Integrated Science	54.2	23	84.6	30.40	-30.40	924.16
Classroom 243	Winter	2021	6th Grade	Social Studies	47	12	87	40.00	-40.00	1600
Classroom 244	Winter	2021	6th Grade	Music	25	72	26	1.00	-1.00	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"
			Number of Tests = N 244	Number of K-12 Students:		Average % Improvement:			-7954.57	358244.72
				6986		32.60			"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
									L =Top Value ($\sum d/N$)	-32.60
									M =Middle value	98920.13
									O =Bottom Value	59292.00
									P =Square root of M/O	1.29
									T = (L/P)	-25.24
									$\alpha = 0.05$	Critical T = 1.645
										Significant
									T/Square Root of N = Effect	-1.616

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

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	Fall	2021	Kindergarten	Integrated Science	33	13	49	16.00	-16.00	256
Classroom 3	Fall	2021	Kindergarten	Integrated Science	78	15	80	2.00	-2.00	4
Classroom 13	Fall	2021	Kindergarten	Integrated Science	43.9	15	65	21.10	-21.10	445.21
Classroom 21	Fall	2021	Kindergarten	Integrated Science	46.8	15	65.4	18.60	-18.60	345.96
Classroom 27	Fall	2021	Kindergarten	Integrated Science	61.5	15	77.2	15.70	-15.70	246.49
Classroom 30	Fall	2021	Kindergarten	Integrated Science	61	19	98.9	37.90	-37.90	1436.41
Classroom 31	Fall	2021	Kindergarten	Integrated Science	65	25	85.6	20.60	-20.60	424.36
Classroom 33	Fall	2021	Kindergarten	Integrated Science	59.2	18	93.6	34.40	-34.40	1183.36
Classroom 40	Fall	2021	Kindergarten	Integrated Science	46	13	80	34.00	-34.00	1156
Classroom 73	Fall	2021	Kindergarten	Integrated Science	71	21	90	19.00	-19.00	361
Classroom 78	Fall	2021	Kindergarten	Integrated Science	71	20	88.2	17.20	-17.20	295.84
Classroom 81	Fall	2021	Kindergarten	Integrated Science	95.4	23	84.4	-11.00	11.00	121
Classroom 86	Fall	2021	Kindergarten	Social Studies	22.8	20	66.66	43.86	-43.86	1923.6996
Classroom 88	Fall	2021	Kindergarten	Integrated Science	46	24	79	33.00	-33.00	1089
Classroom 129	Winter	2021	Kindergarten	Social Studies	53	16	75	22.00	-22.00	484
Classroom 136	Winter	2021	Kindergarten	Social Studies	30	18	70	40.00	-40.00	1600
Classroom 144	Winter	2021	Kindergarten	Music	22	22	18	-4.00	4.00	16
Classroom 158	Winter	2021	Kindergarten	Social Studies	88	15	95	7.00	-7.00	49
Classroom 159	Winter	2021	Kindergarten	Integrated Science	5.3	20	100	94.70	-94.70	8968.09
Classroom 178	Winter	2021	Kindergarten	Music	75	30	95	20.00	-20.00	400
Classroom 179	Winter	2021	Kindergarten	Integrated Science	64	13	84	20.00	-20.00	400
Classroom 190	Winter	2021	Kindergarten	Integrated Science	34	18	75	41.00	-41.00	1681
Classroom 211	Winter	2021	Kindergarten	Integrated Science	50	5	100	50.00	-50.00	2500
Classroom 215	Winter	2021	Kindergarten	Social Studies	46	18	87	41.00	-41.00	1681
Classroom 217	Winter	2021	Kindergarten	Social Studies	72	15	92	20.00	-20.00	400
Classroom 228	Winter	2021	Kindergarten	Integrated Science	58	18	87	29.00	-29.00	841
Classroom 237	Winter	2021	Kindergarten	Social Studies	50	13	93	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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Number of Tests = N			Number of K-12 Students:			Average % Improvement:			-726.06	30157.42
27			475			26.89			"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
$t = \frac{\frac{\sum d}{N}}{\sqrt{\frac{\sum d^2 - \frac{(\sum d)^2}{N}}{N(N-1)}}$									L =Top Value ($\sum d/N$)	-26.89
									M =Middle value	10632.86
									O =Bottom Value	702.00
									P =Square root of M/O	3.89
									T = (L/P)	-6.91
									$\alpha = 0.05$	Critical T = 1.645
									T/Square Root of N = Effect	-1.330
									Significant	

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 8	Fall	2021	1st Grade	Social Studies	35	15	74	39.00	-39.00	1521
Classroom 12	Fall	2021	1st Grade	Social Studies	43	22	93	50.00	-50.00	2500
Classroom 18	Fall	2021	1st Grade	Mathematics	45	20	92	47.00	-47.00	2209
Classroom 19	Fall	2021	1st Grade	Social Studies	56	21	96	40.00	-40.00	1600
Classroom 35	Fall	2021	1st Grade	Social Studies	48.61	17	60.83	12.22	-12.22	149.3284
Classroom 36	Fall	2021	1st Grade	Integrated Science	50	18	67	17.00	-17.00	289
Classroom 58	Fall	2021	1st Grade	Integrated Science	59.6	20	96.6	37.00	-37.00	1369
Classroom 59	Fall	2021	1st Grade	Integrated Science	66.64	17	100	33.36	-33.36	1112.8896
Classroom 65	Fall	2021	1st Grade	Integrated Science	38	19	47.5	9.50	-9.50	90.25
Classroom 70	Fall	2021	1st Grade	Integrated Science	41	21	57	16.00	-16.00	256
Classroom 71	Fall	2021	1st Grade	Integrated Science	35.714	19	71.428	35.71	-35.71	1275.489796
Classroom 83	Fall	2021	1st Grade	Integrated Science	41.6	16	84.45	42.85	-42.85	1836.1225
Classroom 91	Fall	2021	1st Grade	Social Studies	60	23	88	28.00	-28.00	784
Classroom 102	Fall	2021	1st Grade	Integrated Science	57	20	55	-2.00	2.00	4
Classroom 120	Fall	2021	1st Grade	Integrated Science	66	23	93	27.00	-27.00	729
Classroom 122	Fall	2021	1st Grade	Integrated Science	64	16	77	13.00	-13.00	169
Classroom 170	Winter	2021	1st Grade	Social Studies	30	21	80	50.00	-50.00	2500
Classroom 208	Winter	2021	1st Grade	Social Studies	64	21	74	10.00	-10.00	100
Classroom 213	Winter	2021	1st Grade	Social Studies	58	15	92	34.00	-34.00	1156
Classroom 224	Winter	2021	1st Grade	Social Studies	62	16	96	34.00	-34.00	1156
Classroom 225	Winter	2021	1st Grade	Integrated Science	56	25	93	37.00	-37.00	1369
Classroom 227	Winter	2021	1st Grade	Integrated Science	57.3	19	97.3	40.00	-40.00	1600

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 K-12 Students:			Average % Improvement:			-650.64	23775.08
22			418			29.57			"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
									L =Top Value ($\sum d/N$)	-29.57
									M =Middle value	4532.46
									O =Bottom Value	462.00
									P =Square root of M/O	3.13
									T = (L/P)	-9.44
									$\alpha = 0.05$	Critical T = 1.645
										Significant
									T/Square Root of N = Effect	-2.013

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

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	Fall	2021	2nd Grade	Integrated Science	52	21	84	32.00	-32.00	1024
Classroom 22	Fall	2021	2nd Grade	Social Studies	65	19	70	5.00	-5.00	25
Classroom 24	Fall	2021	2nd Grade	Social Studies	70	22	50.65	-19.35	19.35	374.4225
Classroom 38	Fall	2021	2nd Grade	Social Studies	29.86	15	92.06	62.20	-62.20	3868.84
Classroom 51	Fall	2021	2nd Grade	Integrated Science	32	18	61	29.00	-29.00	841
Classroom 56	Fall	2021	2nd Grade	Integrated Science	78	19	89	11.00	-11.00	121
Classroom 60	Fall	2021	2nd Grade	Integrated Science	88	23	89	1.00	-1.00	1
Classroom 61	Fall	2021	2nd Grade	Integrated Science	45	18	86	41.00	-41.00	1681
Classroom 77	Fall	2021	2nd Grade	Social Studies	15	12	68	53.00	-53.00	2809
Classroom 89	Fall	2021	2nd Grade	Integrated Science	72	13	79	7.00	-7.00	49
Classroom 92	Fall	2021	2nd Grade	Social Studies	89	20	72.5	-16.50	16.50	272.25
Classroom 93	Fall	2021	2nd Grade	Social Studies	42	22	91	49.00	-49.00	2401
Classroom 94	Fall	2021	2nd Grade	Integrated Science	77	20	72	-5.00	5.00	25
Classroom 96	Fall	2021	2nd Grade	Integrated Science	84	21	87	3.00	-3.00	9
Classroom 98	Fall	2021	2nd Grade	Integrated Science	40	16	83	43.00	-43.00	1849
Classroom 113	Fall	2021	2nd Grade	Integrated Science	56.2	21	79	22.80	-22.80	519.84
Classroom 121	Fall	2021	2nd Grade	Social Studies	61	16	81	20.00	-20.00	400
Classroom 123	Fall	2021	2nd Grade	Integrated Science	56	21	83	27.00	-27.00	729
Classroom 131	Winter	2021	2nd Grade	Music	43	18	94	51.00	-51.00	2601
Classroom 153	Winter	2021	2nd Grade	Integrated Science	23	18	90	67.00	-67.00	4489
Classroom 160	Winter	2021	2nd Grade	Integrated Science	46	18	92.8	46.80	-46.80	2190.24
Classroom 162	Winter	2021	2nd Grade	Physical Education	35.87	24	86	50.13	-50.13	2513.0169
Classroom 175	Winter	2021	2nd Grade	Integrated Science	42	16	51	9.00	-9.00	81
Classroom 195	Winter	2021	2nd Grade	Social Studies	45	23	91	46.00	-46.00	2116
Classroom 221	Winter	2021	2nd Grade	Social Studies	55	11	71.4	16.40	-16.40	268.96
Classroom 222	Winter	2021	2nd Grade	Integrated Science	50	16	75	25.00	-25.00	625
Classroom 223	Winter	2021	2nd Grade	Social Studies	54.54	11	71	16.46	-16.46	270.9316
Classroom 231	Winter	2021	2nd Grade	Integrated Science	57	23	84	27.00	-27.00	729
Classroom 233	Winter	2021	2nd Grade	Integrated Science	35	19	84	49.00	-49.00	2401
Classroom 241	Winter	2021	2nd Grade	Integrated Science	50	22	93	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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Number of Tests = N			Number of K-12 Students:			Average % Improvement:			-811.94	37133.50
30			549			27.06			"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
$t = \frac{\frac{\sum d}{N}}{\sqrt{\frac{\sum d^2 - \frac{(\sum d)^2}{N}}{N(N-1)}}$									L =Top Value ($\sum d/N$)	-27.06
									M =Middle value	15158.62
									O =Bottom Value	870.00
									P =Square root of M/O	4.17
									T = (L/P)	-6.48
									$\alpha = 0.05$	Critical T = 1.645
										Significant
T/Square Root of N = Effect									-1.184	

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	Fall	2021	3rd Grade	Integrated Science	79	29	93	14.00	-14.00	196
Classroom 23	Fall	2021	3rd Grade	Social Studies	62	20	50.65	-11.35	11.35	128.8225
Classroom 32	Fall	2021	3rd Grade	Social Studies	35	18	81	46.00	-46.00	2116
Classroom 45	Fall	2021	3rd Grade	Integrated Science	45	16	82	37.00	-37.00	1369
Classroom 46	Fall	2021	3rd Grade	Integrated Science	29	34	90	61.00	-61.00	3721
Classroom 68	Fall	2021	3rd Grade	Integrated Science	53	24	84	31.00	-31.00	961
Classroom 80	Fall	2021	3rd Grade	Integrated Science	56	23	79	23.00	-23.00	529
Classroom 82	Fall	2021	3rd Grade	Integrated Science	46	47	71	25.00	-25.00	625
Classroom 101	Fall	2021	3rd Grade	Integrated Science	44	19	61	17.00	-17.00	289
Classroom 111	Fall	2021	3rd Grade	Integrated Science	40	21	77	37.00	-37.00	1369
Classroom 116	Fall	2021	3rd Grade	Social Studies	30	19	50	20.00	-20.00	400
Classroom 127	Winter	2021	3rd Grade	Social Studies	50	14	91	41.00	-41.00	1681
Classroom 145	Winter	2021	3rd Grade	Social Studies	8.6	26	64.4	55.80	-55.80	3113.64
Classroom 166	Winter	2021	3rd Grade	Integrated Science	53	19	80	27.00	-27.00	729
Classroom 194	Winter	2021	3rd Grade	Integrated Science	46	22	83	37.00	-37.00	1369
Classroom 196	Winter	2021	3rd Grade	Social Studies	1.9	24	92	90.10	-90.10	8118.01
Classroom 209	Winter	2021	3rd Grade	Social Studies	26.7	23	78	51.30	-51.30	2631.69
Classroom 214	Winter	2021	3rd Grade	Social Studies	50	17	81	31.00	-31.00	961
Classroom 229	Winter	2021	3rd Grade	Integrated Science	45	17	45	0.00	0.00	0
Classroom 230	Winter	2021	3rd Grade	Integrated Science	72	32	79	7.00	-7.00	49
Classroom 234	Winter	2021	3rd Grade	Social Studies	18.5	18	90	71.50	-71.50	5112.25
Classroom 238	Winter	2021	3rd Grade	Social Studies	51	19	84	33.00	-33.00	1089

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 K-12 Students:			Average % Improvement:			-744.35	36557.41
22			497			33.83			"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
									L =Top Value ($\sum d/N$)	-33.83
									M =Middle value	11373.01
									O =Bottom Value	462.00
									P =Square root of M/O	4.96
									T = (L/P)	-6.82
									$\alpha = 0.05$	Critical T = 1.645
										Significant
									T/Square Root of N = Effect	-1.454

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

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	Fall	2020	4th Grade	Integrated Science	45	26	85	40.00	-40.00	1600
Classroom 9	Fall	2021	4th Grade	Social Studies	17	24	90	73.00	-73.00	5329
Classroom 16	Fall	2021	4th Grade	Social Studies	25	16	75	50.00	-50.00	2500
Classroom 17	Fall	2021	4th Grade	Integrated Science	60	23	89	29.00	-29.00	841
Classroom 28	Fall	2021	4th Grade	Integrated Science	3.92	15	56.94	53.02	-53.02	2811.1204
Classroom 37	Fall	2021	4th Grade	Integrated Science	65	20	94	29.00	-29.00	841
Classroom 39	Fall	2021	4th Grade	Integrated Science	28	18	63	35.00	-35.00	1225
Classroom 41	Fall	2021	4th Grade	Social Studies	17.65	22	50	32.35	-32.35	1046.5225
Classroom 44	Fall	2021	4th Grade	Integrated Science	62	22	90	28.00	-28.00	784
Classroom 49	Fall	2021	4th Grade	Social Studies	64	22	90	26.00	-26.00	676
Classroom 55	Fall	2021	4th Grade	Integrated Science	29	16	82	53.00	-53.00	2809
Classroom 67	Fall	2021	4th Grade	Social Studies	40	20	83	43.00	-43.00	1849
Classroom 74	Fall	2021	4th Grade	Social Studies	39	25	85	46.00	-46.00	2116
Classroom 79	Fall	2021	4th Grade	Integrated Science	15	17	73	58.00	-58.00	3364
Classroom 90	Fall	2021	4th Grade	Integrated Science	66	23	87	21.00	-21.00	441
Classroom 95	Fall	2021	4th Grade	Integrated Science	74	21	80	6.00	-6.00	36
Classroom 97	Fall	2021	4th Grade	Integrated Science	40	20	84	44.00	-44.00	1936
Classroom 114	Fall	2021	4th Grade	Integrated Science	30	16	90	60.00	-60.00	3600
Classroom 115	Fall	2021	4th Grade	Integrated Science	46	23	76	30.00	-30.00	900
Classroom 124	Fall	2021	4th Grade	Social Studies	35	23	69	34.00	-34.00	1156
Classroom 146	Winter	2021	4th Grade	Social Studies	23	21	61	38.00	-38.00	1444
Classroom 155	Winter	2021	4th Grade	Social Studies	60.1	25	78	17.90	-17.90	320.41
Classroom 157	Winter	2021	4th Grade	Integrated Science	30.5	18	85.5	55.00	-55.00	3025
Classroom 169	Winter	2021	4th Grade	Integrated Science	48.75	17	92.25	43.50	-43.50	1892.25
Classroom 173	Winter	2021	4th Grade	Integrated Science	43	16	79	36.00	-36.00	1296
Classroom 212	Winter	2021	4th Grade	Integrated Science	54	17	76	22.00	-22.00	484
Classroom 226	Winter	2021	4th Grade	Integrated Science	56	25	92	36.00	-36.00	1296
Classroom 236	Winter	2021	4th Grade	Integrated Science	39.47	18	94.6	55.13	-55.13	3039.3169

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 K-12 Students:			Average % Improvement:			-1093.90	48657.62
28			564			39.07			"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
									L =Top Value ($\sum d/N$)	-39.07
									M =Middle value	5921.29
									O =Bottom Value	756.00
									P =Square root of M/O	2.80
									T = (L/P)	-13.96
									$\alpha = 0.05$	Critical T = 1.645
										Significant
									T/Square Root of N = Effect	-2.638

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

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 7	Fall	2021	5th Grade	Social Studies	31	22	90	59.00	-59.00	3481
Classroom 10	Fall	2021	5th Grade	Social Studies	62	19	84	22.00	-22.00	484
Classroom 29	Fall	2021	5th Grade	Social Studies	53	13	66	13.00	-13.00	169
Classroom 34	Fall	2021	5th Grade	Social Studies	36	20	77	41.00	-41.00	1681
Classroom 42	Fall	2021	5th Grade	Integrated Science	30	17	86	56.00	-56.00	3136
Classroom 48	Fall	2021	5th Grade	Integrated Science	50	21	73	23.00	-23.00	529
Classroom 50	Fall	2021	5th Grade	Integrated Science	54.68	22	83.31	28.63	-28.63	819.6769
Classroom 52	Fall	2021	5th Grade	Social Studies	25	24	61	36.00	-36.00	1296
Classroom 63	Fall	2021	5th Grade	Integrated Science	62	41	83.6	21.60	-21.60	466.56
Classroom 66	Fall	2021	5th Grade	Social Studies	12.5	20	84.67	72.17	-72.17	5208.5089
Classroom 69	Fall	2021	5th Grade	Social Studies	40	22	85	45.00	-45.00	2025
Classroom 76	Fall	2021	5th Grade	Social Studies	48	25	66	18.00	-18.00	324
Classroom 84	Fall	2021	5th Grade	Social Studies	37	23	87	50.00	-50.00	2500
Classroom 85	Fall	2021	5th Grade	Integrated Science	6.6	19	73	66.40	-66.40	4408.96
Classroom 100	Fall	2021	5th Grade	Integrated Science	49	20	76	27.00	-27.00	729
Classroom 112	Fall	2021	5th Grade	Integrated Science	62.9	15	86.6	23.70	-23.70	561.69
Classroom 133	Winter	2021	5th Grade	Integrated Science	65	17	92	27.00	-27.00	729
Classroom 134	Winter	2021	5th Grade	Social Studies	11	15	85	74.00	-74.00	5476
Classroom 149	Winter	2021	5th Grade	Social Studies	28	17	50	22.00	-22.00	484
Classroom 151	Winter	2021	5th Grade	Integrated Science	52	19	81	29.00	-29.00	841
Classroom 164	Winter	2021	5th Grade	Social Studies	21.6	15	59.4	37.80	-37.80	1428.84
Classroom 171	Winter	2021	5th Grade	Social Studies	26	20	67	41.00	-41.00	1681
Classroom 176	Winter	2020	5th Grade	Integrated Science	66.667	16	95.25	28.58	-28.58	816.987889
Classroom 181	Winter	2021	5th Grade	Social Studies	82	12	88.9	6.90	-6.90	47.61
Classroom 186	Winter	2021	5th Grade	Social Studies	82	12	88.9	6.90	-6.90	47.61
Classroom 198	Winter	2021	5th Grade	Physical Education	75	14	95	20.00	-20.00	400
Classroom 203	Winter	2021	5th Grade	Social Studies	30	16	70	40.00	-40.00	1600
Classroom 204	Winter	2021	5th Grade	Social Studies	41	21	77	36.00	-36.00	1296
Classroom 205	Winter	2021	5th Grade	Social Studies	15	19	82	67.00	-67.00	4489
Classroom 206	Winter	2021	5th Grade	Integrated Science	68.3	20	81	12.70	-12.70	161.29
Classroom 216	Winter	2021	5th Grade	Integrated Science	62.5	8	86.25	23.75	-23.75	564.0625
Classroom 218	Winter	2021	5th Grade	Social Studies	24.2	21	70.4	46.20	-46.20	2134.44
Classroom 219	Winter	2021	5th Grade	Integrated Science	45	20	56	11.00	-11.00	121
Classroom 220	Winter	2021	5th Grade	Integrated Science	32.16	19	89.67	57.51	-57.51	3307.4001
Classroom 232	Winter	2021	5th Grade	Social Studies	34.2	14	78.2	44.00	-44.00	1936

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 239	Winter	2021	5th Grade	Integrated Science	25	22	75	50.00	-50.00	2500
Classroom 242	Winter	2021	5th Grade	Integrated Science	54.2	23	84.6	30.40	-30.40	924.16

Number of Tests = N 37	Number of K-12 Students: 692	Average % Improvement: 35.52	-1314.24	58804.80
			"X-Y" or "ED"	"(X-Y)^2" or "ED^2"

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

L =Top Value ($\sum d/N$)	-35.52
M =Middle value	12122.78
O =Bottom Value	1332.00
P =Square root of M/O	3.02
T = (L/P)	-11.77
$\alpha = 0.05$	Critical T = 1.645
	Significant
T/Square Root of N = Effect	-1.936

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 47	Fall	2021	6th Grade	Language Arts	17	45	89.333	72.33	-72.33	5232.062889
Classroom 57	Fall	2021	6th Grade	Integrated Science	17.6	22	72.5	54.90	-54.90	3014.01
Classroom 64	Fall	2021	6th Grade	Social Studies	46	21	78	32.00	-32.00	1024
Classroom 99	Fall	2021	6th Grade	Music	23	27	91	68.00	-68.00	4624
Classroom 118	Fall	2021	6th Grade	Social Studies	2.467	94	70.53	68.06	-68.06	4632.571969
Classroom 152	Winter	2021	6th Grade	Music	50	22	90	40.00	-40.00	1600
Classroom 192	Winter	2021	6th Grade	Mathematics	8.25	69	70	61.75	-61.75	3813.0625
Classroom 240	Winter	2021	6th Grade	Social Studies	43	26	72	29.00	-29.00	841
Classroom 243	Winter	2021	6th Grade	Social Studies	47	12	87	40.00	-40.00	1600
Classroom 244	Winter	2021	6th Grade	Music	25	72	26	1.00	-1.00	1
Classroom 53	Fall	2021	7th Grade	Spanish	22.88	72	84.61	61.73	-61.73	3810.5929
Classroom 103	Fall	2021	7th Grade	Social Studies	45.4	67	71.4	26.00	-26.00	676
Classroom 104	Fall	2021	7th Grade	Social Studies	63.333	26	100	36.67	-36.67	1344.468889
Classroom 107	Fall	2021	7th Grade	Social Studies	36.222	101	79.778	43.56	-43.56	1897.125136
Classroom 126	Fall	2021	7th Grade	English	12.5	18	95	82.50	-82.50	6806.25
Classroom 130	Winter	2021	7th Grade	Music	34.8	259	76.4	41.60	-41.60	1730.56
Classroom 135	Winter	2021	7th Grade	Physical Education	72	15	77.5	5.50	-5.50	30.25
Classroom 139	Winter	2021	7th Grade	Music	33.333	20	100	66.67	-66.67	4444.488889
Classroom 140	Winter	2021	7th Grade	Music	40	4	57	17.00	-17.00	289
Classroom 165	Winter	2021	7th Grade	Social Studies	41.06	50	25	-16.06	16.06	257.9236
Classroom 187	Winter	2021	7th Grade	Social Studies	61	43	83	22.00	-22.00	484
Classroom 201	Winter	2021	7th Grade	Language Arts	46	102	91.25	45.25	-45.25	2047.5625
Classroom 75	Fall	2021	8th Grade	Language Arts	5	22	78	73.00	-73.00	5329
Classroom 108	Fall	2021	8th Grade	English	75	120	81.5	6.50	-6.50	42.25
Classroom 128	Winter	2021	8th Grade	Art Education	21	19	60	39.00	-39.00	1521
Classroom 132	Winter	2021	8th Grade	Physical Education	68	10	86	18.00	-18.00	324
Classroom 148	Winter	2021	8th Grade	Social Studies	31.3	15	96	64.70	-64.70	4186.09
Classroom 200	Winter	2021	8th Grade	Spanish	27.25	72	81	53.75	-53.75	2889.0625
Classroom 235	Winter	2021	8th Grade	Mathematics	49.2	69	86.6	37.40	-37.40	1398.76

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 K-12 Students:			Average % Improvement:			-1191.81	65890.09
29			1509			41.10			"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
									L =Top Value ($\sum d/N$)	-41.10
									M =Middle value	16910.73
									O =Bottom Value	812.00
									P =Square root of M/O	4.56
									T = (L/P)	-9.01
									$\alpha = 0.05$	Critical T = 1.645
										Significant
									T/Square Root of N = Effect	-1.672

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

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 5	Fall	2021	9th Grade	Social Studies	35.1	33	80.9	45.80	-45.80	2097.64
Classroom 25	Fall	2021	9th Grade	Biology	36.77	102	60.81	24.04	-24.04	577.9216
Classroom 119	Fall	2021	9th Grade	Latin	21.18	41	81.07	59.89	-59.89	3586.8121
Classroom 137	Winter	2021	9th Grade	English	56.667	24	93.333	36.67	-36.67	1344.395556
Classroom 147	Winter	2021	9th Grade	English	88.75	29	89	0.25	-0.25	0.0625
Classroom 156	Winter	2021	9th Grade	Biology	25	100	75	50.00	-50.00	2500
Classroom 163	Winter	2021	9th Grade	Physical Education	60.2	18	95.4	35.20	-35.20	1239.04
Classroom 167	Winter	2021	9th Grade	English	79	54	91	12.00	-12.00	144
Classroom 177	Winter	2021	9th Grade	English	70	61	88	18.00	-18.00	324
Classroom 182	Winter	2021	9th Grade	Social Studies	45	19	78	33.00	-33.00	1089
Classroom 184	Winter	2021	9th Grade	English	72.6	87	87	14.40	-14.40	207.36
Classroom 197	Winter	2021	9th Grade	Mathematics	30	13	71	41.00	-41.00	1681
Classroom 210	Winter	2021	9th Grade	English	25	18	47.667	22.67	-22.67	513.792889
Classroom 4	Fall	2021	10th Grade	Social Studies	17	56	81.7	64.70	-64.70	4186.09
Classroom 43	Fall	2021	10th Grade	English	60	26	75	15.00	-15.00	225
Classroom 72	Fall	2021	10th Grade	English	39.95	22	83.4	43.45	-43.45	1887.9025
Classroom 87	Fall	2021	10th Grade	Social Studies	30	51	82	52.00	-52.00	2704
Classroom 106	Fall	2021	10th Grade	Social Studies	36.5	51	75	38.50	-38.50	1482.25
Classroom 109	Fall	2021	10th Grade	Mathematics	45	21	76	31.00	-31.00	961
Classroom 138	Winter	2021	10th Grade	Spanish	76	35	89	13.00	-13.00	169
Classroom 141	Winter	2021	10th Grade	Earth Science	29	11	51	22.00	-22.00	484
Classroom 154	Winter	2021	10th Grade	Mathematics	38.8	12	86.5	47.70	-47.70	2275.29
Classroom 161	Winter	2021	10th Grade	English	53.6	72	72	18.40	-18.40	338.56
Classroom 172	Winter	2021	10th Grade	Social Studies	52.467	116	80.6	28.13	-28.13	791.465689
Classroom 193	Winter	2021	10th Grade	Social Studies	53	49	76.8	23.80	-23.80	566.44
Classroom 199	Winter	2021	10th Grade	Social Studies	31	46	72	41.00	-41.00	1681
Classroom 202	Winter	2021	10th Grade	Social Studies	56	59	84	28.00	-28.00	784
Classroom 14	Fall	2021	11th Grade	Social Studies	43	45	73	30.00	-30.00	900
Classroom 20	Fall	2021	11th Grade	Social Studies	42.35	14	64	21.65	-21.65	468.7225
Classroom 26	Fall	2021	11th Grade	Mathematics	45.9	39	73.4	27.50	-27.50	756.25
Classroom 54	Fall	2021	11th Grade	Social Studies	36	72	76	40.00	-40.00	1600
Classroom 62	Fall	2021	11th Grade	English	59.67	89	61.92	2.25	-2.25	5.0625
Classroom 143	Winter	2021	11th Grade	Economics	51	35	70	19.00	-19.00	361
Classroom 150	Winter	2021	11th Grade	Chemistry	30	43	85	55.00	-55.00	3025
Classroom 174	Winter	2021	11th Grade	Social Studies	47	56	79	32.00	-32.00	1024

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 180	Winter	2021	11th Grade	English	43	52	62	19.00	-19.00	361
Classroom 188	Winter	2021	11th Grade	Mathematics	14	72	92	78.00	-78.00	6084
Classroom 189	Winter	2021	11th Grade	Music	39.653	55	46.895	7.24	-7.24	52.446564
Classroom 207	Winter	2021	11th Grade	Physical Education	100	83	100	0.00	0.00	0
Classroom 15	Fall	2021	12th Grade	English	34	84	45.4	11.40	-11.40	129.96
Classroom 105	Fall	2021	12th Grade	Economics	38.16	51	68.5	30.34	-30.34	920.5156
Classroom 110	Fall	2021	12th Grade	Mathematics	78	30	74.25	-3.75	3.75	14.0625
Classroom 117	Fall	2021	12th Grade	Art Education	60	55	88	28.00	-28.00	784
Classroom 125	Fall	2021	12th Grade	Biology	31.5	38	97.5	66.00	-66.00	4356
Classroom 142	Winter	2021	12th Grade	English	40	8	55	15.00	-15.00	225
Classroom 168	Winter	2021	12th Grade	English	60	8	75	15.00	-15.00	225
Classroom 183	Winter	2021	12th Grade	Mathematics	30	20	71	41.00	-41.00	1681
Classroom 185	Winter	2021	12th Grade	Social Studies	75	22	95	20.00	-20.00	400
Classroom 191	Winter	2021	12th Grade	English	45.2	90	52.6	7.40	-7.40	54.76

Number of Tests = N 49	Number of K-12 Students: 2283	Average % Improvement: 29.01	-1421.63	57268.80
			"X-Y" or "ED"	"(X-Y)^2" or "ED^2"

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

L =Top Value (Σd/N)	-29.01
M =Middle value	16023.37
O =Bottom Value	2352.00
P =Square root of M/O	2.61
T = (L/P)	-11.12
α = 0.05	Critical T = 1.645
	Significant
T/Square Root of N = Effect	-1.588

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 99	Fall	2021	6th Grade	Music	23	27	91	68.00	-68.00	4624
Classroom 117	Fall	2021	12th Grade	Art Education	60	55	88	28.00	-28.00	784
Classroom 128	Winter	2021	8th Grade	Art Education	21	19	60	39.00	-39.00	1521
Classroom 130	Winter	2021	7th Grade	Music	34.8	259	76.4	41.60	-41.60	1730.56
Classroom 131	Winter	2021	2nd Grade	Music	43	18	94	51.00	-51.00	2601
Classroom 139	Winter	2021	7th Grade	Music	33.333	20	100	66.67	-66.67	4444.488889
Classroom 140	Winter	2021	7th Grade	Music	40	4	57	17.00	-17.00	289
Classroom 144	Winter	2021	Kindergarten	Music	22	22	18	-4.00	4.00	16
Classroom 152	Winter	2021	6th Grade	Music	50	22	90	40.00	-40.00	1600
Classroom 178	Winter	2021	Kindergarten	Music	75	30	95	20.00	-20.00	400
Classroom 189	Winter	2021	11th Grade	Music	39.653	55	46.895	7.24	-7.24	52.446564
Classroom 244	Winter	2021	6th Grade	Music	25	72	26	1.00	-1.00	1

Number of Tests = N	Number of K-12 Students:	Average % Improvement:	-375.51	18063.50
12	602	31.29	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"

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

L =Top Value (Σd/N)	-31.29
M =Middle value	6312.91
O =Bottom Value	132.00
P =Square root of M/O	6.92
T = (L/P)	-4.52
α = 0.05	Critical T = 1.645
	Significant
T/Square Root of N = Effect	-1.306

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 15	Fall	2021	12th Grade	English	34	84	45.4	11.40	-11.40	129.96
Classroom 43	Fall	2021	10th Grade	English	60	26	75	15.00	-15.00	225
Classroom 47	Fall	2021	6th Grade	Language Arts	17	45	89.333	72.33	-72.33	5232.062889
Classroom 62	Fall	2021	11th Grade	English	59.67	89	61.92	2.25	-2.25	5.0625
Classroom 72	Fall	2021	10th Grade	English	39.95	22	83.4	43.45	-43.45	1887.9025
Classroom 75	Fall	2021	8th Grade	Language Arts	5	22	78	73.00	-73.00	5329
Classroom 108	Fall	2021	8th Grade	English	75	120	81.5	6.50	-6.50	42.25
Classroom 126	Fall	2021	7th Grade	English	12.5	18	95	82.50	-82.50	6806.25
Classroom 137	Winter	2021	9th Grade	English	56.667	24	93.333	36.67	-36.67	1344.395556
Classroom 142	Winter	2021	12th Grade	English	40	8	55	15.00	-15.00	225
Classroom 147	Winter	2021	9th Grade	English	88.75	29	89	0.25	-0.25	0.0625
Classroom 161	Winter	2021	10th Grade	English	53.6	72	72	18.40	-18.40	338.56
Classroom 167	Winter	2021	9th Grade	English	79	54	91	12.00	-12.00	144
Classroom 168	Winter	2021	12th Grade	English	60	8	75	15.00	-15.00	225
Classroom 177	Winter	2021	9th Grade	English	70	61	88	18.00	-18.00	324
Classroom 180	Winter	2021	11th Grade	English	43	52	62	19.00	-19.00	361
Classroom 184	Winter	2021	9th Grade	English	72.6	87	87	14.40	-14.40	207.36
Classroom 191	Winter	2021	12th Grade	English	45.2	90	52.6	7.40	-7.40	54.76
Classroom 201	Winter	2021	7th Grade	Language Arts	46	102	91.25	45.25	-45.25	2047.5625
Classroom 210	Winter	2021	9th Grade	English	25	18	47.667	22.67	-22.67	513.792889

Number of Tests = N	Number of K-12 Students:	Average % Improvement:	-530.47	25442.98
20	1029	26.52	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"

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

L =Top Value (Σd/N)	-26.52
M =Middle value	11373.27
O =Bottom Value	380.00
P =Square root of M/O	5.47
T = (L/P)	-4.85
α = 0.05	Critical T = 1.645
	Significant
T/Square Root of N = Effect	-1.084

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 18	Fall	2021	1st Grade	Mathematics	45	20	92	47.00	-47.00	2209
Classroom 26	Fall	2021	11th Grade	Mathematics	45.9	39	73.4	27.50	-27.50	756.25
Classroom 105	Fall	2021	12th Grade	Mathematics	38.16	51	68.5	30.34	-30.34	920.5156
Classroom 109	Fall	2021	10th Grade	Mathematics	45	21	76	31.00	-31.00	961
Classroom 110	Fall	2021	12th Grade	Mathematics	78	30	74.25	-3.75	3.75	14.0625
Classroom 143	Winter	2021	11th Grade	Mathematics	51	35	70	19.00	-19.00	361
Classroom 154	Winter	2021	10th Grade	Mathematics	38.8	12	86.5	47.70	-47.70	2275.29
Classroom 183	Winter	2021	12th Grade	Mathematics	30	20	71	41.00	-41.00	1681
Classroom 188	Winter	2021	11th Grade	Mathematics	14	72	92	78.00	-78.00	6084
Classroom 192	Winter	2021	6th Grade	Mathematics	8.25	69	70	61.75	-61.75	3813.0625
Classroom 197	Winter	2021	9th Grade	Mathematics	30	13	71	41.00	-41.00	1681
Classroom 235	Winter	2021	8th Grade	Mathematics	49.2	69	86.6	37.40	-37.40	1398.76

Number of Tests = N	Number of K-12 Students:	Average % Improvement:	-457.94	22154.94
12	450	38.16	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"

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

L =Top Value (Σd/N)	-38.16
M =Middle value	4679.19
O =Bottom Value	132.00
P =Square root of M/O	5.95
T = (L/P)	-6.41
α = 0.05	Critical T = 1.645
	Significant
T/Square Root of N = Effect	-1.850

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 53	Fall	2021	7th Grade	Spanish	22.88	72	84.61	61.73	-61.73	3810.5929
Classroom 119	Fall	2021	9th Grade	Latin	21.18	41	81.07	59.89	-59.89	3586.8121
Classroom 138	Winter	2021	10th Grade	Spanish	76	35	89	13.00	-13.00	169
Classroom 200	Winter	2021	8th Grade	Spanish	27.25	72	81	53.75	-53.75	2889.0625

Number of Tests = N	Number of K-12 Students:	Average % Improvement:	-188.37	10455.47
4	219	47.09	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
			L =Top Value ($\sum d/N$)	-47.09
			M =Middle value	1584.65
			O =Bottom Value	12.00
			P =Square root of M/O	11.49
			T = (L/P)	-4.10
			$\alpha = 0.05$	Critical T = 1.645
				Significant
			T/Square Root of N = Effect	-2.049

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

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 132	Winter	2021	8th Grade	Physical Education	68	10	86	18.00	-18.00	324
Classroom 135	Winter	2021	7th Grade	Physical Education	72	15	77.5	5.50	-5.50	30.25
Classroom 162	Winter	2021	2nd Grade	Physical Education	35.87	24	86	50.13	-50.13	2513.0169
Classroom 163	Winter	2021	9th Grade	Physical Education	60.2	18	95.4	35.20	-35.20	1239.04
Classroom 198	Winter	2021	5th Grade	Physical Education	75	14	95	20.00	-20.00	400
Classroom 207	Winter	2021	11th Grade	Physical Education	100	83	100	0.00	0.00	0

Number of Tests = N	Number of K-12 Students:	Average % Improvement:	-128.83	4506.31
6	164	21.47	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
			L =Top Value ($\sum d/N$)	-21.47
			M =Middle value	1740.11
			O =Bottom Value	30.00
			P =Square root of M/O	7.62
			T = (L/P)	-2.82
			$\alpha = 0.05$	Critical T = 1.645
				Significant
			T/Square Root of N = Effect	-1.151

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

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	Fall	2021	Kindergarten	Integrated Science	33	13	49	16.00	-16.00	256
Classroom 2	Fall	2021	3rd Grade	Integrated Science	79	29	93	14.00	-14.00	196
Classroom 3	Fall	2021	Kindergarten	Integrated Science	78	15	80	2.00	-2.00	4
Classroom 6	Fall	2020	4th Grade	Integrated Science	45	26	85	40.00	-40.00	1600
Classroom 11	Fall	2021	2nd Grade	Integrated Science	52	21	84	32.00	-32.00	1024
Classroom 13	Fall	2021	Kindergarten	Integrated Science	43.9	15	65	21.10	-21.10	445.21
Classroom 17	Fall	2021	4th Grade	Integrated Science	60	23	89	29.00	-29.00	841
Classroom 21	Fall	2021	Kindergarten	Integrated Science	46.8	15	65.4	18.60	-18.60	345.96
Classroom 25	Fall	2021	9th Grade	Biology	36.77	102	60.81	24.04	-24.04	577.9216
Classroom 27	Fall	2021	Kindergarten	Integrated Science	61.5	15	77.2	15.70	-15.70	246.49
Classroom 28	Fall	2021	4th Grade	Integrated Science	3.92	15	56.94	53.02	-53.02	2811.1204
Classroom 30	Fall	2021	Kindergarten	Integrated Science	61	19	98.9	37.90	-37.90	1436.41
Classroom 31	Fall	2021	Kindergarten	Integrated Science	65	25	85.6	20.60	-20.60	424.36
Classroom 33	Fall	2021	Kindergarten	Integrated Science	59.2	18	93.6	34.40	-34.40	1183.36
Classroom 36	Fall	2021	1st Grade	Integrated Science	50	18	67	17.00	-17.00	289
Classroom 37	Fall	2021	4th Grade	Integrated Science	65	20	94	29.00	-29.00	841
Classroom 39	Fall	2021	4th Grade	Integrated Science	28	18	63	35.00	-35.00	1225
Classroom 40	Fall	2021	Kindergarten	Integrated Science	46	13	80	34.00	-34.00	1156
Classroom 42	Fall	2021	5th Grade	Integrated Science	30	17	86	56.00	-56.00	3136
Classroom 44	Fall	2021	4th Grade	Integrated Science	62	22	90	28.00	-28.00	784
Classroom 45	Fall	2021	3rd Grade	Integrated Science	45	16	82	37.00	-37.00	1369
Classroom 46	Fall	2021	3rd Grade	Integrated Science	29	34	90	61.00	-61.00	3721
Classroom 48	Fall	2021	5th Grade	Integrated Science	50	21	73	23.00	-23.00	529
Classroom 50	Fall	2021	5th Grade	Integrated Science	54.68	22	83.31	28.63	-28.63	819.6769
Classroom 51	Fall	2021	2nd Grade	Integrated Science	32	18	61	29.00	-29.00	841
Classroom 55	Fall	2021	4th Grade	Integrated Science	29	16	82	53.00	-53.00	2809
Classroom 56	Fall	2021	2nd Grade	Integrated Science	78	19	89	11.00	-11.00	121
Classroom 57	Fall	2021	6th Grade	Integrated Science	17.6	22	72.5	54.90	-54.90	3014.01
Classroom 58	Fall	2021	1st Grade	Integrated Science	59.6	20	96.6	37.00	-37.00	1369
Classroom 59	Fall	2021	1st Grade	Integrated Science	66.64	17	100	33.36	-33.36	1112.8896
Classroom 60	Fall	2021	2nd Grade	Integrated Science	88	23	89	1.00	-1.00	1
Classroom 61	Fall	2021	2nd Grade	Integrated Science	45	18	86	41.00	-41.00	1681
Classroom 63	Fall	2021	5th Grade	Integrated Science	62	41	83.6	21.60	-21.60	466.56
Classroom 65	Fall	2021	1st Grade	Integrated Science	38	19	47.5	9.50	-9.50	90.25
Classroom 68	Fall	2021	3rd Grade	Integrated Science	53	24	84	31.00	-31.00	961

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	Fall	2021	1st Grade	Integrated Science	41	21	57	16.00	-16.00	256
Classroom 71	Fall	2021	1st Grade	Integrated Science	35.714	19	71.428	35.71	-35.71	1275.489796
Classroom 73	Fall	2021	Kindergarten	Integrated Science	71	21	90	19.00	-19.00	361
Classroom 78	Fall	2021	Kindergarten	Integrated Science	71	20	88.2	17.20	-17.20	295.84
Classroom 79	Fall	2021	4th Grade	Integrated Science	15	17	73	58.00	-58.00	3364
Classroom 80	Fall	2021	3rd Grade	Integrated Science	56	23	79	23.00	-23.00	529
Classroom 81	Fall	2021	Kindergarten	Integrated Science	95.4	23	84.4	-11.00	11.00	121
Classroom 82	Fall	2021	3rd Grade	Integrated Science	46	47	71	25.00	-25.00	625
Classroom 83	Fall	2021	1st Grade	Integrated Science	41.6	16	84.45	42.85	-42.85	1836.1225
Classroom 85	Fall	2021	5th Grade	Integrated Science	6.6	19	73	66.40	-66.40	4408.96
Classroom 88	Fall	2021	Kindergarten	Integrated Science	46	24	79	33.00	-33.00	1089
Classroom 89	Fall	2021	2nd Grade	Integrated Science	72	13	79	7.00	-7.00	49
Classroom 90	Fall	2021	4th Grade	Integrated Science	66	23	87	21.00	-21.00	441
Classroom 94	Fall	2021	2nd Grade	Integrated Science	77	20	72	-5.00	5.00	25
Classroom 95	Fall	2021	4th Grade	Integrated Science	74	21	80	6.00	-6.00	36
Classroom 96	Fall	2021	2nd Grade	Integrated Science	84	21	87	3.00	-3.00	9
Classroom 97	Fall	2021	4th Grade	Integrated Science	40	20	84	44.00	-44.00	1936
Classroom 98	Fall	2021	2nd Grade	Integrated Science	40	16	83	43.00	-43.00	1849
Classroom 100	Fall	2021	5th Grade	Integrated Science	49	20	76	27.00	-27.00	729
Classroom 101	Fall	2021	3rd Grade	Integrated Science	44	19	61	17.00	-17.00	289
Classroom 102	Fall	2021	1st Grade	Integrated Science	57	20	55	-2.00	2.00	4
Classroom 111	Fall	2021	3rd Grade	Integrated Science	40	21	77	37.00	-37.00	1369
Classroom 112	Fall	2021	5th Grade	Integrated Science	62.9	15	86.6	23.70	-23.70	561.69
Classroom 113	Fall	2021	2nd Grade	Integrated Science	56.2	21	79	22.80	-22.80	519.84
Classroom 114	Fall	2021	4th Grade	Integrated Science	30	16	90	60.00	-60.00	3600
Classroom 115	Fall	2021	4th Grade	Integrated Science	46	23	76	30.00	-30.00	900
Classroom 120	Fall	2021	1st Grade	Integrated Science	66	23	93	27.00	-27.00	729
Classroom 122	Fall	2021	1st Grade	Integrated Science	64	16	77	13.00	-13.00	169
Classroom 123	Fall	2021	2nd Grade	Integrated Science	56	21	83	27.00	-27.00	729
Classroom 125	Fall	2021	12th Grade	Biology	31.5	38	97.5	66.00	-66.00	4356
Classroom 133	Winter	2021	5th Grade	Integrated Science	65	17	92	27.00	-27.00	729
Classroom 141	Winter	2021	10th Grade	Earth Science	29	11	51	22.00	-22.00	484
Classroom 150	Winter	2021	11th Grade	Chemistry	30	43	85	55.00	-55.00	3025
Classroom 151	Winter	2021	5th Grade	Integrated Science	52	19	81	29.00	-29.00	841
Classroom 153	Winter	2021	2nd Grade	Integrated Science	23	18	90	67.00	-67.00	4489

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 156	Winter	2021	9th Grade	Biology	25	100	75	50.00	-50.00	2500
Classroom 157	Winter	2021	4th Grade	Integrated Science	30.5	18	85.5	55.00	-55.00	3025
Classroom 159	Winter	2021	Kindergarten	Integrated Science	5.3	20	100	94.70	-94.70	8968.09
Classroom 160	Winter	2021	2nd Grade	Integrated Science	46	18	92.8	46.80	-46.80	2190.24
Classroom 166	Winter	2021	3rd Grade	Integrated Science	53	19	80	27.00	-27.00	729
Classroom 169	Winter	2021	4th Grade	Integrated Science	48.75	17	92.25	43.50	-43.50	1892.25
Classroom 173	Winter	2021	4th Grade	Integrated Science	43	16	79	36.00	-36.00	1296
Classroom 175	Winter	2021	2nd Grade	Integrated Science	42	16	51	9.00	-9.00	81
Classroom 176	Winter	2020	5th Grade	Integrated Science	66.667	16	95.25	28.58	-28.58	816.987889
Classroom 179	Winter	2021	Kindergarten	Integrated Science	64	13	84	20.00	-20.00	400
Classroom 190	Winter	2021	Kindergarten	Integrated Science	34	18	75	41.00	-41.00	1681
Classroom 194	Winter	2021	3rd Grade	Integrated Science	46	22	83	37.00	-37.00	1369
Classroom 206	Winter	2021	5th Grade	Integrated Science	68.3	20	81	12.70	-12.70	161.29
Classroom 211	Winter	2021	Kindergarten	Integrated Science	50	5	100	50.00	-50.00	2500
Classroom 212	Winter	2021	4th Grade	Integrated Science	54	17	76	22.00	-22.00	484
Classroom 216	Winter	2021	5th Grade	Integrated Science	62.5	8	86.25	23.75	-23.75	564.0625
Classroom 219	Winter	2021	5th Grade	Integrated Science	45	20	56	11.00	-11.00	121
Classroom 220	Winter	2021	5th Grade	Integrated Science	32.16	19	89.67	57.51	-57.51	3307.4001
Classroom 222	Winter	2021	2nd Grade	Integrated Science	50	16	75	25.00	-25.00	625
Classroom 225	Winter	2021	1st Grade	Integrated Science	56	25	93	37.00	-37.00	1369
Classroom 226	Winter	2021	4th Grade	Integrated Science	56	25	92	36.00	-36.00	1296
Classroom 227	Winter	2021	1st Grade	Integrated Science	57.3	19	97.3	40.00	-40.00	1600
Classroom 228	Winter	2021	Kindergarten	Integrated Science	58	18	87	29.00	-29.00	841
Classroom 229	Winter	2021	3rd Grade	Integrated Science	45	17	45	0.00	0.00	0
Classroom 230	Winter	2021	3rd Grade	Integrated Science	72	32	79	7.00	-7.00	49
Classroom 231	Winter	2021	2nd Grade	Integrated Science	57	23	84	27.00	-27.00	729
Classroom 233	Winter	2021	2nd Grade	Integrated Science	35	19	84	49.00	-49.00	2401
Classroom 236	Winter	2021	4th Grade	Integrated Science	39.47	18	94.6	55.13	-55.13	3039.3169
Classroom 239	Winter	2021	5th Grade	Integrated Science	25	22	75	50.00	-50.00	2500
Classroom 241	Winter	2021	2nd Grade	Integrated Science	50	22	93	43.00	-43.00	1849
Classroom 242	Winter	2021	5th Grade	Integrated Science	54.2	23	84.6	30.40	-30.40	924.16

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 K-12 Students:			Average % Improvement:			-3116.09	129066.96
101			2177			30.85			"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
									L =Top Value ($\sum d/N$)	-30.85
									M =Middle value	32928.36
									O =Bottom Value	10100.00
									P =Square root of M/O	1.81
									T = (L/P)	-17.09
									$\alpha = 0.05$	Critical T = 1.645
										Significant
									T/Square Root of N = Effect	-1.700

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

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 4	Fall	2021	10th Grade	Social Studies	17	56	81.7	64.70	-64.70	4186.09
Classroom 5	Fall	2021	9th Grade	Social Studies	35.1	33	80.9	45.80	-45.80	2097.64
Classroom 7	Fall	2021	5th Grade	Social Studies	31	22	90	59.00	-59.00	3481
Classroom 8	Fall	2021	1st Grade	Social Studies	35	15	74	39.00	-39.00	1521
Classroom 9	Fall	2021	4th Grade	Social Studies	17	24	90	73.00	-73.00	5329
Classroom 10	Fall	2021	5th Grade	Social Studies	62	19	84	22.00	-22.00	484
Classroom 12	Fall	2021	1st Grade	Social Studies	43	22	93	50.00	-50.00	2500
Classroom 14	Fall	2021	11th Grade	Social Studies	43	45	73	30.00	-30.00	900
Classroom 16	Fall	2021	4th Grade	Social Studies	25	16	75	50.00	-50.00	2500
Classroom 19	Fall	2021	1st Grade	Social Studies	56	21	96	40.00	-40.00	1600
Classroom 20	Fall	2021	11th Grade	Social Studies	42.35	14	64	21.65	-21.65	468.7225
Classroom 22	Fall	2021	2nd Grade	Social Studies	65	19	70	5.00	-5.00	25
Classroom 23	Fall	2021	3rd Grade	Social Studies	62	20	50.65	-11.35	11.35	128.8225
Classroom 24	Fall	2021	2nd Grade	Social Studies	70	22	50.65	-19.35	19.35	374.4225
Classroom 29	Fall	2021	5th Grade	Social Studies	53	13	66	13.00	-13.00	169
Classroom 32	Fall	2021	3rd Grade	Social Studies	35	18	81	46.00	-46.00	2116
Classroom 34	Fall	2021	5th Grade	Social Studies	36	20	77	41.00	-41.00	1681
Classroom 35	Fall	2021	1st Grade	Social Studies	48.61	17	60.83	12.22	-12.22	149.3284
Classroom 38	Fall	2021	2nd Grade	Social Studies	29.86	15	92.06	62.20	-62.20	3868.84
Classroom 41	Fall	2021	4th Grade	Social Studies	17.65	22	50	32.35	-32.35	1046.5225
Classroom 49	Fall	2021	4th Grade	Social Studies	64	22	90	26.00	-26.00	676
Classroom 52	Fall	2021	5th Grade	Social Studies	25	24	61	36.00	-36.00	1296
Classroom 54	Fall	2021	11th Grade	Social Studies	36	72	76	40.00	-40.00	1600
Classroom 64	Fall	2021	6th Grade	Social Studies	46	21	78	32.00	-32.00	1024
Classroom 66	Fall	2021	5th Grade	Social Studies	12.5	20	84.67	72.17	-72.17	5208.5089
Classroom 67	Fall	2021	4th Grade	Social Studies	40	20	83	43.00	-43.00	1849
Classroom 69	Fall	2021	5th Grade	Social Studies	40	22	85	45.00	-45.00	2025
Classroom 74	Fall	2021	4th Grade	Social Studies	39	25	85	46.00	-46.00	2116
Classroom 76	Fall	2021	5th Grade	Social Studies	48	25	66	18.00	-18.00	324
Classroom 77	Fall	2021	2nd Grade	Social Studies	15	12	68	53.00	-53.00	2809
Classroom 84	Fall	2021	5th Grade	Social Studies	37	23	87	50.00	-50.00	2500
Classroom 86	Fall	2021	Kindergarten	Social Studies	22.8	20	66.66	43.86	-43.86	1923.6996
Classroom 87	Fall	2021	10th Grade	Social Studies	30	51	82	52.00	-52.00	2704
Classroom 91	Fall	2021	1st Grade	Social Studies	60	23	88	28.00	-28.00	784
Classroom 92	Fall	2021	2nd Grade	Social Studies	89	20	72.5	-16.50	16.50	272.25

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 93	Fall	2021	2nd Grade	Social Studies	42	22	91	49.00	-49.00	2401
Classroom 103	Fall	2021	7th Grade	Social Studies	45.4	67	71.4	26.00	-26.00	676
Classroom 104	Fall	2021	7th Grade	Social Studies	63.333	26	100	36.67	-36.67	1344.468889
Classroom 106	Fall	2021	10th Grade	Social Studies	36.5	51	75	38.50	-38.50	1482.25
Classroom 107	Fall	2021	7th Grade	Social Studies	36.222	101	79.778	43.56	-43.56	1897.125136
Classroom 116	Fall	2021	3rd Grade	Social Studies	30	19	50	20.00	-20.00	400
Classroom 118	Fall	2021	6th Grade	Social Studies	2.467	94	70.53	68.06	-68.06	4632.571969
Classroom 121	Fall	2021	2nd Grade	Social Studies	61	16	81	20.00	-20.00	400
Classroom 124	Fall	2021	4th Grade	Social Studies	35	23	69	34.00	-34.00	1156
Classroom 127	Winter	2021	3rd Grade	Social Studies	50	14	91	41.00	-41.00	1681
Classroom 129	Winter	2021	Kindergarten	Social Studies	53	16	75	22.00	-22.00	484
Classroom 134	Winter	2021	5th Grade	Social Studies	11	15	85	74.00	-74.00	5476
Classroom 136	Winter	2021	Kindergarten	Social Studies	30	18	70	40.00	-40.00	1600
Classroom 145	Winter	2021	3rd Grade	Social Studies	8.6	26	64.4	55.80	-55.80	3113.64
Classroom 146	Winter	2021	4th Grade	Social Studies	23	21	61	38.00	-38.00	1444
Classroom 148	Winter	2021	8th Grade	Social Studies	31.3	15	96	64.70	-64.70	4186.09
Classroom 149	Winter	2021	5th Grade	Social Studies	28	17	50	22.00	-22.00	484
Classroom 155	Winter	2021	4th Grade	Social Studies	60.1	25	78	17.90	-17.90	320.41
Classroom 158	Winter	2021	Kindergarten	Social Studies	88	15	95	7.00	-7.00	49
Classroom 164	Winter	2021	5th Grade	Social Studies	21.6	15	59.4	37.80	-37.80	1428.84
Classroom 165	Winter	2021	7th Grade	Social Studies	41.06	50	25	-16.06	16.06	257.9236
Classroom 170	Winter	2021	1st Grade	Social Studies	30	21	80	50.00	-50.00	2500
Classroom 171	Winter	2021	5th Grade	Social Studies	26	20	67	41.00	-41.00	1681
Classroom 172	Winter	2021	10th Grade	Social Studies	52.467	116	80.6	28.13	-28.13	791.465689
Classroom 174	Winter	2021	11th Grade	Social Studies	47	56	79	32.00	-32.00	1024
Classroom 181	Winter	2021	5th Grade	Social Studies	82	12	88.9	6.90	-6.90	47.61
Classroom 182	Winter	2021	9th Grade	Social Studies	45	19	78	33.00	-33.00	1089
Classroom 185	Winter	2021	12th Grade	Social Studies	75	22	95	20.00	-20.00	400
Classroom 186	Winter	2021	5th Grade	Social Studies	82	12	88.9	6.90	-6.90	47.61
Classroom 187	Winter	2021	7th Grade	Social Studies	61	43	83	22.00	-22.00	484
Classroom 193	Winter	2021	10th Grade	Social Studies	53	49	76.8	23.80	-23.80	566.44
Classroom 195	Winter	2021	2nd Grade	Social Studies	45	23	91	46.00	-46.00	2116
Classroom 196	Winter	2021	3rd Grade	Social Studies	1.9	24	92	90.10	-90.10	8118.01
Classroom 199	Winter	2021	10th Grade	Social Studies	31	46	72	41.00	-41.00	1681
Classroom 202	Winter	2021	10th Grade	Social Studies	56	59	84	28.00	-28.00	784

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 203	Winter	2021	5th Grade	Social Studies	30	16	70	40.00	-40.00	1600
Classroom 204	Winter	2021	5th Grade	Social Studies	41	21	77	36.00	-36.00	1296
Classroom 205	Winter	2021	5th Grade	Social Studies	15	19	82	67.00	-67.00	4489
Classroom 208	Winter	2021	1st Grade	Social Studies	64	21	74	10.00	-10.00	100
Classroom 209	Winter	2021	3rd Grade	Social Studies	26.7	23	78	51.30	-51.30	2631.69
Classroom 213	Winter	2021	1st Grade	Social Studies	58	15	92	34.00	-34.00	1156
Classroom 214	Winter	2021	3rd Grade	Social Studies	50	17	81	31.00	-31.00	961
Classroom 215	Winter	2021	Kindergarten	Social Studies	46	18	87	41.00	-41.00	1681
Classroom 217	Winter	2021	Kindergarten	Social Studies	72	15	92	20.00	-20.00	400
Classroom 218	Winter	2021	5th Grade	Social Studies	24.2	21	70.4	46.20	-46.20	2134.44
Classroom 221	Winter	2021	2nd Grade	Social Studies	55	11	71.4	16.40	-16.40	268.96
Classroom 223	Winter	2021	2nd Grade	Social Studies	54.54	11	71	16.46	-16.46	270.9316
Classroom 224	Winter	2021	1st Grade	Social Studies	62	16	96	34.00	-34.00	1156
Classroom 232	Winter	2021	5th Grade	Social Studies	34.2	14	78.2	44.00	-44.00	1936
Classroom 234	Winter	2021	3rd Grade	Social Studies	18.5	18	90	71.50	-71.50	5112.25
Classroom 237	Winter	2021	Kindergarten	Social Studies	50	13	93	43.00	-43.00	1849
Classroom 238	Winter	2021	3rd Grade	Social Studies	51	19	84	33.00	-33.00	1089
Classroom 240	Winter	2021	6th Grade	Social Studies	43	26	72	29.00	-29.00	841
Classroom 243	Winter	2021	6th Grade	Social Studies	47	12	87	40.00	-40.00	1600

Number of Tests = N	Number of K-12 Students:	Average % Improvement:	-3157.37	148554.57
89	2346	35.48	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
			L =Top Value (Σd/N)	-35.48
			M =Middle value	36543.57
			O =Bottom Value	7832.00
			P =Square root of M/O	2.16
			T = (L/P)	-16.42
			α = 0.05	Critical T = 1.645
				Significant
			T/Square Root of N = Effect	-1.741

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