DESCRIPTIVE STATISTICS - SCALE SCORES
SDAA SPRING 2003
READING
ALL STUDENTS
INSTRUCTIONAL LEVEL K

N	4516		
Mean	574.94	Median	577.00
Std deviation	38.91	Variance	1514.05
Skewness	0.2507	Kurtosis	0.3847
Mode	589.00	Std Error Mean	0.5790
Range	279.00	Interquartile Range	56.00

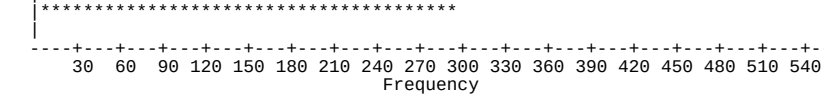
Quantile	Estimate
100% Max	660
99%	660
95%	660
90%	628
75% Q3	604
50% Median	577
25% Q1	548
10%	531
5%	522
1%	495
0% Min	381

```
                    Histogram                          #  Boxplot
670+**************                                   295     |
   .                                                        |
   .******************                               392     |
   .************************                         496  +-----+
   .***************************                      553  |     |
   .************************************************ 1022  *--+--*
   .*************************************            817  +-----+
530+**********************************               724     |
   .*******                                          153     |
   .***                                               50     |
   .*                                                  6     |
   .*                                                  2     0
   .
   .*                                                  2     0
390+*                                                  4     0
    ----+----+----+----+----+----+----+----+----+--
    * may represent up to 22 counts
```

```
                        Normal Probability Plot
670+                                                  ***********
   |                                                    +++++
   |                                          ******+
   |                                     *****+
   |                                +****
   |                           *******
   |                      ******
530+          **********
   |    ******++
   |****++
   |*
   |*
   |
   |*
390+*
     +----+----+----+----+----+----+----+----+----+----+
         -2        -1         0        +1        +2
```

FREQUENCY DISTRIBUTION - SCALE SCORES
SDAA SPRING 2003
READING
ALL STUDENTS
INSTRUCTIONAL LEVEL K

SCALE_SCORE	Freq	Cum. Freq	Percent	Cum. Percent
381	4	4	0.09	0.09
414	2	6	0.04	0.13
458	2	8	0.04	0.18
472	6	14	0.13	0.31
484	13	27	0.29	0.60
495	37	64	0.82	1.42
505	45	109	1.00	2.41
514	108	217	2.39	4.81
522	182	399	4.03	8.84
531	241	640	5.34	14.17
539	301	941	6.67	20.84
548	352	1293	7.79	28.63
557	465	1758	10.30	38.93
566	499	2257	11.05	49.98
577	523	2780	11.58	61.56
589	553	3333	12.25	73.80
604	496	3829	10.98	84.79
628	392	4221	8.68	93.47
660	295	4516	6.53	100.00



DESCRIPTIVE STATISTICS - SCALE SCORES
SDAA SPRING 2003
MATHEMATICS
ALL STUDENTS
INSTRUCTIONAL LEVEL K

N	3436		
Mean	499.59	Median	499.00
Std deviation	43.88	Variance	1925.43
Skewness	0.2252	Kurtosis	-0.2121
Mode	520.00	Std Error Mean	0.7486
Range	253.00	Interquartile Range	51.00

Quantile	Estimate
100% Max	589
99%	589
95%	589
90%	558
75% Q3	520
50% Median	499
25% Q1	469
10%	448
5%	433
1%	415
0% Min	336

```
                    Histogram                        #   Boxplot                        Normal Probability Plot
585+**********************                         259       |          585+                                          ************
   .                                                          |                                                           ++
   .                                                          |                                                        +++
   .************************                         281       |                                                     *****
   .                                                          |                                                     ++
535+****************************                     316       |          535+                                   ****
   .*****************************                    330   +-----+                                          ****
   .                                                      |     |                                        ++
   .*************************                         292   |     |                                      +***
   .**********************************************   538   *--+--*                                      *****
485+**********************                         259   |     |       485+                           ***
   .*****************                               199   |     |                                   ***
   .******************************                   354   +-----+                                 ****
   .************                                     135       |                                  ***
   .*********************                            250       |                                *****
435+********                                         91       |          435+                 ****+
   .*******                                           81       |                            *****++
   .**                                                24       |                          *** ++
   .**                                                16       |                          ** ++
   .*                                                  4       0                          *++
385+                                                                     385++
   .                                                                                       |
   .*                                                  2       0                          *
   .                                                                                       |
   .                                                                                       |
335+*                                                  5       0          335+*
    ----+----+----+----+----+----+----+----+----+                                  +----+----+----+----+----+----+----+----+----+----+
    * may represent up to 12 counts                                                   -2        -1         0        +1        +2
```

FREQUENCY DISTRIBUTION - SCALE SCORES
SDAA SPRING 2003
MATHEMATICS
ALL STUDENTS
INSTRUCTIONAL LEVEL K

SCALE_SCORE	Freq	Cum. Freq	Percent	Cum. Percent
336	5	5	0.15	0.15
366	2	7	0.06	0.20
390	4	11	0.12	0.32
404	16	27	0.47	0.79
415	24	51	0.70	1.48
425	81	132	2.36	3.84
433	91	223	2.65	6.49
441	119	342	3.46	9.95
448	131	473	3.81	13.77
455	135	608	3.93	17.69
462	163	771	4.74	22.44
469	191	962	5.56	28.00
476	199	1161	5.79	33.79
483	259	1420	7.54	41.33
491	254	1674	7.39	48.72
499	284	1958	8.27	56.98
509	292	2250	8.50	65.48
520	330	2580	9.60	75.09
535	316	2896	9.20	84.28
558	281	3177	8.18	92.46
589	259	3436	7.54	100.00

DESCRIPTIVE STATISTICS - SCALE SCORES
SDAA SPRING 2003
READING
ALL STUDENTS
INSTRUCTIONAL LEVEL 1

N	14846		
Mean	596.77	Median	591.00
Std deviation	40.02	Variance	1601.85
Skewness	0.1141	Kurtosis	-0.0597
Mode	620.00	Std Error Mean	0.3285
Range	272.00	Interquartile Range	49.00

Quantile	Estimate
100% Max	676
99%	676
95%	676
90%	644
75% Q3	620
50% Median	591
25% Q1	571
10%	545
5%	537
1%	513
0% Min	404

```
                    Histogram                          #  Boxplot
670+*****************                              1167     |
   .***************************                     1879     |
   .***************************                     1906  +-----+
   .**************************                      1865  |     |
   .************************************************ 3427  *--+--*
   .**********************************              2342  +-----+
   .******************                              1242     |
   .***********                                      781     |
   .***                                              163     |
   .*                                                 56     0
   .*                                                  5     0
   .*                                                  3     0
   .
410+*                                                 10     *
    ----+----+----+----+----+----+----+----+----+---
    * may represent up to 72 counts
```

```
                    Normal Probability Plot
670+                                                  ************
   |                                          *******+
   |                                     *****++
   |                                ****+
   |                           *******
   |                      ******
   |                 *******
   |*****+
   |*
   |*
   |*
   |
410+*
     +----+----+----+----+----+----+----+----+----+----+----+
         -2        -1         0        +1        +2
```

FREQUENCY DISTRIBUTION - SCALE SCORES
SDAA SPRING 2003
READING
ALL STUDENTS
INSTRUCTIONAL LEVEL 1

SCALE_SCORE		Freq	Cum. Freq	Percent	Cum. Percent
404		10	10	0.07	0.07
459		3	13	0.02	0.09
474		5	18	0.03	0.12
486	*	19	37	0.13	0.25
496	*	37	74	0.25	0.50
505	**	59	133	0.40	0.90
513	****	104	237	0.70	1.60
522	*******	180	417	1.21	2.81
529	**********	254	671	1.71	4.52
537	**********	347	1018	2.34	6.86
545	**********	542	1560	3.65	10.51
553	**********	700	2260	4.72	15.22
562	**********	1042	3302	7.02	22.24
571	**********	1300	4602	8.76	31.00
581	**********	1641	6243	11.05	42.05
591	**********	1786	8029	12.03	54.08
604	**********	1865	9894	12.56	66.64
620	**********	1906	11800	12.84	79.48
644	**********	1879	13679	12.66	92.14
676	**********	1167	14846	7.86	100.00

--------+-------+-------+-------+-------+-------+-------+-------+-------+----
200 400 600 800 1000 1200 1400 1600 1800
Frequency

DESCRIPTIVE STATISTICS - SCALE SCORES
SDAA SPRING 2003
MATHEMATICS
ALL STUDENTS
INSTRUCTIONAL LEVEL 1

N	9888		
Mean	545.99	Median	540.00
Std deviation	39.70	Variance	1575.71
Skewness	0.1324	Kurtosis	-0.0778
Mode	568.00	Std Error Mean	0.3992
Range	278.00	Interquartile Range	47.00

Quantile	Estimate
100% Max	623
99%	623
95%	623
90%	592
75% Q3	568
50% Median	540
25% Q1	521
10%	496
5%	488
1%	464
0% Min	345

```
                    Histogram                          #  Boxplot                       Normal Probability Plot
630+******************                              859     |          630+                                        ************
   .                                                        |                                                      +++++
   .*************************                        1210     |                                                 *******
   .****************************                     1317  +-----+                                           *****
   .*************************************************2336  *--+--*                                       *******
   .****************************************       1869  +-----+                                   ******
   .************************                       1209     |                                 ******
490+*****************                              833     |          490+       ********
   .****                                            175     |                 ******++
   .**                                               55     0                 **++
   .*                                                17     0                 *
   .*                                                 1     0                 *
   .                                                                          |
   .*                                                 2     *                 *
350+*                                                 5     *          350+*
    ----+----+----+----+----+----+----+----+----+---                           +----+----+----+----+----+----+----+----+----+----+
    * may represent up to 49 counts                                                -2        -1         0        +1        +2
```

FREQUENCY DISTRIBUTION - SCALE SCORES
SDAA SPRING 2003
MATHEMATICS
ALL STUDENTS
INSTRUCTIONAL LEVEL 1

SCALE_SCORE	Freq	Cum. Freq	Percent	Cum. Percent
345	5	5	0.05	0.05
378	2	7	0.02	0.07
404	1	8	0.01	0.08
421	6	14	0.06	0.14
434	11	25	0.11	0.25
445	14	39	0.14	0.39
455	41	80	0.41	0.81
464	71	151	0.72	1.53
472	104	255	1.05	2.58
480	182	437	1.84	4.42
488	267	704	2.70	7.12
496	384	1088	3.88	11.00
504	529	1617	5.35	16.35
512	680	2297	6.88	23.23
521	856	3153	8.66	31.89
530	1013	4166	10.24	42.13
540	1093	5259	11.05	53.19
552	1243	6502	12.57	65.76
568	1317	7819	13.32	79.08
592	1210	9029	12.24	91.31
623	859	9888	8.69	100.00

DESCRIPTIVE STATISTICS - SCALE SCORES
SDAA SPRING 2003
READING
ALL STUDENTS
INSTRUCTIONAL LEVEL 2

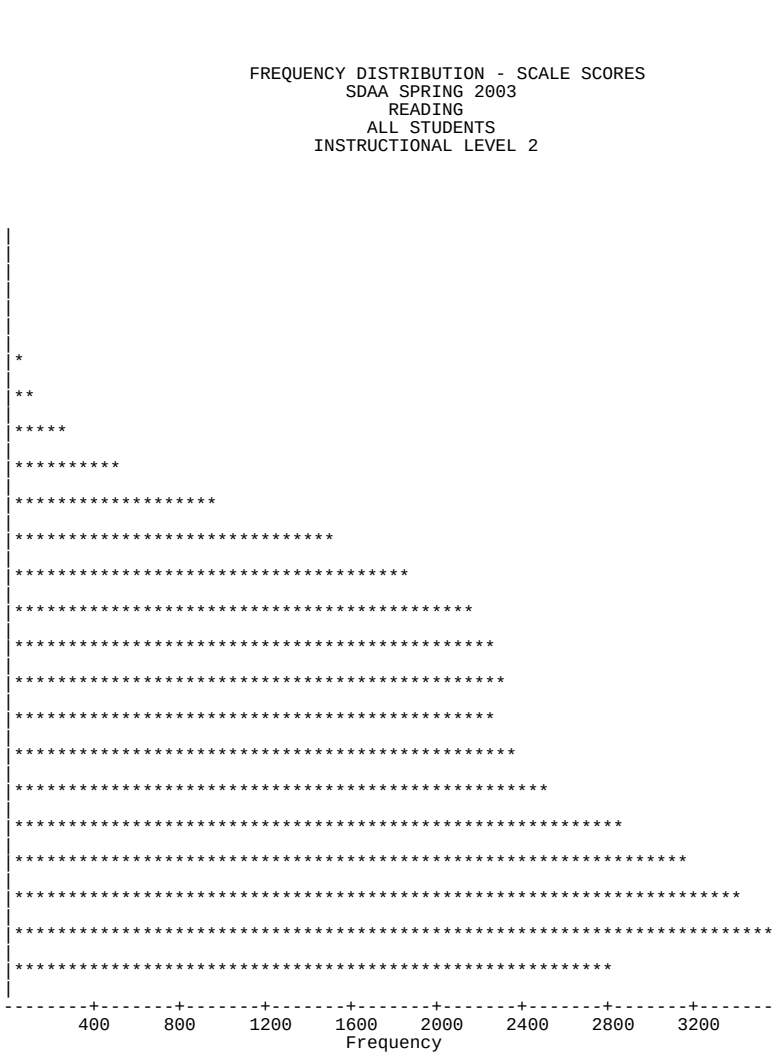
N	34603		
Mean	613.67	Median	610.00
Std deviation	43.15	Variance	1861.89
Skewness	0.3164	Kurtosis	-0.4360
Mode	669.00	Std Error Mean	0.2320
Range	281.00	Interquartile Range	66.00

Quantile	Estimate
100% Max	700
99%	700
95%	700
90%	669
75% Q3	645
50% Median	610
25% Q1	579
10%	565
5%	549
1%	529
0% Min	419

```
                    Histogram                          #  Boxplot                       Normal Probability Plot
710+**********************                          2783     |          710+                                          ************
   .                                                          |            |                                             +++++
   .****************************                       3536     |            |                                   ******+
650+**************************                         3377  +-----+       650+                              ****+
   .************************************************   6000  |     |          |                          ******
   .****************************************           4847  *--+--*          |                     +****
590+***********************************                4557  |     |       590+                +*****
   .************************************************** 6238  +-----+          |               ********
   .***********************                            2907     |            |  ***********
530+**                                                 230     |          530+*** ++++
   .*                                                  105     |            |*+++
   .*                                                    5     |            |*
470+                                                                        470+
   .*                                                    2     0            |*
   .                                                                        |
410+*                                                   16     0          410+*
    ----+----+----+----+----+----+----+----+----+---                           +----+----+----+----+----+----+----+----+----+----+
    * may represent up to 130 counts                                              -2        -1         0        +1        +2
```

FREQUENCY DISTRIBUTION - SCALE SCORES
SDAA SPRING 2003
READING
ALL STUDENTS
INSTRUCTIONAL LEVEL 2

SCALE_SCORE	Freq	Cum. Freq	Percent	Cum. Percent
419	16	16	0.05	0.05
453	2	18	0.01	0.05
483	5	23	0.01	0.07
503	27	50	0.08	0.14
517	78	128	0.23	0.37
529	230	358	0.66	1.03
540	488	846	1.41	2.44
549	944	1790	2.73	5.17
557	1475	3265	4.26	9.44
565	1874	5139	5.42	14.85
572	2136	7275	6.17	21.02
579	2228	9503	6.44	27.46
587	2310	11813	6.68	34.14
594	2247	14060	6.49	40.63
602	2356	16416	6.81	47.44
610	2491	18907	7.20	54.64
620	2829	21736	8.18	62.82
631	3171	24907	9.16	71.98
645	3377	28284	9.76	81.74
669	3536	31820	10.22	91.96
700	2783	34603	8.04	100.00



DESCRIPTIVE STATISTICS - SCALE SCORES
SDAA SPRING 2003
MATHEMATICS
ALL STUDENTS
INSTRUCTIONAL LEVEL 2

N	25615		
Mean	570.76	Median	575.00
Std deviation	41.69	Variance	1737.99
Skewness	0.0035	Kurtosis	-0.0483
Mode	592.00	Std Error Mean	0.2605
Range	312.00	Interquartile Range	48.00

Quantile	Estimate
100% Max	649
99%	649
95%	649
90%	617
75% Q3	592
50% Median	575
25% Q1	544
10%	521
5%	507
1%	477
0% Min	337

```
                    Histogram                          #  Boxplot                       Normal Probability Plot
650+******************                              2263     |          650+                                        ************
   .                                                         |                                                   +++++
   .***************************                       3383     |                                             *******
   .******************************                    3786  +-----+          |                                ******
   .**************************************************6209  *--+--*          |                        *******
   .*********************************                4079  +-----+          |                  *****
   .***************************                       3442     |             |                *******
   .*************                                     1658     |             |        *******
490+****                                               502     |          490+  *****++
   .**                                                 250     0            |***+
   .*                                                   28     0            |*
   .*                                                    4     0            |*
   .                                                                         |
   .                                                                         |
   .                                                                         |
   .                                                                         |
330+*                                                   11     *          330+*
    ----+----+----+----+----+----+----+----+----+---                            +----+----+----+----+----+----+----+----+----+----+
    * may represent up to 130 counts                                            -2        -1         0        +1        +2
```

FREQUENCY DISTRIBUTION - SCALE SCORES
SDAA SPRING 2003
MATHEMATICS
ALL STUDENTS
INSTRUCTIONAL LEVEL 2

SCALE_SCORE		Freq	Cum. Freq	Percent	Cum. Percent
337		11	11	0.04	0.04
428		4	15	0.02	0.06
440		9	24	0.04	0.09
451		19	43	0.07	0.17
460	*	39	82	0.15	0.32
469	**	76	158	0.30	0.62
477	***	135	293	0.53	1.14
485	****	216	509	0.84	1.99
492	******	286	795	1.12	3.10
500	********	410	1205	1.60	4.70
507	**********	534	1739	2.08	6.79
514	**********	714	2453	2.79	9.58
521	**********	907	3360	3.54	13.12
528	**********	1151	4511	4.49	17.61
536	**********	1384	5895	5.40	23.01
544	**********	1843	7738	7.20	30.21
553	**********	2236	9974	8.73	38.94
563	**********	2735	12709	10.68	49.62
575	**********	3474	16183	13.56	63.18
592	**********	3786	19969	14.78	77.96
617	**********	3383	23352	13.21	91.17
649	**********	2263	25615	8.83	100.00

```
--------+-------+-------+-------+-------+-------+-------+-------+-------+----
       400     800     1200    1600    2000    2400    2800    3200    3600
                                Frequency
```

DESCRIPTIVE STATISTICS - SCALE SCORES
SDAA SPRING 2003
READING
ALL STUDENTS
INSTRUCTIONAL LEVEL 3

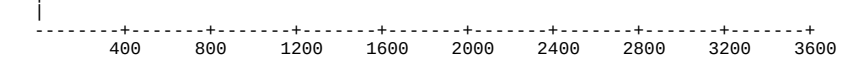
N	38767		
Mean	623.44	Median	624.00
Std deviation	37.56	Variance	1410.95
Skewness	0.2856	Kurtosis	0.3142
Mode	641.00	Std Error Mean	0.1908
Range	271.00	Interquartile Range	43.00

Quantile	Estimate
100% Max	721
99%	721
95%	690
90%	667
75% Q3	641
50% Median	624
25% Q1	598
10%	575
5%	569
1%	548
0% Min	450

```
                    Histogram                          #  Boxplot                       Normal Probability Plot
730+******                                          1109     0         730+                                                  *******
   .                                                                      |                                                    +++++
   .***********                                     2115     |         |                                            ******+
   .***************                                 2903     |         |                                     *****+
   .************************************            7012  +-----+        |                                *******
   .**************************************************  9558  *--+--*        |                         *******
   .*************************                       4878  |     |        |                     *****+
590+************************************            7105  +-----+      590+             ********
   .***************                                 2998     |         |        *******+
   .*****                                           949     |         |*******++
   .*                                               103     0         |*++
   .*                                                 5     0         |*
   .*                                                 4     0         |*
   .                                                                  |
450+*                                                 28     *         450+*
    ----+----+----+----+----+----+----+----+----+---                      +----+----+----+----+----+----+----+----+----+----+
    * may represent up to 200 counts                                        -2        -1         0        +1        +2
```

FREQUENCY DISTRIBUTION - SCALE SCORES
SDAA SPRING 2003
READING
ALL STUDENTS
INSTRUCTIONAL LEVEL 3

SCALE_SCORE	Freq	Cum. Freq	Percent	Cum. Percent
450	28	28	0.07	0.07
481	4	32	0.01	0.08
505	5	37	0.01	0.10
522	26	63	0.07	0.16
531	77	140	0.20	0.36
540	144	284	0.37	0.73
548	296	580	0.76	1.50
556	509	1089	1.31	2.81
562	736	1825	1.90	4.71
569	1013	2838	2.61	7.32
575	1249	4087	3.22	10.54
581	1520	5607	3.92	14.46
587	1672	7279	4.31	18.78
592	1864	9143	4.81	23.58
598	2049	11192	5.29	28.87
604	2261	13453	5.83	34.70
610	2617	16070	6.75	41.45
621	2970	19040	7.66	49.11
624	3123	22163	8.06	57.17
632	3465	25628	8.94	66.11
641	3578	29206	9.23	75.34
652	3434	32640	8.86	84.20
667	2903	35543	7.49	91.68
690	2115	37658	5.46	97.14
721	1109	38767	2.86	100.00



DESCRIPTIVE STATISTICS - SCALE SCORES
SDAA SPRING 2003
MATHEMATICS
ALL STUDENTS
INSTRUCTIONAL LEVEL 3

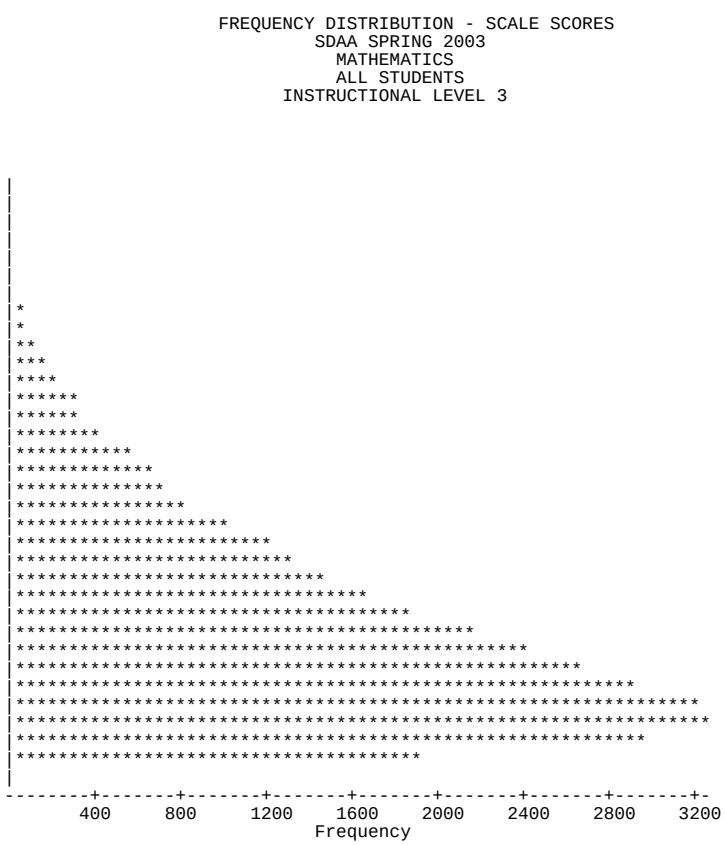
N	34090		
Mean	574.83	Median	569.00
Std deviation	39.90	Variance	1592.10
Skewness	0.2324	Kurtosis	-0.0403
Mode	609.00	Std Error Mean	0.2161
Range	286.00	Interquartile Range	49.00

Quantile	Estimate
100% Max	662
99%	662
95%	662
90%	632
75% Q3	595
50% Median	569
25% Q1	546
10%	528
5%	514
1%	496
0% Min	376

```
                    Histogram                          #  Boxplot                       Normal Probability Plot
670+*************                                    1894     |          670+                                          **********
   .                                                          |            |                                           +++++
   .********************                               2941     |            |                                     ******
610+**********************                             3274     |          610+                                 *****
   .******************************************        6095  +-----+          |                            ******
   .**************************************************  7245  *--+--*          |                     ******
550+*****************************************          6251  +-----+       550+                *******
   .*************************                          3713     |            |            ******
   .***************                                    2163     |            |   *********
490+***                                                 447     |          490+****+++
   .*                                                    45     0            |*+
   .*                                                     4     0            |*
430+                                                                       430+
   .*                                                     1     0            |*
   .                                                                        |
370+*                                                    17     *          370+*
    ----+----+----+----+----+----+----+----+----+---                            +----+----+----+----+----+----+----+----+----+----+
    * may represent up to 151 counts                                              -2        -1         0        +1        +2
```

FREQUENCY DISTRIBUTION - SCALE SCORES
SDAA SPRING 2003
MATHEMATICS
ALL STUDENTS
INSTRUCTIONAL LEVEL 3

SCALE_SCORE	Freq	Cum. Freq	Percent	Cum. Percent
376	17	17	0.05	0.05
407	1	18	0.00	0.05
443	1	19	0.00	0.06
453	3	22	0.01	0.06
462	5	27	0.01	0.08
469	10	37	0.03	0.11
475	30	67	0.09	0.20
481	46	113	0.13	0.33
486	97	210	0.28	0.62
492	125	335	0.37	0.98
496	179	514	0.53	1.51
501	277	791	0.81	2.32
506	307	1098	0.90	3.22
510	418	1516	1.23	4.45
514	526	2042	1.54	5.99
519	635	2677	1.86	7.85
523	711	3388	2.09	9.94
528	820	4208	2.41	12.34
532	977	5185	2.87	15.21
537	1205	6390	3.53	18.74
541	1282	7672	3.76	22.51
546	1448	9120	4.25	26.75
551	1654	10774	4.85	31.60
557	1867	12641	5.48	37.08
563	2161	14802	6.34	43.42
569	2410	17212	7.07	50.49
576	2674	19886	7.84	58.33
585	2880	22766	8.45	66.78
595	3215	25981	9.43	76.21
609	3274	29255	9.60	85.82
632	2941	32196	8.63	94.44
662	1894	34090	5.56	100.00



DESCRIPTIVE STATISTICS - SCALE SCORES
SDAA SPRING 2003
READING
ALL STUDENTS
INSTRUCTIONAL LEVEL 4

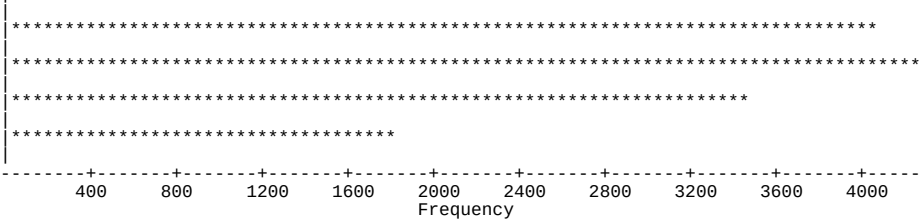
N	34321		
Mean	630.21	Median	633.00
Std deviation	37.45	Variance	1402.65
Skewness	0.0563	Kurtosis	0.3918
Mode	658.00	Std Error Mean	0.2022
Range	261.00	Interquartile Range	55.00

Quantile	Estimate
100% Max	712
99%	712
95%	712
90%	681
75% Q3	658
50% Median	633
25% Q1	603
10%	586
5%	575
1%	551
0% Min	451

```
                    Histogram                          #  Boxplot                       Normal Probability Plot
710+***********                                     1804     |          710+                                     **********
   .********************                            3446     |            |                                   *******++
   .                                                        |            |                                 ++++++
   .**************************************************  8342  +-----+     |                          ********
   .*****************************************        6923  *--+--*     |                       ******
   .******************************************       6793  +-----+     |                 *******
   .***************************                     4660     |          |            ********
   .*********                                       1564     |          |      ******+
   .****                                             625     |          |******+
   .*                                                114     |          |*
   .                                                         |          |
   .*                                                  1     0          |*
   .                                                         |          |
450+*                                                 49     0     450+*
    ----+----+----+----+----+----+----+----+----+---                       +----+----+----+----+----+----+----+----+----+----+
    * may represent up to 174 counts                                          -2        -1         0        +1        +2
```

FREQUENCY DISTRIBUTION - SCALE SCORES
SDAA SPRING 2003
READING
ALL STUDENTS
INSTRUCTIONAL LEVEL 4

SCALE_SCORE	Freq	Cum. Freq	Percent	Cum. Percent
451	49	49	0.14	0.14
481	1	50	0.00	0.15
522	9	59	0.03	0.17
528	35	94	0.10	0.27
537	70	164	0.20	0.48
544	147	311	0.43	0.91
551	204	515	0.59	1.50
557	274	789	0.80	2.30
563	389	1178	1.13	3.43
569	529	1707	1.54	4.97
575	646	2353	1.88	6.86
580	879	3232	2.56	9.42
586	1041	4273	3.03	12.45
591	1220	5493	3.55	16.00
597	1520	7013	4.43	20.43
603	1863	8876	5.43	25.86
609	2237	11113	6.52	32.38
616	2693	13806	7.85	40.23
624	3202	17008	9.33	49.56
633	3721	20729	10.84	60.40
644	4071	24800	11.86	72.26
658	4271	29071	12.44	84.70
681	3446	32517	10.04	94.74
712	1804	34321	5.26	100.00



DESCRIPTIVE STATISTICS - SCALE SCORES
SDAA SPRING 2003
MATHEMATICS
ALL STUDENTS
INSTRUCTIONAL LEVEL 4

N	37652		
Mean	605.64	Median	604.00
Std deviation	33.52	Variance	1123.26
Skewness	0.1530	Kurtosis	1.9794
Mode	614.00	Std Error Mean	0.1727
Range	305.00	Interquartile Range	43.00

Quantile	Estimate
100% Max	723
99%	693
95%	657
90%	646
75% Q3	625
50% Median	604
25% Q1	582
10%	566
5%	557
1%	533
0% Min	418

```
                    Histogram                          #  Boxplot
730+**                                               244     0
   .
   .***                                              581     0
   .*****                                            959     |
   .***************                                 2979     |
   .******************************                  6060  +-----+
   .*********************************************    9061  *--+--*
   .**************************************************9778  +-----+
570+*****************************                    5718     |
   .*********                                        1650     |
   .***                                               504     |
   .*                                                  43     0
   .*                                                  10     0
   .*                                                   2     0
   .*                                                   1     *
   .
410+*                                                  62     *
    ----+----+----+----+----+----+----+----+----+---
    * may represent up to 204 counts
```

```
                    Normal Probability Plot
730+                                                                  *
   |                                                                 ******
   |                                                            ****++
   |                                                       *******
   |                                                  +******
   |                                            ********
   |                                      ********
570+                            *********
   |                        ******++
   |                       |*****+
   |                       |*
   |                       |*
   |                       |*
   |                       |*
   |
410+*
       +----+----+----+----+----+----+----+----+----+----+
           -2        -1         0        +1        +2
```

FREQUENCY DISTRIBUTION - SCALE SCORES
SDAA SPRING 2003
MATHEMATICS
ALL STUDENTS
INSTRUCTIONAL LEVEL 4

SCALE_SCORE		Freq	Cum. Freq	Percent	Cum. Percent
418	*	62	62	0.16	0.16
449		1	63	0.00	0.17
472		2	65	0.01	0.17
487		5	70	0.01	0.19
498		5	75	0.01	0.20
506		12	87	0.03	0.23
514	*	31	118	0.08	0.31
521	*	58	176	0.15	0.47
527	**	90	266	0.24	0.71
533	***	144	410	0.38	1.09
538	****	212	622	0.56	1.65
543	*****	251	873	0.67	2.32
548	*******	362	1235	0.96	3.28
553	*********	427	1662	1.13	4.41
557	**********	610	2272	1.62	6.03
561	**********	766	3038	2.03	8.07
566	**********	893	3931	2.37	10.44
570	**********	1159	5090	3.08	13.52
574	**********	1358	6448	3.61	17.13
578	**********	1542	7990	4.10	21.22
582	**********	1735	9725	4.61	25.83
586	**********	1849	11574	4.91	30.74
591	**********	1999	13573	5.31	36.05
595	**********	2067	15640	5.49	41.54
599	**********	2128	17768	5.65	47.19
604	**********	2309	20077	6.13	53.32
609	**********	2269	22346	6.03	59.35
614	**********	2322	24668	6.17	65.52
619	**********	2161	26829	5.74	71.26
625	**********	2198	29027	5.84	77.09
631	**********	1993	31020	5.29	82.39
638	**********	1869	32889	4.96	87.35
646	**********	1607	34496	4.27	91.62
657	**********	1372	35868	3.64	95.26
670	**********	959	36827	2.55	97.81
693	**********	581	37408	1.54	99.35
723	*****	244	37652	0.65	100.00

```
--------+-------+-------+-------+-------+------
       400     800     1200    1600    2000
                   Frequency
```

DESCRIPTIVE STATISTICS - SCALE SCORES
SDAA SPRING 2003
READING
ALL STUDENTS
INSTRUCTIONAL LEVEL 5

N	23662		
Mean	667.63	Median	668.00
Std deviation	35.64	Variance	1270.42
Skewness	0.1896	Kurtosis	0.7315
Mode	675.00	Std Error Mean	0.2317
Range	264.00	Interquartile Range	42.00

Quantile	Estimate
100% Max	762
99%	762
95%	732
90%	709
75% Q3	684
50% Median	668
25% Q1	642
10%	625
5%	614
1%	586
0% Min	498

```
                    Histogram                          #  Boxplot                       Normal Probability Plot
770+*****                                             611     0         770+                                          *******
   .                                                                      |                                            +++++
   .**********                                       1256     |         |                                      ******+
   .**************                                   1806     |         |                                 *****
   .**********************************              4345  +-----+        |                            *******
   .**************************************************6294  *--+--*        |                      ********
   .************************************             4598  +-----+        |                 ******
630+*************************                        3244     |         630+          ********
   .*********                                       1057     |         |    *******+
   .***                                               323     |         |*****++
   .*                                                  90     0         |*
   .*                                                   8     0         |*
   .*                                                   2     0         |*
   .                                                                    |
490+*                                                 28     *         490+*
    ----+----+----+----+----+----+----+----+----+---                        +----+----+----+----+----+----+----+----+----+----+
    * may represent up to 132 counts                                          -2        -1         0        +1        +2
```

FREQUENCY DISTRIBUTION - SCALE SCORES
SDAA SPRING 2003
READING
ALL STUDENTS
INSTRUCTIONAL LEVEL 5

SCALE_SCORE		Freq	Cum. Freq	Percent	Cum. Percent
498	*	28	28	0.12	0.12
529		2	30	0.01	0.13
552		8	38	0.03	0.16
567	*	28	66	0.12	0.28
577	*	62	128	0.26	0.54
586	**	122	250	0.52	1.06
594	****	201	451	0.85	1.91
601	*****	274	725	1.16	3.06
608	******	322	1047	1.36	4.42
614	*********	461	1508	1.95	6.37
620	**********	594	2102	2.51	8.88
625	**********	725	2827	3.06	11.95
631	**********	843	3670	3.56	15.51
637	**********	1082	4752	4.57	20.08
642	**********	1334	6086	5.64	25.72
648	**********	1511	7597	6.39	32.11
654	**********	1753	9350	7.41	39.51
661	**********	1936	11286	8.18	47.70
668	**********	2117	13403	8.95	56.64
675	**********	2241	15644	9.47	66.11
684	**********	2221	17865	9.39	75.50
695	**********	2124	19989	8.98	84.48
709	**********	1806	21795	7.63	92.11
732	**********	1256	23051	5.31	97.42
762	**********	611	23662	2.58	100.00

```
--------+-------+-------+-------+-------+-----
       400     800     1200    1600    2000
```

DESCRIPTIVE STATISTICS - SCALE SCORES
SDAA SPRING 2003
MATHEMATICS
ALL STUDENTS
INSTRUCTIONAL LEVEL 5

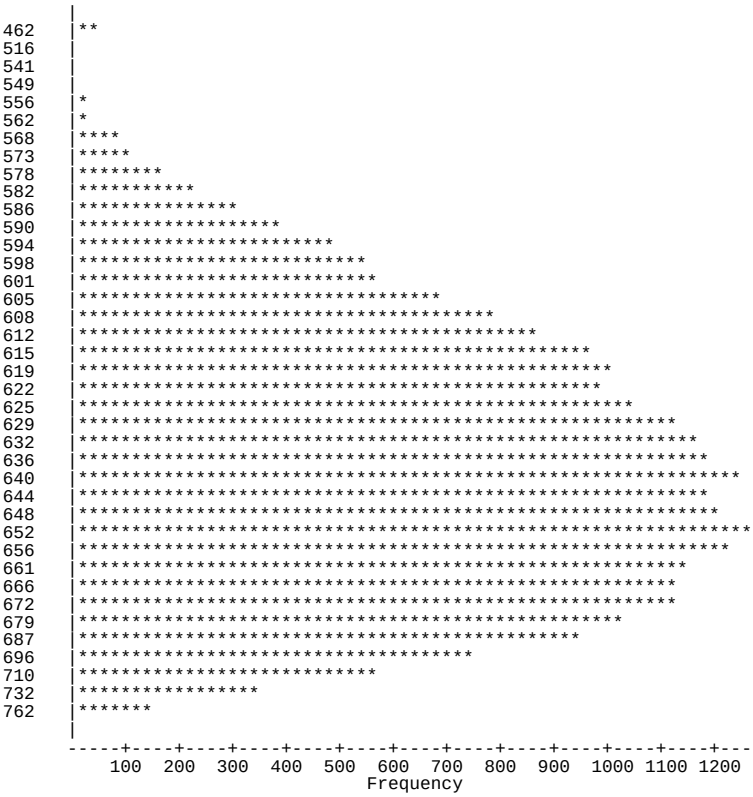
N	25833		
Mean	641.02	Median	640.00
Std deviation	33.35	Variance	1111.92
Skewness	0.3192	Kurtosis	1.2730
Mode	652.00	Std Error Mean	0.2075
Range	300.00	Interquartile Range	42.00

Quantile	Estimate
100% Max	762
99%	732
95%	696
90%	687
75% Q3	661
50% Median	640
25% Q1	619
10%	601
5%	590
1%	578
0% Min	462

```
                    Histogram                          #  Boxplot                       Normal Probability Plot
770+**                                               132     0         770+                                                  *
   .                                                            |            |
   .***                                              338     0            |                                            *****
710+*****                                            556     |         710+                                       ****++
   .**************                                  1681     |            |                                  +******
   .************************************           4413  +-----+          |                              ********
650+**************************************************6070  *--+--*       650+                       *******
   .*********************************************    5478  |     |          |                  *******
   .****************************************        4840  +-----+          |            ********
590+****************                                 1908     |         590+    *********
   .***                                              356     |            |*****++
   .*                                                 30     0            |*
530+                                                                     530+
   .*                                                  1     0            |*
   .                                                                      |
470+*                                                 30     *         470+*
    ----+----+----+----+----+----+----+----+----+---                          +----+----+----+----+----+----+----+----+----+----+
    * may represent up to 127 counts                                              -2        -1         0        +1        +2
```

FREQUENCY DISTRIBUTION - SCALE SCORES
SDAA SPRING 2003
MATHEMATICS
ALL STUDENTS
INSTRUCTIONAL LEVEL 5

SCALE_SCORE	Freq	Cum. Freq	Percent	Cum. Percent
462	30	30	0.12	0.12
516	1	31	0.00	0.12
541	4	35	0.02	0.14
549	4	39	0.02	0.15
556	22	61	0.09	0.24
562	25	86	0.10	0.33
568	72	158	0.28	0.61
573	92	250	0.36	0.97
578	167	417	0.65	1.61
582	217	634	0.84	2.45
586	298	932	1.15	3.61
590	378	1310	1.46	5.07
594	472	1782	1.83	6.90
598	543	2325	2.10	9.00
601	565	2890	2.19	11.19
605	682	3572	2.64	13.83
608	778	4350	3.01	16.84
612	858	5208	3.32	20.16
615	964	6172	3.73	23.89
619	993	7165	3.84	27.74
622	979	8144	3.79	31.53
625	1046	9190	4.05	35.57
629	1117	10307	4.32	39.90
632	1160	11467	4.49	44.39
636	1176	12643	4.55	48.94
640	1234	13877	4.78	53.72
644	1173	15050	4.54	58.26
648	1191	16241	4.61	62.87
652	1250	17491	4.84	67.71
656	1222	18713	4.73	72.44
661	1145	19858	4.43	76.87
666	1129	20987	4.37	81.24
672	1129	22116	4.37	85.61
679	1010	23126	3.91	89.52
687	949	24075	3.67	93.19
696	732	24807	2.83	96.03
710	556	25363	2.15	98.18
732	338	25701	1.31	99.49
762	132	25833	0.51	100.00



DESCRIPTIVE STATISTICS - SCALE SCORES
SDAA SPRING 2003
READING
ALL STUDENTS
INSTRUCTIONAL LEVEL 6

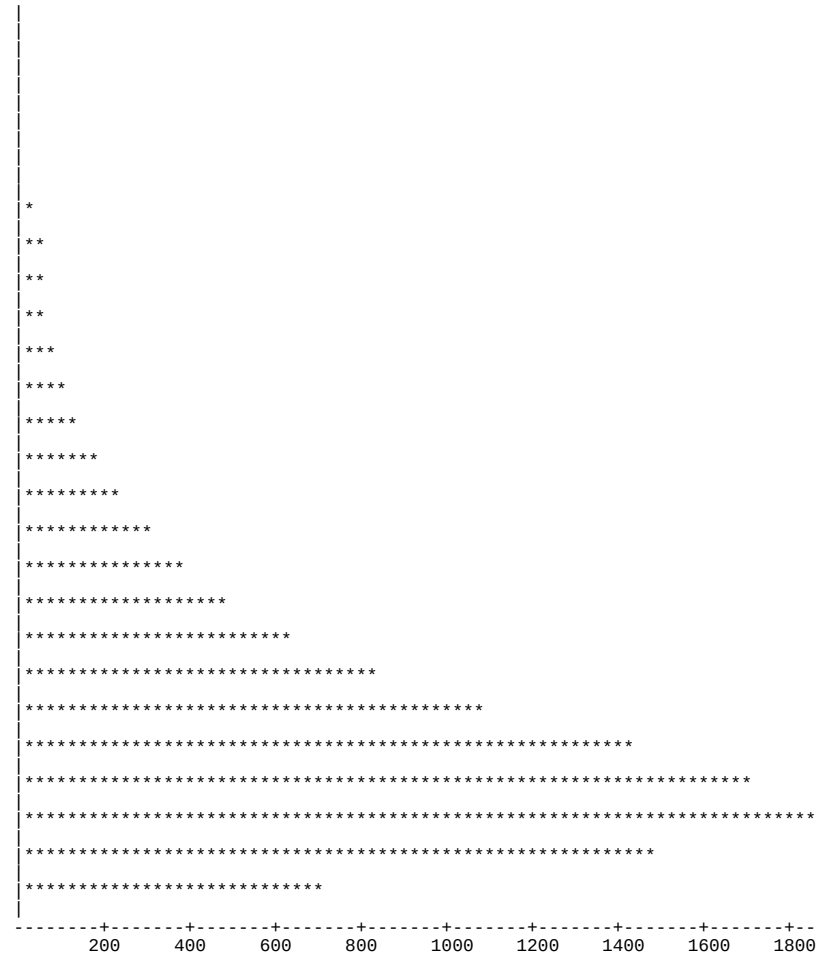
N	11722		
Mean	706.59	Median	702.00
Std deviation	36.75	Variance	1350.33
Skewness	-0.1663	Kurtosis	0.5828
Mode	728.00	Std Error Mean	0.3394
Range	270.00	Interquartile Range	43.00

Quantile	Estimate
100% Max	782
99%	782
95%	782
90%	751
75% Q3	728
50% Median	702
25% Q1	685
10%	659
5%	647
1%	616
0% Min	512

```
                    Histogram                          #  Boxplot                       Normal Probability Plot
790+***********                                      694     |          790+                                          **********
   .                                                         |                                                       +++++
   .***********************                           1467     |                                                 ********
   .******************************                    1859  +-----+          |                                 ******
   .*************************************************3129  *--+--*          |                         ********
   .*****************************                     1904  +-----+          |                 *****+
   .**********************                            1455     |                                |       *******
650+*************                                       825     |          650+        ******
   .****                                                236     |                |  +*****
   .**                                                  127     0                |****
   .*                                                    13     0                |*
   .*                                                     3     0                |*
   .*                                                     1     *                |*
   .                                                                             |
510+*                                                     9     *          510+*
    ----+----+----+----+----+----+----+----+----+---                              +----+----+----+----+----+----+----+----+----+----+
    * may represent up to 66 counts                                                 -2        -1         0        +1        +2
```

FREQUENCY DISTRIBUTION - SCALE SCORES
SDAA SPRING 2003
READING
ALL STUDENTS
INSTRUCTIONAL LEVEL 6

SCALE_SCORE	Freq	Cum. Freq	Percent	Cum. Percent
512	9	9	0.08	0.08
543	1	10	0.01	0.09
566	3	13	0.03	0.11
580	5	18	0.04	0.15
591	8	26	0.07	0.22
600	30	56	0.26	0.48
608	41	97	0.35	0.83
616	56	153	0.48	1.31
622	60	213	0.51	1.82
629	77	290	0.66	2.47
635	99	389	0.84	3.32
641	136	525	1.16	4.48
647	171	696	1.46	5.94
653	228	924	1.95	7.88
659	290	1214	2.47	10.36
665	365	1579	3.11	13.47
671	473	2052	4.04	17.51
678	617	2669	5.26	22.77
685	824	3493	7.03	29.80
693	1080	4573	9.21	39.01
702	1430	6003	12.20	51.21
713	1699	7702	14.49	65.71
728	1859	9561	15.86	81.56
751	1467	11028	12.51	94.08
782	694	11722	5.92	100.00



DESCRIPTIVE STATISTICS - SCALE SCORES
SDAA SPRING 2003
MATHEMATICS
ALL STUDENTS
INSTRUCTIONAL LEVEL 6

N	11750		
Mean	645.96	Median	647.00
Std deviation	26.96	Variance	727.02
Skewness	-0.0066	Kurtosis	2.5590
Mode	654.00	Std Error Mean	0.2487
Range	310.00	Interquartile Range	36.00

Quantile	Estimate
100% Max	774
99%	708
95%	690
90%	677
75% Q3	663
50% Median	647
25% Q1	627
10%	615
5%	605
1%	586
0% Min	464

```
                    Histogram                          #  Boxplot                      Normal Probability Plot
770+*                                                 13     *          770+                                                  *
   .*                                                 35     0            |                                                   *
   .*                                                 67     0            |                                                 ***
710+**                                               116     |          710+                                            ***++
   .***********                                      849     |            |                                      *********
   .****************************                    2228  +-----+          |                             ********
650+************************************************ 3805  *--+--*       650+                     **********
   .************************************            2864  +-----+          |                 ********
   .******************                               1403     |            |        **********
590+****                                             305     |          590+*******+
   .*                                                 52     0            |*
   .*                                                  1     0            |*
530+                                                                     530+
   .                                                                       |
   .                                                                       |
470+*                                                 12     *          470+*
     ----+----+----+----+----+----+----+----+----+---                        +----+----+----+----+----+----+----+----+----+----+
     * may represent up to 80 counts                                          -2        -1         0        +1        +2
```

FREQUENCY DISTRIBUTION - SCALE SCORES
SDAA SPRING 2003
MATHEMATICS
ALL STUDENTS
INSTRUCTIONAL LEVEL 6

SCALE_SCORE	Freq	Cum. Freq	Percent	Cum. Percent
464	12	12	0.10	0.10
556	1	13	0.01	0.11
563	1	14	0.01	0.12
568	9	23	0.08	0.20
573	17	40	0.14	0.34
578	25	65	0.21	0.55
582	23	88	0.20	0.75
586	44	132	0.37	1.12
590	53	185	0.45	1.57
594	75	260	0.64	2.21
598	110	370	0.94	3.15
601	162	532	1.38	4.53
605	193	725	1.64	6.17
608	186	911	1.58	7.75
611	257	1168	2.19	9.94
615	272	1440	2.31	12.26
618	333	1773	2.83	15.09
621	372	2145	3.17	18.26
624	415	2560	3.53	21.79
627	477	3037	4.06	25.85
630	485	3522	4.13	29.97
634	529	4051	4.50	34.48
637	586	4637	4.99	39.46
640	592	5229	5.04	44.50
644	593	5822	5.05	49.55
647	603	6425	5.13	54.68
651	683	7108	5.81	60.49
654	694	7802	5.91	66.40
658	640	8442	5.45	71.85
663	619	9061	5.27	77.11
667	630	9691	5.36	82.48
672	515	10206	4.38	86.86
677	464	10670	3.95	90.81
683	368	11038	3.13	93.94
690	282	11320	2.40	96.34
698	199	11519	1.69	98.03
708	116	11635	0.99	99.02
721	67	11702	0.57	99.59
743	35	11737	0.30	99.89
774	13	11750	0.11	100.00

DESCRIPTIVE STATISTICS - SCALE SCORES
SDAA SPRING 2003
READING
ALL STUDENTS
INSTRUCTIONAL LEVEL 7

N	4083		
Mean	703.16	Median	706.00
Std deviation	36.59	Variance	1339.02
Skewness	-0.0130	Kurtosis	0.5576
Mode	716.00	Std Error Mean	0.5727
Range	260.00	Interquartile Range	48.00

Quantile	Estimate
100% Max	783
99%	783
95%	783
90%	753
75% Q3	730
50% Median	706
25% Q1	682
10%	659
5%	642
1%	617
0% Min	523

```
                    Histogram                          #  Boxplot
785+*****************                               216     |
   .                                                        |
   .                                                        |
   .******************************                    392     |
   .                                                        |
   .***************************************           482  +-----+
   .                                                        |     |
   .*******************************************       539  |     |
   .************************************              465  *--+--*
   .********************************                  404  |     |
   .**************************************************611  +-----+
   .******************************                    370     |
   .***********                                       140     |
655+***************                                   193     |
   .**********                                        118     |
   .******                                             75     |
   .**                                                  22     |
   .***                                                 32     |
   .*                                                   12     0
   .*                                                    6     0
   .
   .*                                                    2     0
   .
   .
   .
   .
525+*                                                    4     *
    ----+----+----+----+----+----+----+----+----+--
    * may represent up to 13 counts
```

```
                    Normal Probability Plot
785+                                                  **********
   |                                                     ++
   |                                                  +++
   |                                           *******
   |                                            ++
   |                                      *****
   |                                     +++
   |                                 +****
   |                              ****
   |                           ****
   |                      *****
   |                  ****
   |              ***
655+          ****
   |        ****
   |    ****
   |   **+
   |****
   |*
   |*
   |
   |*
   |
   |
   |
525+*
      +----+----+----+----+----+----+----+----+----+----+
          -2        -1         0        +1        +2
```

FREQUENCY DISTRIBUTION - SCALE SCORES
SDAA SPRING 2003
READING
ALL STUDENTS
INSTRUCTIONAL LEVEL 7

SCALE_SCORE		Freq	Cum. Freq	Percent	Cum. Percent
523	*	4	4	0.10	0.10
576		2	6	0.05	0.15
590	*	6	12	0.15	0.29
601	**	12	24	0.29	0.59
610	**	12	36	0.29	0.88
617	***	20	56	0.49	1.37
624	***	22	78	0.54	1.91
631	****	27	105	0.66	2.57
637	******	48	153	1.18	3.75
642	*******	56	209	1.37	5.12
648	********	62	271	1.52	6.64
653	**********	95	366	2.33	8.96
659	**********	98	464	2.40	11.36
665	**********	140	604	3.43	14.79
670	**********	160	764	3.92	18.71
676	**********	210	974	5.14	23.86
682	**********	280	1254	6.86	30.71
689	**********	331	1585	8.11	38.82
697	**********	404	1989	9.89	48.71
706	**********	465	2454	11.39	60.10
716	**********	539	2993	13.20	73.30
730	**********	482	3475	11.81	85.11
753	**********	392	3867	9.60	94.71
783	**********	216	4083	5.29	100.00

```
----+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+
    30  60  90 120 150 180 210 240 270 300 330 360 390 420 450 480 510 540
                                Frequency
```

DESCRIPTIVE STATISTICS - SCALE SCORES
SDAA SPRING 2003
MATHEMATICS
ALL STUDENTS
INSTRUCTIONAL LEVEL 7

N	3957		
Mean	658.15	Median	658.00
Std deviation	24.83	Variance	616.71
Skewness	-0.0780	Kurtosis	1.4931
Mode	669.00	Std Error Mean	0.3948
Range	286.00	Interquartile Range	31.00

Quantile	Estimate
100% Max	762
99%	717
95%	696
90%	691
75% Q3	673
50% Median	658
25% Q1	642
10%	628
5%	618
1%	602
0% Min	476

```
                    Histogram                          #  Boxplot                       Normal Probability Plot
770+*                                                  4     0         770+                                                *
   .*                                                  5     0            |                                                *
   .*                                                 23     0            |                                               **
710+******                                           140     |         710+                                   ********
   .*************************                         618     |            |                                 **********
   .*********************************************    1070  +-----+         |                        ********
650+************************************************ 1186  *--+--*      650+                 *********
   .****************************                      698     |            |          **********
   .********                                          182     |            | *********
590+**                                                  29     0         590+**
   .                                                                       |
   .                                                                       |
530+                                                                     530+
   .                                                                       |
   .                                                                       |
470+*                                                   2     *         470+*
    ----+----+----+----+----+----+----+----+----+---                          +----+----+----+----+----+----+----+----+----+----+
    * may represent up to 25 counts                                              -2        -1         0        +1        +2
```

FREQUENCY DISTRIBUTION - SCALE SCORES
SDAA SPRING 2003
MATHEMATICS
ALL STUDENTS
INSTRUCTIONAL LEVEL 7

SCALE_SCORE		Freq	Cum. Freq	Percent	Cum. Percent
476		2	2	0.05	0.05
583		2	4	0.05	0.10
588	*	7	11	0.18	0.28
593	**	10	21	0.25	0.53
598	**	10	31	0.25	0.78
602	***	17	48	0.43	1.21
606	*****	27	75	0.68	1.90
610	********	38	113	0.96	2.86
614	********	40	153	1.01	3.87
618	**********	60	213	1.52	5.38
621	**********	70	283	1.77	7.15
625	**********	104	387	2.63	9.78
628	**********	104	491	2.63	12.41
632	**********	120	611	3.03	15.44
635	**********	138	749	3.49	18.93
638	**********	162	911	4.09	23.02
642	**********	163	1074	4.12	27.14
645	**********	198	1272	5.00	32.15
648	**********	206	1478	5.21	37.35
651	**********	214	1692	5.41	42.76
655	**********	186	1878	4.70	47.46
658	**********	219	2097	5.53	52.99
662	**********	212	2309	5.36	58.35
665	**********	215	2524	5.43	63.79
669	**********	234	2758	5.91	69.70
673	**********	219	2977	5.53	75.23
677	**********	190	3167	4.80	80.04
681	**********	207	3374	5.23	85.27
686	**********	164	3538	4.14	89.41
691	**********	127	3665	3.21	92.62
696	**********	120	3785	3.03	95.65
702	**********	73	3858	1.84	97.50
709	*********	43	3901	1.09	98.58
717	*****	24	3925	0.61	99.19
727	*****	23	3948	0.58	99.77
740	*	5	3953	0.13	99.90
762	*	4	3957	0.10	100.00

```
----+---+---+---+---+---+---+---+---+---+---+---
    20  40  60  80 100 120 140 160 180 200 220
                Frequency
```

DESCRIPTIVE STATISTICS - SCALE SCORES
SDAA SPRING 2003
READING
ALL STUDENTS
INSTRUCTIONAL LEVEL 8

N	1037		
Mean	699.65	Median	699.00
Std deviation	38.17	Variance	1457.31
Skewness	0.0703	Kurtosis	-0.0909
Mode	725.00	Std Error Mean	1.1855
Range	199.00	Interquartile Range	50.00

Quantile	Estimate
100% Max	779
99%	779
95%	779
90%	748
75% Q3	725
50% Median	699
25% Q1	675
10%	655
5%	638
1%	614
0% Min	580

```
                    Histogram                       #    Boxplot                          Normal Probability Plot
775+*************                                  65       |           775+                                          ***********
   .                                                        |                |                                           +++
   .                                                        |                |                                        ++
   .************************                        116       |                |                                 *******
   .                                                        |                |                                +++
   .****************************                    137    +-----+           |                            *****
   .*************************                       125    |     |           |                        ****
   .                                                       |     |           |                      ++
   .*********************************************   213    *--+--*           |                   ******
   .*******************                              93    |     |           |                ****
   .************                                      60    +-----+           |              ***
   .*********************                            102       |              |           *****
   .*********                                         45       |              |         ***+
   .****                                              20       |              |       ***
   .******                                            26       |              |     ***
   .***                                               15       |              |   ****
   .**                                                10       |              | ***
   .*                                                  5       |              |**
   .*                                                  4       0              |*
585+*                                                  1       0           585+*
    ----+----+----+----+----+----+----+----+---                                  +----+----+----+----+----+----+----+----+----+----+
    * may represent up to 5 counts                                                -2        -1         0        +1        +2
```

FREQUENCY DISTRIBUTION - SCALE SCORES
SDAA SPRING 2003
READING
ALL STUDENTS
INSTRUCTIONAL LEVEL 8

SCALE_SCORE		Freq	Cum. Freq	Percent	Cum. Percent
580	*	1	1	0.10	0.10
590	*	1	2	0.10	0.19
599	**	3	5	0.29	0.48
607	***	5	10	0.48	0.96
614	*****	10	20	0.96	1.93
620	**	4	24	0.39	2.31
626	******	11	35	1.06	3.38
632	*******	13	48	1.25	4.63
638	*******	13	61	1.25	5.88
644	**********	20	81	1.93	7.81
650	**********	19	100	1.83	9.64
655	**********	26	126	2.51	12.15
661	**********	49	175	4.73	16.88
668	**********	53	228	5.11	21.99
675	**********	60	288	5.79	27.77
682	**********	93	381	8.97	36.74
690	**********	92	473	8.87	45.61
699	**********	121	594	11.67	57.28
710	**********	125	719	12.05	69.33
725	**********	137	856	13.21	82.55
748	**********	116	972	11.19	93.73
779	**********	65	1037	6.27	100.00

```
-----+----+----+----+----+----+----+----+----+----+----+----+----+----
     10   20   30   40   50   60   70   80   90  100  110  120  130
                          Frequency
```

DESCRIPTIVE STATISTICS - SCALE SCORES
SDAA SPRING 2003
MATHEMATICS
ALL STUDENTS
INSTRUCTIONAL LEVEL 8

N	1103		
Mean	650.55	Median	652.00
Std deviation	25.91	Variance	671.20
Skewness	-0.1754	Kurtosis	2.7172
Mode	645.00	Std Error Mean	0.7801
Range	290.00	Interquartile Range	32.00

Quantile	Estimate
100% Max	752
99%	707
95%	692
90%	681
75% Q3	667
50% Median	652
25% Q1	635
10%	618
5%	611
1%	592
0% Min	462

```
                    Histogram                          #   Boxplot                        Normal Probability Plot
750+*                                                  3      0          750+                                                  *
   .*                                                  2      0             |                                                  *
   .***                                               19      0             |                                           ******
   .**************                                   111      |             |                                   *********
   .****************************                     232   +-----+          |                            *********
   .************************************************ 363   *--+--*          |                      *********
   .*******************************                   247   +-----+          |                 *********
610+**************                                    108      |          610+    **********
   .**                                                 15      0             |****++
   .*                                                   2      0             |*
   .                                                                         |
   .                                                                         |
   .                                                                         |
   .                                                                         |
470+*                                                  1      *          470+*
    ----+----+----+----+----+----+----+----+----+-                             +----+----+----+----+----+----+----+----+----+----+
    * may represent up to 8 counts                                                -2        -1         0        +1        +2
```

FREQUENCY DISTRIBUTION - SCALE SCORES
SDAA SPRING 2003
MATHEMATICS
ALL STUDENTS
INSTRUCTIONAL LEVEL 8

SCALE_SCORE	Freq	Cum. Freq	Percent	Cum. Percent
462	1	1	0.09	0.09
566	1	2	0.09	0.18
572	1	3	0.09	0.27
583	4	7	0.36	0.63
588	1	8	0.09	0.73
592	4	12	0.36	1.09
596	6	18	0.54	1.63
600	9	27	0.82	2.45
604	4	31	0.36	2.81
608	17	48	1.54	4.35
611	26	74	2.36	6.71
615	28	102	2.54	9.25
618	24	126	2.18	11.42
622	34	160	3.08	14.51
625	34	194	3.08	17.59
629	36	230	3.26	20.85
632	44	274	3.99	24.84
635	46	320	4.17	29.01
638	53	373	4.81	33.82
642	43	416	3.90	37.72
645	79	495	7.16	44.88
649	46	541	4.17	49.05
652	58	599	5.26	54.31
656	74	673	6.71	61.02
659	63	736	5.71	66.73
663	62	798	5.62	72.35
667	66	864	5.98	78.33
672	56	920	5.08	83.41
676	48	968	4.35	87.76
681	32	1000	2.90	90.66
686	27	1027	2.45	93.11
692	35	1062	3.17	96.28
699	17	1079	1.54	97.82
707	13	1092	1.18	99.00
717	6	1098	0.54	99.55
730	2	1100	0.18	99.73
752	3	1103	0.27	100.00