



AMERICAN BOARD OF OTOLARYNGOLOGY 2011 OTOLARYNGOLOGY TRAINING EXAMINATION

UNDERSTANDING YOUR SCORE REPORT

THE TEST

Residents and their program directors use the OTE to establish a baseline of specialty knowledge at the beginning of training, and to monitor changes in that knowledge over time. It is inappropriate for program directors to use this measure of resident performance as the sole form of assessment when evaluating residents for advancement. Rather, it is appropriate for program directors to use the aggregate performance of their residents when evaluating the strengths and weaknesses of their educational program.

The examination you took consisted of 300 multiple choice questions that evaluated recall of factual knowledge, interpretation skills, and problem-solving abilities. One hundred of the questions were field test items which are newly written questions that are placed in the test to see how they perform psychometrically but do not contribute to your score. Field test items If a field test item performs well psychometrically, it is placed in the pool of questions that will be used on subsequent tests as questions that count towards the score. In addition, 8 non-field test items were deleted on the basis of psychometrically analyses resulting in 192 items being used for scoring purposes.

Test items are assigned to subtest areas based on the question content and forms the basis for calculating your performance in each of these areas (Allergy, Fundamentals, Head and Neck, Laryngology, Otolaryngology, Pediatrics, Plastic and Reconstructive, Rhinology, and Sleep).

TRAINING GROUPS

In order to refine the analysis and assist your interpretation of your performance, U.S. test takers are divided into four training groups based on when they will complete their residency. The groups for this exam are those U.S. residents who will complete their residency in 2011, 2012, 2013, and 2014.

DEFINITIONS

Scale score is a transformation of your raw score. Scale scores should NOT be used to compare year to year performance as the data are rescaled each year. For example, a 5.50 from the 2009 training examination does NOT represent the same level of proficiency as a 5.50 from the 2011 training examination.

Percent correct is simply the number of items correct divided by the total number of items.

N represents the number of residents in the group reported.

Mean is the arithmetic average of the scale scores or percent correct in the specified group.

Std. Deviation is a measure of scale score or percent correct variability; the greater the value the more variable the group's scale scores or percent correct.

Minimum is the lowest observed scale score or percent correct for the specified group.

Maximum is the highest observed scale score or percent correct for the specified group.

Skewness is a measure of the degree of asymmetry of a distribution. If the left tail is more pronounced than the right tail, the distribution is said to have negative skewness. If the reverse is true, it has positive skewness. If the two are equal, it has zero skewness.

Stanine stands for 'standard score of nine categories' (Cronbach, 1970). Stanine is a method of scaling test scores on a 9-point scale with a mean of 5 and a standard deviation of 2. The scores range from 1 (lowest performing group) to 9 (highest performing group). Each stanine has a width of .5 standard deviations, except for the 1st and 9th stanines. A stanine is calculated from the distribution of resident scale scores for each group as well as for all test takers. In a normal distribution the table below provides the corresponding percentage of the scale score distribution represented by each stanine. For example, if your stanine is 6 that would indicate you outperformed at least 60% of the comparison (norm) group of test takers if the data are normally distributed. Alternatively the stanine of 6 would also mean you are between the 60th and 77th percentile in the comparison group. As residents progress in their training, they answer more questions correctly since they have had more education and experience. Therefore, it takes more correct answers (a higher scale score) to be at a given stanine in more senior groups than in groups who have had fewer years of training.

Stanine:	1	2	3	4	5	6	7	8	9
% of distribution	4%	7%	12%	17%	20%	17%	12%	7%	4%

Median corresponds to the 50th percentile.

REPORTS

INDIVIDUAL RESIDENT REPORT

You will receive from your Program Director your Individual Resident Report. Your name, ID number, and training group are indicated at the top of the page. Your raw score, scale score, stanine in your training group, and your stanine among all test takers for the nine specialty areas are printed in the middle of the report. The total scale score is your overall performance on the 192 items in the examination. Residents who complete training in 2015 receive group stanine data, but not national data, as the national data represents groups: 2011, 2012, 2013, 2014. First year resident scores are excluded from the national statistics because fewer of them take the OTE and their exposure to otolaryngology during the PGY-1 year varies considerably from program to program.

The ABOto Board of Directors determined that individual resident results will be reported in stanines. The reason for this decision is that at some points on the distribution of scores, a correct or incorrect response to an item or two can dramatically change the percentile rank. Therefore, the difference between a few percentiles is not statistically significant. Furthermore, as opposed to the Written Examination, the OTE is a norm referenced exam. As such, someone at say the 5th percentile rank may compare poorly to his/her *current* peers, but the level of proficiency may actually be sufficient for successful completion of his/her residency training and passing the Written Examination.

NATIONAL STATISTICAL REPORTS

We have incorporated several tables and charts in to this document that you will find useful in interpreting the results of the OTE.

Figure 1 is a graph of the average (mean) scale scores among all programs. This may be helpful in determining how your program compared to others nationally. The following factors will influence the appropriateness of comparisons.

- Displayed is each the program's scale score average, regardless the number of residents in the program.
- The number of residents in the programs presented in the chart ranged from 2 to 21 program residents. Thus an average, for example, based on 3 residents is not as stable or dependable an average as one computed based on 15 residents.
- There is no weighting or balancing to control/adjust for the expected graduation year. Thus, programs whose residents are relatively new, even when the number tested is large, cannot be expected to perform as well as an average based on persons with greater experience, etc.

Table 1 shows various scale score data by expected year of resident graduation. Similarly, Table 2 provides the same data based on the percent of items answered correctly. Tables 3 through 12 (Descriptive Statistics and Frequency Distribution) are summaries of percent correct data for the Total OTE score and by specialty area. A simple histogram of the scale score data for all residents is located on the same page. The "normal curve" is superimposed as a reference.

Tables 13 through 22 are tables which show the minimum and maximum scale scores for each of the 9 National stanine levels for each resident year. Also included are the percentages of residents within each year at each of the 9 National stanines. These provide a perspective on the relative performance of residents based on their expected year of graduation for the Total OTE score as well as each specialty area.

The tables allow the opportunity for the conversion of an individual's scale score to a National stanine as well as to estimate what percentage of their peers they performed better than. For example, given a scale score of 6 for the Total OTE score (Table 13) one can see they would be in the 7th National stanine (the scale score of 6 is between the minimum and maximum scaled scores for each of the resident years). If the resident was in the 2011 group a National stanine of 7 would mean this resident outperformed 64.4% ($.7 + 2 + 2.7 + 10.2 + 24.9 + 23.9 = 64.4$) of the 2011 group or alternatively this resident is located between the 64.4 and 82.8 percentiles for the 2011 group. Comparison to the 2014 group would mean this resident outperformed 96.3% of the 2014 group or alternatively this resident is located between the 96.3 and 99.8 percentiles for the 2014 group.

Figure 1

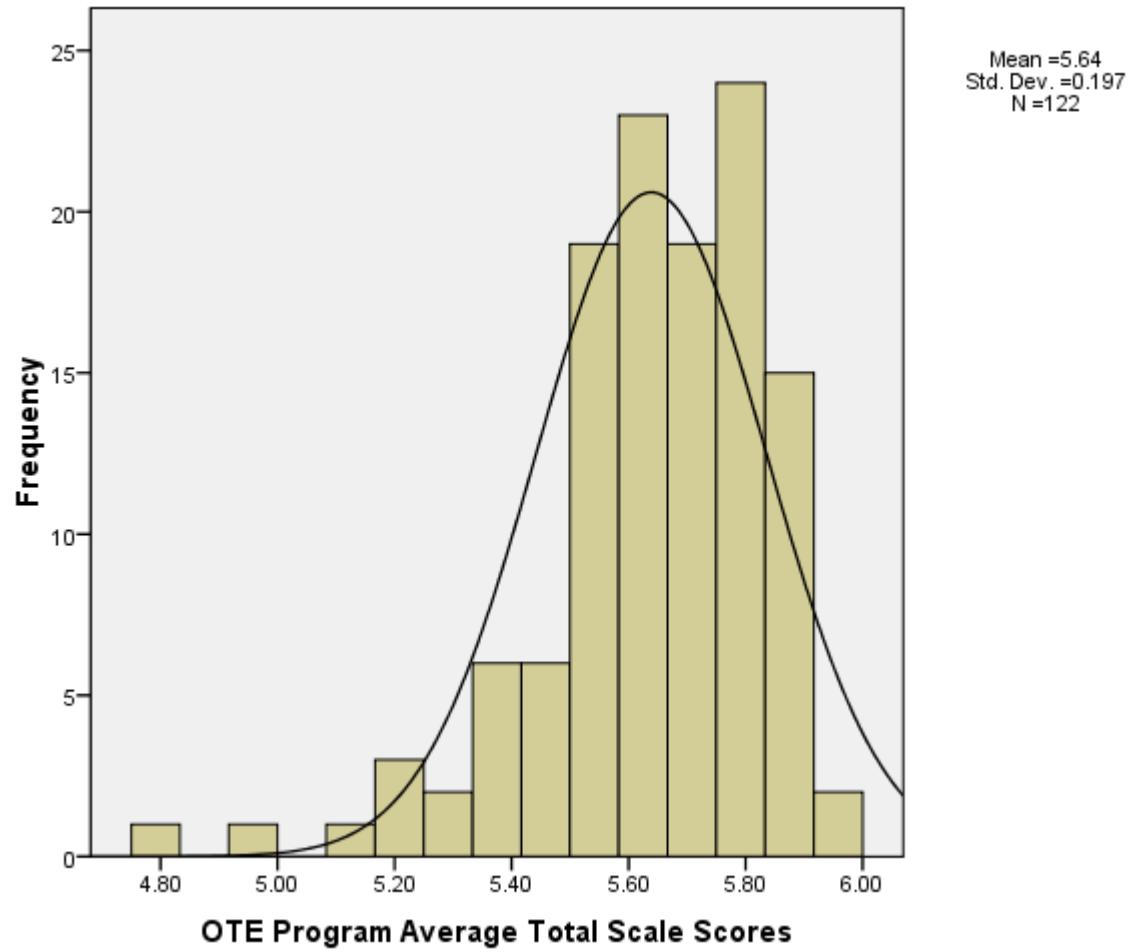


Table 1

Descriptive Scale Score Statistics by Resident Year

Resident Summary		Total	Allergy	Fundamentals	Head and Neck	Laryngology	Otology	Pediatrics	Plastic and	Rhinology	Sleep
Year	Statistics	Examination	Section	Section	Section	Section	Section	Section	Reconstructive	Section	Section
2011	N	293	293	293	293	293	293	293	293	293	293
	Mean	5.84	5.71	5.78	5.87	6.03	5.93	5.88	5.91	5.83	5.92
	Median	5.84	5.62	5.77	5.85	6.11	5.92	5.78	5.83	5.92	5.48
	Std. Deviation	0.28	0.80	0.56	0.47	0.74	0.57	0.53	0.49	0.62	1.05
	Minimum	4.76	2.64	4.17	4.42	4.05	4.63	4.40	4.45	4.18	3.02
	Maximum	6.74	7.60	8.28	7.28	9.18	8.83	7.56	7.25	8.01	7.77
	Skewness	-0.13	-0.06	0.39	0.03	0.41	0.74	0.40	0.09	0.32	0.14
2012	N	312	312	312	312	312	312	312	312	312	312
	Mean	5.81	5.83	5.81	5.85	5.93	5.89	5.86	5.79	5.82	5.82
	Median	5.81	5.62	5.77	5.85	5.74	5.92	5.78	5.83	5.92	5.48
	Std. Deviation	0.27	0.79	0.55	0.46	0.71	0.54	0.55	0.46	0.62	1.03
	Minimum	4.97	3.53	4.17	4.58	4.05	4.13	4.21	4.61	3.87	3.02
	Maximum	6.63	8.89	7.52	7.28	9.18	7.64	8.32	7.25	8.01	7.77
	Skewness	-0.02	0.49	0.33	0.12	0.68	0.21	0.46	0.06	0.31	0.26
2013	N	311	311	311	311	311	311	311	311	311	311
	Mean	5.67	5.74	5.69	5.69	5.70	5.69	5.69	5.66	5.68	5.86
	Median	5.66	5.62	5.58	5.68	5.74	5.78	5.78	5.67	5.61	5.48
	Std. Deviation	0.30	0.81	0.51	0.46	0.76	0.55	0.54	0.51	0.66	1.05
	Minimum	4.61	3.53	4.32	4.42	3.63	4.13	3.82	3.90	4.18	3.02
	Maximum	6.56	8.89	7.52	7.28	7.92	8.09	7.56	7.59	8.01	7.77
	Skewness	-0.39	0.10	0.28	0.04	0.15	0.16	0.13	0.10	0.51	0.17
2014	N	316	316	316	316	316	316	316	316	316	316
	Mean	5.40	5.60	5.55	5.39	5.28	5.28	5.41	5.41	5.52	5.62
	Median	5.42	5.62	5.58	5.36	5.40	5.35	5.42	5.37	5.61	5.48
	Std. Deviation	0.30	0.84	0.48	0.49	0.72	0.51	0.52	0.49	0.65	1.09
	Minimum	4.61	3.53	4.32	3.88	3.10	3.73	4.02	4.10	3.87	3.02
	Maximum	6.32	8.89	7.52	6.94	7.92	6.80	6.74	6.73	8.01	7.77
	Skewness	-0.03	0.32	0.42	0.23	0.10	0.10	0.14	0.19	0.42	0.27

Table 2

Descriptive Percent Correct Statistics by Resident Year

Resident Year	Summary Statistics	Total Examination	Allergy Section	Fundamentals Section	Head and Neck Section	Laryngology Section	Otology Section	Pediatrics Section	Plastic and Reconstructive Section	Rhinology Section	Sleep Section
2011	N	293	293	293	293	293	293	293	293	293	293
	Mean	67.50	60.89	71.58	67.65	68.41	63.70	70.16	64.54	69.68	72.35
	Median	67.71	60.00	72.41	67.86	71.43	64.52	69.23	63.33	72.22	66.67
	Std. Deviation	5.62	14.75	9.66	9.38	12.81	11.19	9.64	9.88	10.24	18.19
	Minimum	44.27	10.00	37.93	35.71	28.57	35.48	38.46	33.33	38.89	16.67
	Maximum	82.81	90.00	96.55	89.29	100.00	96.77	92.31	86.67	94.44	100.00
	Skewness	-0.45	-0.33	-0.35	-0.43	-0.37	0.04	-0.21	-0.23	-0.26	-0.39
2012	N	312	312	312	312	312	312	312	312	312	312
	Mean	66.89	63.01	72.14	67.26	66.58	63.18	69.64	62.02	69.55	70.62
	Median	67.19	60.00	72.41	67.86	64.29	64.52	69.23	63.33	72.22	66.67
	Std. Deviation	5.36	14.14	9.43	9.17	12.35	10.89	9.85	9.62	10.28	18.34
	Minimum	48.96	20.00	37.93	39.29	28.57	25.81	34.62	36.67	33.33	16.67
	Maximum	81.25	100.00	93.10	89.29	100.00	90.32	96.15	86.67	94.44	100.00
	Skewness	-0.26	-0.10	-0.27	-0.28	-0.15	-0.22	-0.33	-0.18	-0.23	-0.26
2013	N	311	311	311	311	311	311	311	311	311	311
	Mean	63.96	61.38	70.10	63.92	62.31	58.97	66.47	59.31	67.08	71.38
	Median	64.06	60.00	68.97	64.29	64.29	61.29	69.23	60.00	66.67	66.67
	Std. Deviation	6.28	14.91	9.29	9.70	14.40	11.52	10.53	10.54	11.07	18.43
	Minimum	41.15	20.00	41.38	35.71	21.43	25.81	26.92	23.33	38.89	16.67
	Maximum	80.21	100.00	93.10	89.29	92.86	93.55	92.31	90.00	94.44	100.00
	Skewness	-0.60	-0.33	-0.19	-0.28	-0.29	-0.16	-0.46	-0.13	-0.10	-0.38
2014	N	316	316	316	316	316	316	316	316	316	316
	Mean	58.45	58.64	67.62	57.41	54.02	50.09	60.76	54.03	64.21	66.82
	Median	58.85	60.00	68.97	57.14	57.14	51.61	61.54	53.33	66.67	66.67
	Std. Deviation	6.38	15.42	9.10	10.61	14.40	11.24	10.97	10.60	11.44	19.72
	Minimum	41.15	20.00	41.38	25.00	14.29	19.35	30.77	26.67	33.33	16.67
	Maximum	76.56	100.00	93.10	85.71	92.86	80.65	84.62	80.00	94.44	100.00
	Skewness	-0.12	-0.12	-0.05	0.02	-0.16	0.09	-0.10	0.08	0.00	-0.19

Table 3

**Descriptive Statistics and Frequency Distribution for
Percent Correct - All Residents**

Summary Statistics	Total Examination	Allergy Section	Fundamentals Section	Head and Neck Section	Laryngology Section	Otology Section	Pediatrics Section	Plastic and Reconstructive Section	Rhinology Section	Sleep Section
No. Residents	1232	1232	1232	1232	1232	1232	1232	1232	1232	1232
Mean	64.13	60.97	70.33	63.98	62.71	58.88	66.69	59.89	67.59	70.25
Std. Deviation	6.93	14.88	9.52	10.57	14.62	12.47	10.93	10.88	11.00	18.79
Minimum	41.15	10.00	37.93	25.00	14.29	19.35	26.92	23.33	33.33	16.67
Maximum	82.81	100.00	96.55	89.29	100.00	96.77	96.15	90.00	94.44	100.00
Percentiles										
25	59.90	50.00	62.93	57.14	50.00	51.61	61.54	53.33	61.11	50.00
50	64.84	60.00	68.97	64.29	64.29	58.06	69.23	60.00	66.67	66.67
75	68.75	70.00	75.86	71.43	71.43	67.74	73.08	66.67	77.78	83.33

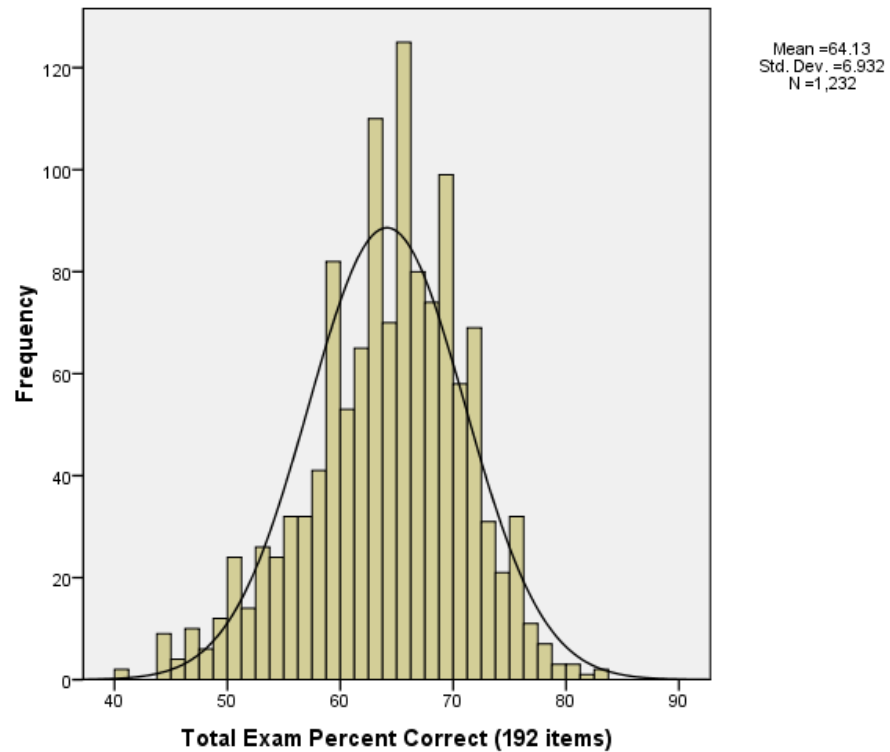
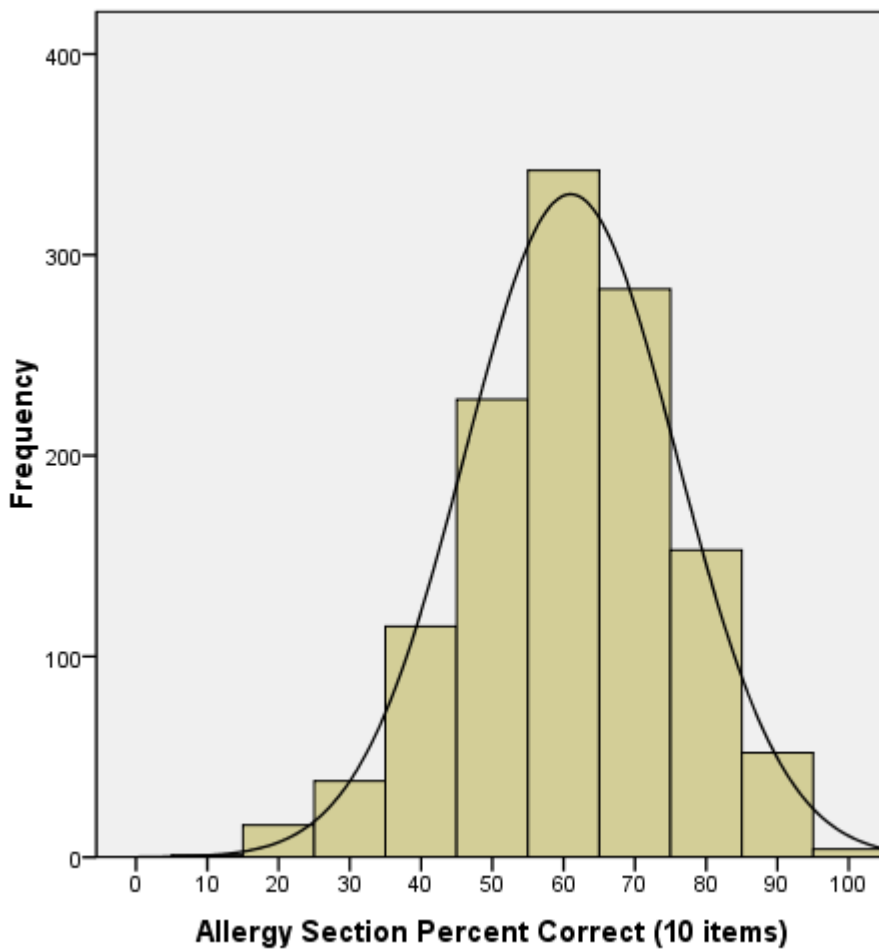


Table 4

**Descriptive Statistics and Frequency Distribution
for Percent Correct
Allergy Section - All Residents**

**Summary
Statistics**

No. Residents	1232
Mean	60.97
Std. Deviation	14.88
Minimum	10.00
Maximum	100.00
Percentiles	
25	50.00
50	60.00
75	70.00



Mean =60.97
Std. Dev. =14.882
N =1,232

Table 5

**Descriptive Statistics and Frequency Distribution
for Percent Correct
Fundamentals Section - All Residents**

**Summary
Statistics**

No. Residents	1232
Mean	70.33
Std. Deviation	9.52
Minimum	37.93
Maximum	96.55
Percentiles	
25	62.93
50	68.97
75	75.86

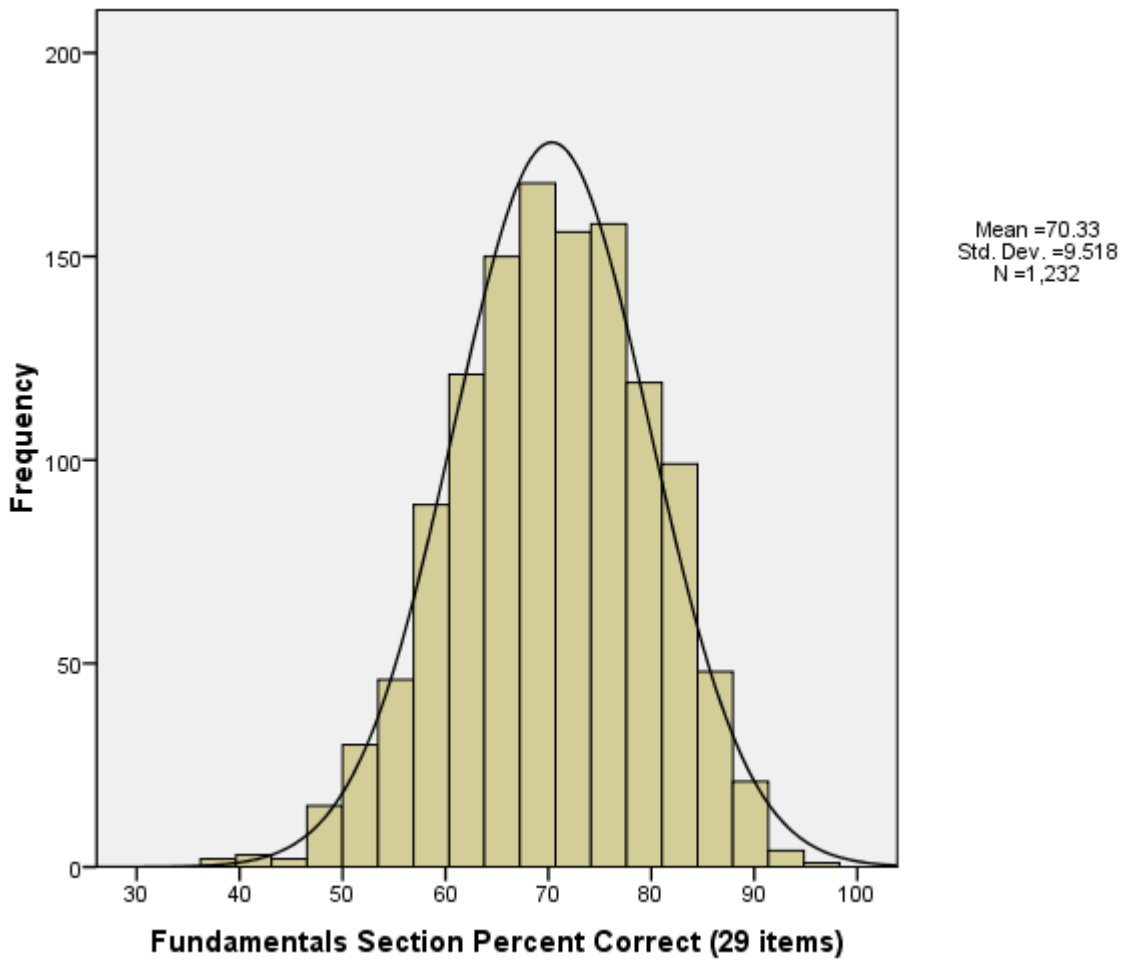


Table 6

**Descriptive Statistics and Frequency Distribution
for Percent Correct
Head and Neck Section - All Residents**

**Summary
Statistics**

No. Residents	1232
Mean	63.98
Std. Deviation	10.57
Minimum	25.00
Maximum	89.29
Percentiles	
25	57.14
50	64.29
75	71.43

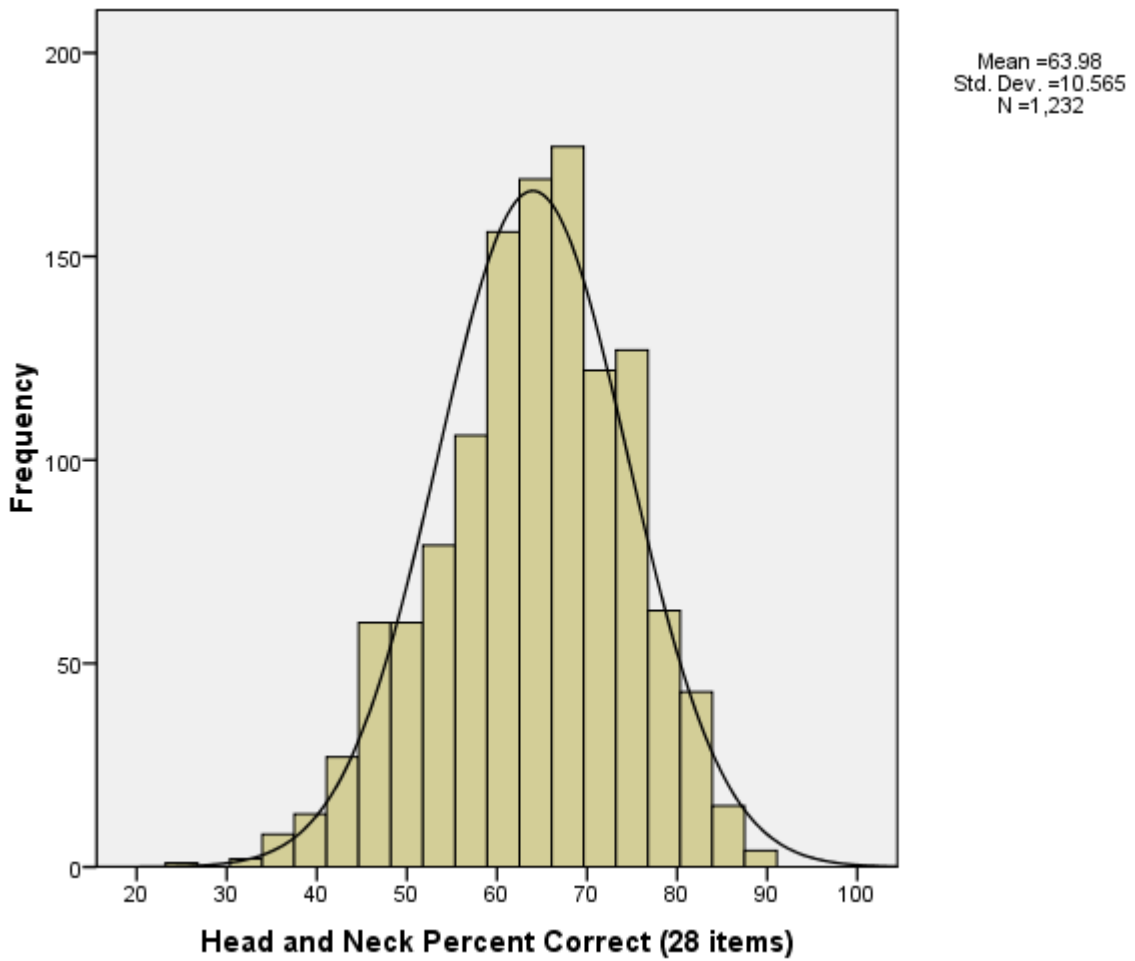


Table 7

**Descriptive Statistics and Frequency Distribution
for Percent Correct
Laryngology Section - All Residents**

**Summary
Statistics**

No. Residents	1232
Mean	62.71
Std. Deviation	14.62
Minimum	14.29
Maximum	100.00
Percentiles	
25	50.00
50	64.29
75	71.43

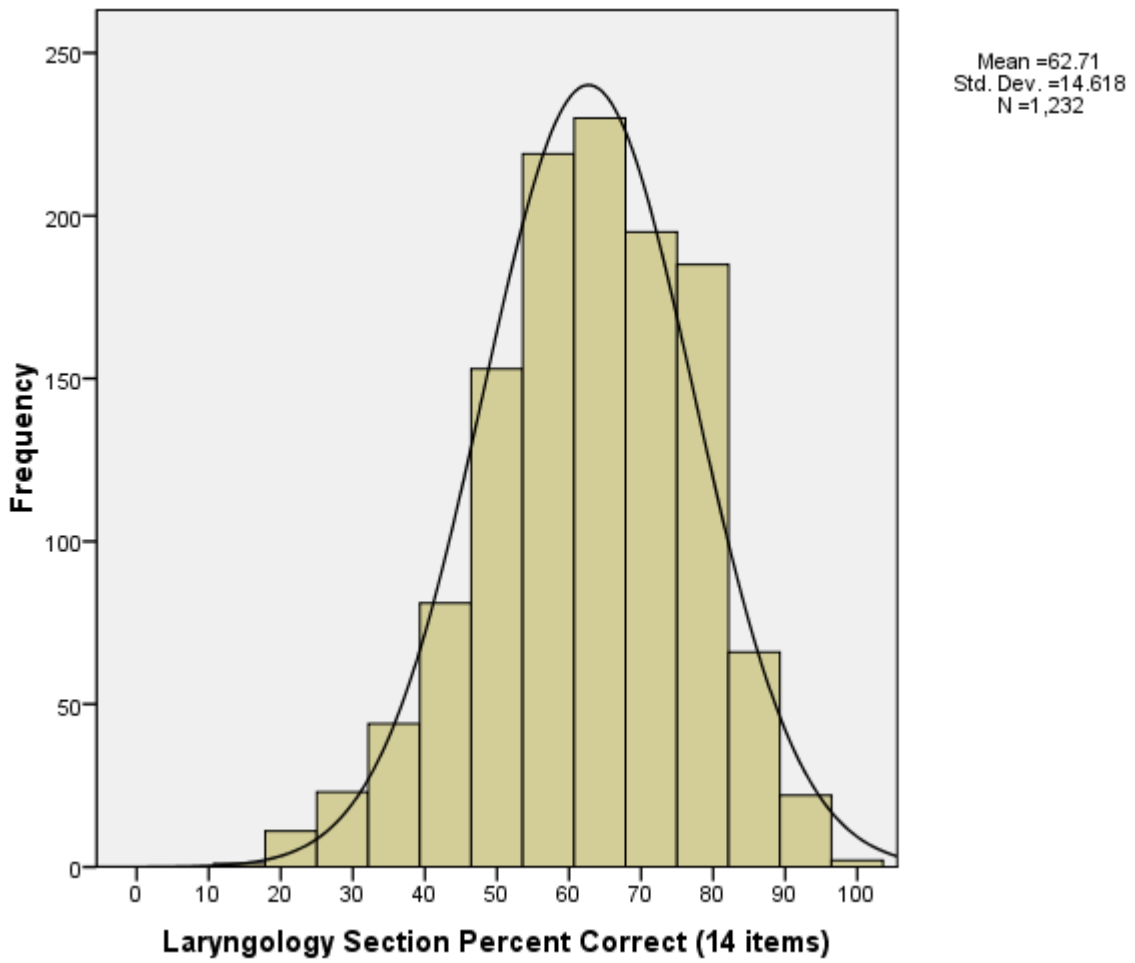


Table 8

**Descriptive Statistics and Frequency Distribution
for Percent Correct
Otology Section - All Residents**

**Summary
Statistics**

No. Residents	1232
Mean	58.88
Std. Deviation	12.47
Minimum	19.35
Maximum	96.77
Percentiles	
25	51.61
50	58.06
75	67.74

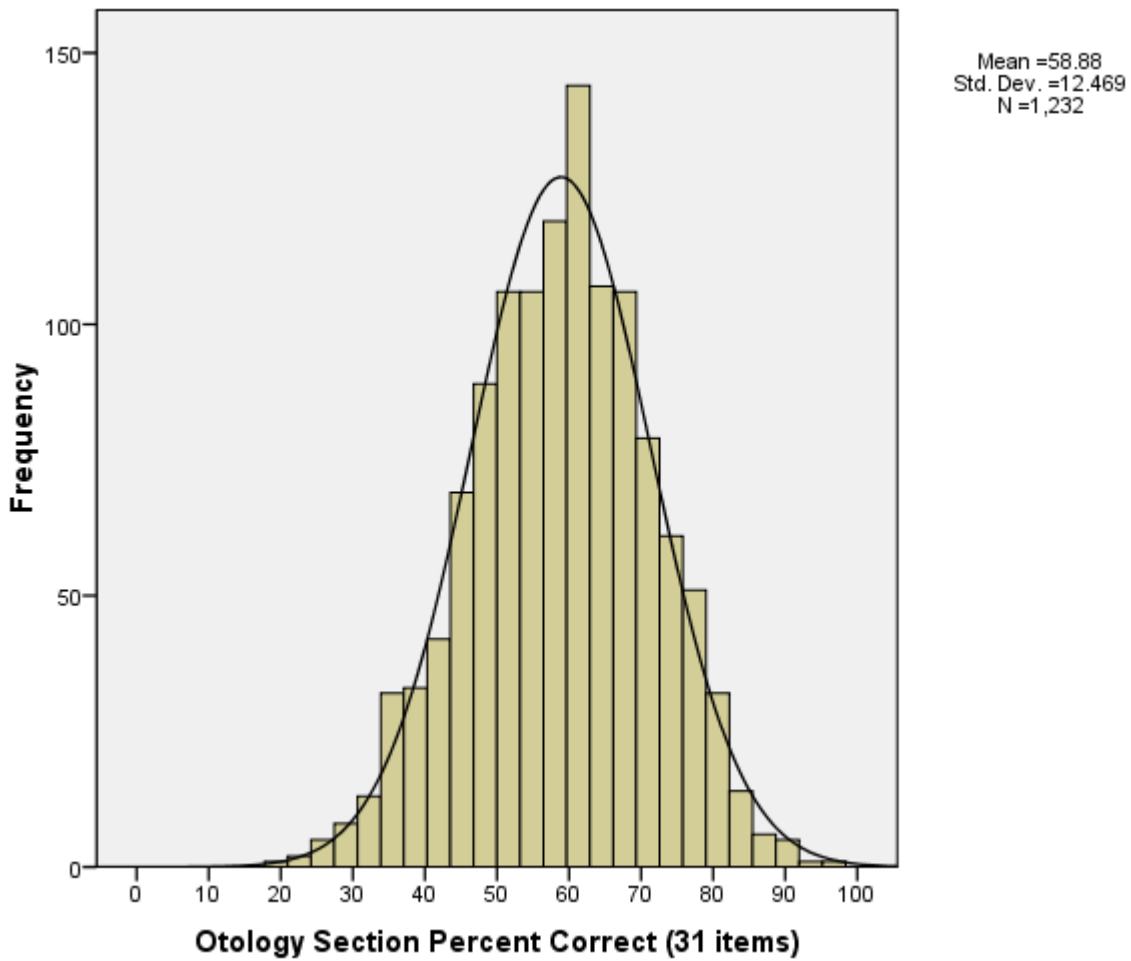
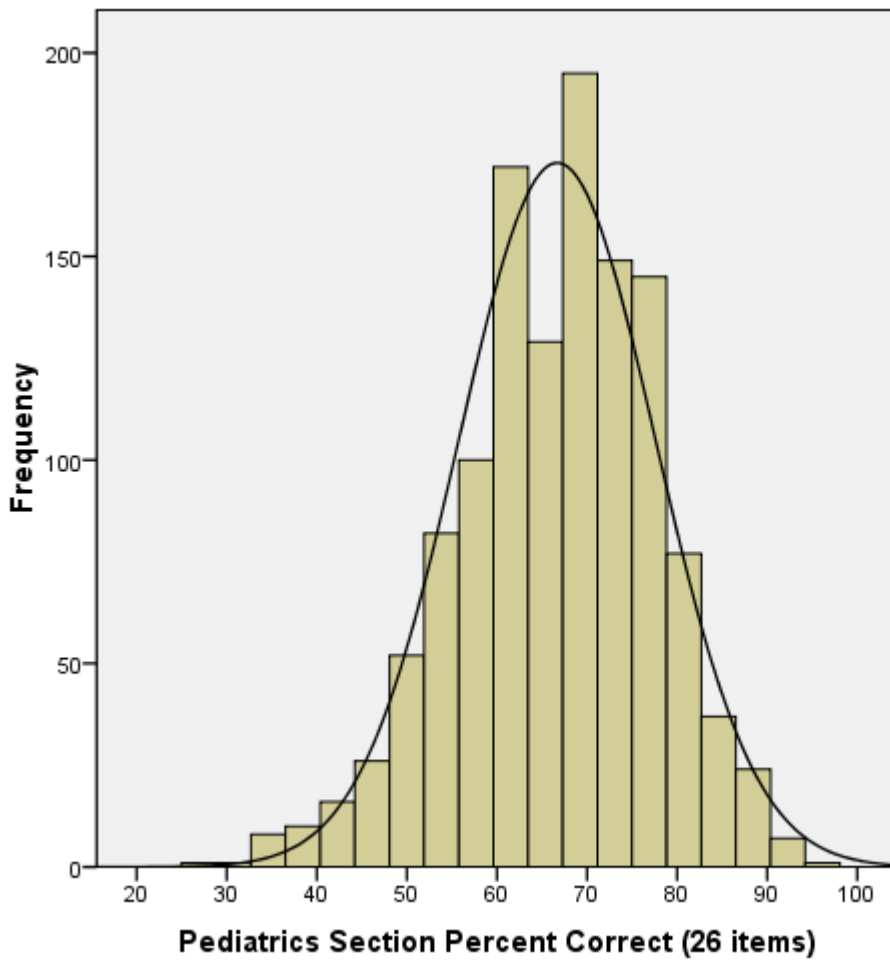


Table 9

**Descriptive Statistics and Frequency Distribution
for Percent Correct
Pediatrics Section - All Residents**

**Summary
Statistics**

No. Residents	1232
Mean	66.69
Std. Deviation	10.93
Minimum	26.92
Maximum	96.15
Percentiles	
25	61.54
50	69.23
75	73.08



Mean =66.69
Std. Dev. =10.926
N =1,232

Table 10

**Descriptive Statistics and Frequency Distribution
for Percent Correct
Plastic and Reconstructive Section - All Residents**

**Summary
Statistics**

No. Residents	1232
Mean	59.89
Std. Deviation	10.88
Minimum	23.33
Maximum	90.00
Percentiles	
25	53.33
50	60.00
75	66.67

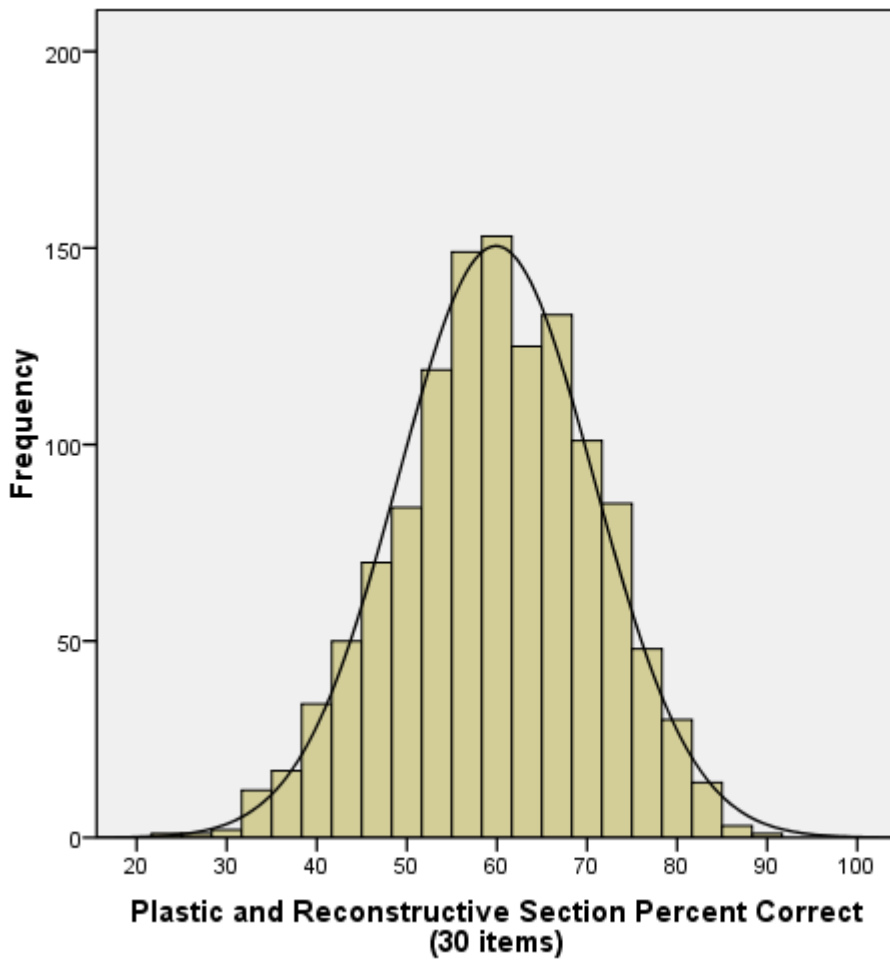


Table 11

**Descriptive Statistics and Frequency Distribution
for Percent Correct
Rhinology Section - All Residents**

**Summary
Statistics**

No. Residents	1232
Mean	67.59
Std. Deviation	11.00
Minimum	33.33
Maximum	94.44
Percentiles	
25	61.11
50	66.67
75	77.78

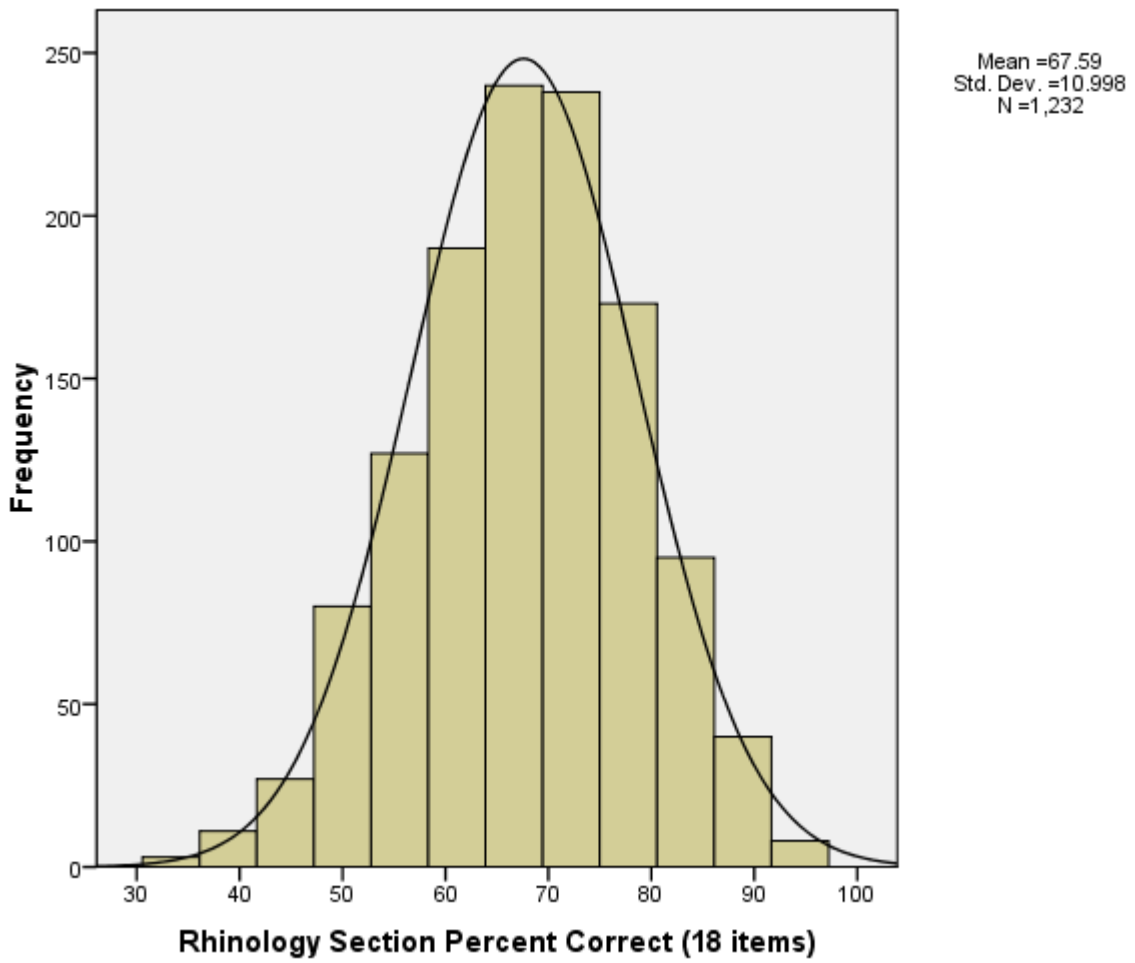


Table 12

**Descriptive Statistics and Frequency Distribution
for Percent Correct
Sleep Section - All Residents**

**Summary
Statistics**

No. Residents	1232
Mean	70.25
Std. Deviation	18.79
Minimum	16.67
Maximum	100.00
Percentiles	
25	50.00
50	66.67
75	83.33

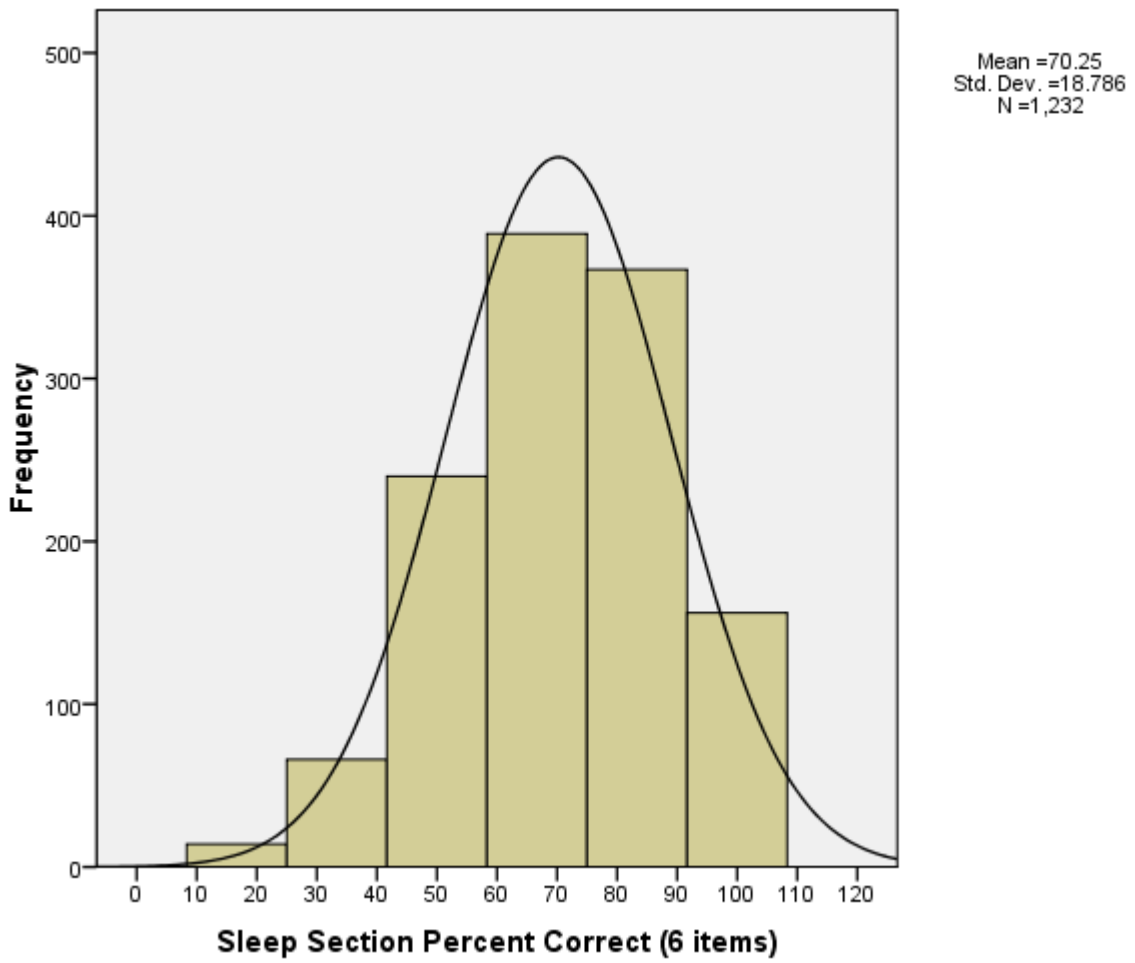


Table 13

		Total Examination Scale Scores											
		Resident Year											
		2011			2012			2013			2014		
		Minimum	Maximum	Column N %	Minimum	Maximum	Column N %	Minimum	Maximum	Column N %	Minimum	Maximum	Column N %
National	1	4.76	4.90	.7%	4.97	5.06	.6%	4.61	5.04	3.2%	4.61	5.06	16.8%
Stanine	2	5.09	5.25	2.0%	5.13	5.25	2.9%	5.11	5.25	6.8%	5.09	5.25	14.6%
	3	5.27	5.42	2.7%	5.27	5.42	3.5%	5.27	5.42	8.0%	5.27	5.42	20.9%
	4	5.44	5.56	10.2%	5.44	5.56	10.6%	5.44	5.56	18.0%	5.44	5.56	18.4%
	5	5.59	5.76	24.9%	5.59	5.76	27.6%	5.59	5.76	27.7%	5.59	5.76	19.0%
	6	5.79	5.92	23.9%	5.79	5.92	25.6%	5.79	5.92	16.1%	5.79	5.92	6.6%
	7	5.95	6.09	18.4%	5.95	6.09	15.1%	5.95	6.09	15.1%	5.95	6.09	3.5%
	8	6.11	6.26	10.6%	6.11	6.26	9.9%	6.11	6.26	3.9%	.	.	.0%
	9	6.29	6.74	6.5%	6.29	6.63	4.2%	6.29	6.56	1.3%	6.32	6.32	.3%

Table 14

		Allergy Section Scale Scores											
		Resident Year											
		2011			2012			2013			2014		
		Minimum	Maximum	Column N %	Minimum	Maximum	Column N %	Minimum	Maximum	Column N %	Minimum	Maximum	Column N %
National	1	4.15	5.62	.7%	5.15	5.62	.6%	3.53	6.13	3.2%	3.53	6.73	16.8%
Stanine	2	4.15	6.13	2.0%	3.53	6.13	2.9%	3.53	6.13	6.8%	3.53	7.60	14.6%
	3	5.15	6.13	2.7%	4.67	6.73	3.5%	3.53	7.60	8.0%	3.53	7.60	20.9%
	4	3.53	6.73	10.2%	4.15	7.60	10.6%	4.15	7.60	18.0%	4.15	8.89	18.4%
	5	2.64	7.60	24.9%	3.53	8.89	27.6%	4.15	7.60	27.7%	3.53	7.60	19.0%
	6	4.15	7.60	23.9%	4.15	7.60	25.6%	4.15	8.89	16.1%	4.67	7.60	6.6%
	7	4.15	7.60	18.4%	4.67	7.60	15.1%	4.67	7.60	15.1%	5.62	7.60	3.5%
	8	4.15	7.60	10.6%	5.15	7.60	9.9%	5.15	7.60	3.9%	.	.	.0%
	9	3.53	7.60	6.5%	5.15	7.60	4.2%	6.13	7.60	1.3%	7.60	7.60	.3%

Table 15

		Fundamentals Section Scale Scores											
		Resident Year											
		2011			2012			2013			2014		
		Minimum	Maximum	Column N %	Minimum	Maximum	Column N %	Minimum	Maximum	Column N %	Minimum	Maximum	Column N %
National	1	4.63	5.25	.7%	4.17	5.25	.6%	4.32	5.77	3.2%	4.48	5.96	16.8%
Stanine	2	4.78	5.41	2.0%	4.94	5.58	2.9%	4.78	6.18	6.8%	4.32	5.96	14.6%
	3	4.78	6.18	2.7%	4.94	5.96	3.5%	4.78	6.42	8.0%	4.63	6.42	20.9%
	4	4.32	6.42	10.2%	4.78	6.70	10.6%	4.48	6.70	18.0%	4.94	6.42	18.4%
	5	4.17	6.70	24.9%	4.63	6.70	27.6%	4.63	6.70	27.7%	4.94	7.52	19.0%
	6	4.63	8.28	23.9%	4.78	7.05	25.6%	5.25	6.70	16.1%	4.94	6.70	6.6%
	7	4.78	7.05	18.4%	5.09	7.52	15.1%	5.09	7.05	15.1%	5.58	7.05	3.5%
	8	5.09	6.70	10.6%	5.41	7.52	9.9%	5.25	7.52	3.9%	.	.	.0%
	9	5.77	7.05	6.5%	5.41	7.05	4.2%	5.96	6.42	1.3%	6.18	6.18	.3%

Table 16

		Head and Neck Section Scale Scores											
		Resident Year											
		2011			2012			2013			2014		
		Minimum	Maximum	Column N %	Minimum	Maximum	Column N %	Minimum	Maximum	Column N %	Minimum	Maximum	Column N %
National	1	4.42	5.05	.7%	5.20	5.68	.6%	4.42	5.36	3.2%	3.88	5.68	16.8%
Stanine	2	4.58	5.51	2.0%	4.58	5.68	2.9%	4.58	6.02	6.8%	4.25	5.85	14.6%
	3	4.90	5.85	2.7%	4.74	6.43	3.5%	4.90	5.85	8.0%	4.25	6.43	20.9%
	4	4.74	6.22	10.2%	4.90	6.94	10.6%	4.74	6.66	18.0%	4.58	6.43	18.4%
	5	4.90	6.94	24.9%	4.74	6.66	27.6%	4.90	6.94	27.7%	4.74	6.43	19.0%
	6	4.90	6.94	23.9%	4.58	6.66	25.6%	5.20	6.66	16.1%	5.20	6.94	6.6%
	7	5.05	6.66	18.4%	5.36	6.94	15.1%	5.20	7.28	15.1%	5.51	6.94	3.5%
	8	5.51	7.28	10.6%	5.20	7.28	9.9%	5.20	6.66	3.9%	.	.	.0%
	9	5.51	6.94	6.5%	5.85	6.94	4.2%	5.85	6.22	1.3%	6.43	6.43	.3%

Table 17

Laryngology Section Scale Scores												
Resident Year												
2011			2012			2013			2014			
Minimum	Maximum	Column N %	Minimum	Maximum	Column N %	Minimum	Maximum	Column N %	Minimum	Maximum	Column N %	
National 1	4.42	5.08	.7%	5.40	6.11	.6%	4.05	6.54	3.2%	3.10	5.74	16.8%
Stanine 2	4.05	5.74	2.0%	4.42	6.54	2.9%	3.63	6.11	6.8%	4.05	6.54	14.6%
3	4.75	6.11	2.7%	4.05	6.11	3.5%	4.42	7.09	8.0%	3.63	6.54	20.9%
4	4.42	7.09	10.2%	4.42	7.09	10.6%	4.42	6.54	18.0%	4.05	7.92	18.4%
5	4.75	7.92	24.9%	4.05	7.92	27.6%	4.42	7.92	27.7%	4.42	7.09	19.0%
6	4.75	7.09	23.9%	5.08	7.92	25.6%	4.42	7.09	16.1%	4.42	6.54	6.6%
7	5.08	9.18	18.4%	4.75	7.92	15.1%	5.08	7.92	15.1%	4.42	7.09	3.5%
8	5.74	7.92	10.6%	5.08	7.92	9.9%	5.74	7.92	3.9%	.	.	.0%
9	5.74	7.92	6.5%	5.08	9.18	4.2%	5.40	7.92	1.3%	6.54	6.54	.3%

Table 18

Otology Section Scale Scores													
Resident Year													
2011			2012			2013			2014				
Minimum	Maximum	Column N %	Minimum	Maximum	Column N %	Minimum	Maximum	Column N %	Minimum	Maximum	Column N %		
National Stanine	1	4.63	4.93	.7%	4.48	4.48	.6%	4.13	5.78	3.2%	3.73	5.92	16.8%
	2	4.63	5.78	2.0%	4.78	5.78	2.9%	4.31	5.78	6.8%	3.94	5.78	14.6%
	3	4.78	5.49	2.7%	4.78	6.41	3.5%	4.63	6.08	8.0%	4.31	6.08	20.9%
	4	4.78	6.80	10.2%	4.63	6.41	10.6%	4.31	6.41	18.0%	4.31	6.24	18.4%
	5	4.93	7.30	24.9%	4.13	6.41	27.6%	5.07	6.80	27.7%	4.93	6.60	19.0%
	6	4.93	8.83	23.9%	4.78	7.30	25.6%	5.21	6.80	16.1%	5.07	6.80	6.6%
	7	5.35	7.64	18.4%	5.49	7.03	15.1%	5.35	6.80	15.1%	5.07	6.41	3.5%
	8	5.78	7.30	10.6%	5.35	7.64	9.9%	5.92	6.80	3.9%	.	.	.0%
	9	5.92	7.64	6.5%	6.08	7.64	4.2%	6.60	8.09	1.3%	6.08	6.08	.3%

Table 19

Pediatrics Section Scale Scores													
Resident Year													
2011			2012			2013			2014				
Minimum	Maximum	Column N %	Minimum	Maximum	Column N %	Minimum	Maximum	Column N %	Minimum	Maximum	Column N %		
National	1	4.91	5.07	.7%	4.40	5.60	.6%	3.82	5.07	3.2%	4.02	5.60	16.8%
Stanine	2	4.57	5.99	2.0%	4.21	5.60	2.9%	4.91	5.99	6.8%	4.40	5.99	14.6%
	3	5.07	6.21	2.7%	4.91	5.78	3.5%	4.21	6.21	8.0%	4.57	6.74	20.9%
	4	4.40	5.99	10.2%	4.91	6.74	10.6%	4.40	7.09	18.0%	4.57	6.21	18.4%
	5	4.74	7.09	24.9%	4.74	7.09	27.6%	4.40	7.09	27.7%	4.74	6.74	19.0%
	6	4.91	7.56	23.9%	5.24	7.09	25.6%	4.74	7.56	16.1%	5.07	6.45	6.6%
	7	5.42	7.56	18.4%	5.24	8.32	15.1%	5.24	7.09	15.1%	5.42	6.74	3.5%
	8	5.07	7.09	10.6%	5.60	7.56	9.9%	5.60	7.09	3.9%	.	.	.0%
	9	5.60	7.56	6.5%	5.78	7.09	4.2%	6.45	7.56	1.3%	6.21	6.21	.3%

Table 20

		Plastic and Reconstructive Section Scale Scores											
		Resident Year											
		2011			2012			2013			2014		
		Minimum	Maximum	Column N %	Minimum	Maximum	Column N %	Minimum	Maximum	Column N %	Minimum	Maximum	Column N %
National	1	4.45	5.08	.7%	4.77	4.93	.6%	3.90	5.22	3.2%	4.10	6.15	16.8%
Stanine	2	4.45	5.67	2.0%	5.22	5.99	2.9%	4.28	5.83	6.8%	4.45	5.99	14.6%
	3	5.22	5.99	2.7%	5.22	6.15	3.5%	4.61	5.99	8.0%	4.61	6.52	20.9%
	4	4.77	6.15	10.2%	4.77	5.83	10.6%	4.93	6.33	18.0%	4.45	6.73	18.4%
	5	4.77	6.97	24.9%	4.61	6.33	27.6%	4.45	6.73	27.7%	4.77	6.73	19.0%
	6	5.08	6.97	23.9%	5.08	6.52	25.6%	4.93	6.52	16.1%	5.22	6.73	6.6%
	7	5.37	6.73	18.4%	5.37	6.97	15.1%	5.37	7.59	15.1%	5.52	6.73	3.5%
	8	5.52	6.97	10.6%	5.37	6.97	9.9%	5.83	6.97	3.9%	.	.	.0%
	9	5.83	7.25	6.5%	5.52	7.25	4.2%	6.15	6.73	1.3%	6.15	6.15	.3%

Table 21

		Rhinology Section Scale Scores											
		Resident Year											
		2011			2012			2013			2014		
		Minimum	Maximum	Column N %	Minimum	Maximum	Column N %	Minimum	Maximum	Column N %	Minimum	Maximum	Column N %
National	1	5.04	5.32	.7%	5.32	5.61	.6%	4.18	5.61	3.2%	3.87	6.27	16.8%
Stanine	2	4.48	5.92	2.0%	3.87	6.27	2.9%	4.48	6.27	6.8%	3.87	6.27	14.6%
	3	4.18	5.92	2.7%	4.48	5.61	3.5%	4.76	6.67	8.0%	4.18	6.67	20.9%
	4	4.48	8.01	10.2%	4.48	8.01	10.6%	4.18	6.67	18.0%	4.48	7.19	18.4%
	5	4.48	6.67	24.9%	4.18	7.19	27.6%	4.48	8.01	27.7%	4.48	7.19	19.0%
	6	5.04	7.19	23.9%	4.76	7.19	25.6%	4.76	7.19	16.1%	4.76	7.19	6.6%
	7	4.18	8.01	18.4%	5.32	7.19	15.1%	4.76	8.01	15.1%	5.04	8.01	3.5%
	8	5.04	7.19	10.6%	5.32	8.01	9.9%	5.32	7.19	3.9%	.	.	.0%
	9	5.04	7.19	6.5%	5.32	7.19	4.2%	5.32	7.19	1.3%	7.19	7.19	.3%

Table 22

		Sleep Section Scale Scores											
		Resident Year											
		2011			2012			2013			2014		
		Minimum	Maximum	Column N %	Minimum	Maximum	Column N %	Minimum	Maximum	Column N %	Minimum	Maximum	Column N %
National	1	3.02	4.00	.7%	4.74	4.74	.6%	3.02	6.44	3.2%	4.00	7.77	16.8%
Stanine	2	4.74	7.77	2.0%	4.74	6.44	2.9%	3.02	7.77	6.8%	3.02	7.77	14.6%
	3	4.74	6.44	2.7%	4.00	7.77	3.5%	4.00	7.77	8.0%	3.02	7.77	20.9%
	4	4.00	7.77	10.2%	4.00	7.77	10.6%	3.02	7.77	18.0%	3.02	7.77	18.4%
	5	4.00	7.77	24.9%	3.02	7.77	27.6%	4.00	7.77	27.7%	3.02	7.77	19.0%
	6	4.00	7.77	23.9%	4.00	7.77	25.6%	4.00	7.77	16.1%	4.74	7.77	6.6%
	7	3.02	7.77	18.4%	4.00	7.77	15.1%	4.00	7.77	15.1%	5.48	7.77	3.5%
	8	4.00	7.77	10.6%	4.74	7.77	9.9%	4.74	7.77	3.9%	.	.	.0%
	9	4.74	7.77	6.5%	4.00	7.77	4.2%	4.74	7.77	1.3%	5.48	5.48	.3%