

ESTIMATING YOUR STANDARD SCORE BASED ON THE DAT SAMPLE TEST

The Raw Score/Standard Score Conversion Table is designed to help you estimate the standard scores that you would have received on the various tests if you had actually taken them. On the DAT, eight standard test scores are reported: Quantitative Reasoning, a separate 40-item test; Reading Comprehension, a 50-item test; Biology, the first 40 items of the Survey of the Natural Sciences; General Chemistry, items 41-70 on the Survey of the Natural Sciences; Organic Chemistry, items 71-100 on the Survey of the Natural Sciences; Total Science, combining the three parts of the Survey of the Natural Sciences (100 items); and Perceptual Ability, a separate 90-item test; Academic Average, the average of the standard scores on the Quantitative Reasoning, Reading Comprehension, Biology, and General and Organic Chemistry tests,

The following procedure will allow you to estimate your standard score.

1. Take the practice test under timed conditions to approximate the actual test administration.
2. There is no penalty for attempting an item and getting it wrong. You should attempt every item, eliminating as many incorrect answers as possible when you are not sure of the correct response.
3. Score the test using the answer key on the following page. Assign 1 point for every item answered correctly and 0 points for every item answered incorrectly.
4. Add up all the points on a test. This is your raw score.
5. The next step is to convert your raw score to a standard score. The standard scores on the DAT are reported on a scale ranging from 1 to 30. The mean of the test is approximately 17 but varies from test to test, and test date to test date, depending on the distribution of ability in the persons taking each test.

To find your standard score, locate the appropriate column for the test you just scored on the Standard Score/Raw Score Conversion Table.

6. Locate your raw score on that test in this column.
7. Go across that row to the left-hand column headed "STD Score" to find your standard score.

For example, if you answered 28 items correctly on the Quantitative Reasoning Test, look to the column labeled QRT and go down that column until you find the score range that includes "28", i.e., 27-28. Then proceed across that row to the column labeled "STD Score" on the left. The row containing 27-28 for the QRT corresponds to a standard score of 19 for that test.

This procedure can also be used for the Reading Comprehension, Biology, General Chemistry, Organic Chemistry, and Perceptual Ability Tests.

8. To find your Total Science score, add together your raw scores on Biology, General Chemistry, and Organic Chemistry. The maximum raw score is 100. (Please do not add the standard scores together.)
9. In the column labeled "SNS" find the row that contains your raw score for the sum of the three science subtests.

10. Go across the row to the left column to find your Total Science standard score. The Total Science score is not an average of the Biology, General Chemistry and Organic Chemistry standard scores.

For example, if you answered 21 items correctly on Biology, 14 on General Chemistry, and 13 on Organic Chemistry, your Total Science raw score would be $21 + 14 + 13$, or 48. Next, find the score range in the "SNS" column that contains "48", i.e., the fifteenth row down when the range is 48-55. Proceed left across that row to the "STD Score" column. In this example, the standard score for a raw score of 48 on the Survey of the Natural Sciences is 15.

11. The Academic Average reported on the DAT is the arithmetic average of five standard scores: Quantitative Reasoning (QRT), Reading Comprehension (RCT), Biology (BIO), General Chemistry (GEN CHEM.), and Organic Chemistry (ORG CHEM). Therefore, if your standard scores on the five tests were

QRT	16
RCT	18
BIO	14
GEN CHEM	15
ORG CHEM	15

$$78 \div 5 = 15.6,$$

the sum of those five scores would be 78. Dividing this total by five yields a score of 15.6. Because the DAT scores are reported only in intervals of 1 point, this would be rounded up to a score of 16. If the average had been 15.4, then the score would have been rounded down to 15.

**DENTAL ADMISSION TESTING PROGRAM
STANDARD SCORE-RAW SCORE CONVERSIONS
FOR THE DAT SAMPLE TEST**

STD SCORE	QRT	RCT	BIO	GEN CHEM	ORG CHEM	SNS (Total Sci)	PAT
30	40	-	-	-	30	100	90
29	39	17	40	-	-	99	89
28	-	-	-	30	29	98	88
27	-	-	-	-	-	97	-
26	38	-	39	-	-	96	87
25	37	16	-	29	28	95	85-86
24	36	-	38	-	-	94	84
23	35	15	-	28	27	92-93	81-83
22	33-34	-	37	-	-	89-91	78-80
21	31-32	14	35-36	27	26	86-88	74-77
20	29-30	13	34	26	25	81-85	70-73
19	27-28	12	32-33	24-25	23-24	76-80	67-69
18	24-26	11	30-31	22-23	21-22	70-75	59-66
17	22-23	9-10	27-29	20-21	19-20	63-69	52-58
16	19-21	8	24-26	18-19	17-18	56-62	46-51
15	16-18	7	21-23	16-17	15-16	48-55	39-45
14	14-15	6	18-20	13-15	13-14	41-47	32-38
13	11-13	5	15-17	11-12	11-12	33-40	26-31
12	9-10	4	12-14	9-10	8-10	27-32	21-25
11	7-8	3	10-11	7-8	7	21-26	17-20
10	6	-	8-9	6	5-6	17-20	13-16
9	5	2	6-7	4-5	4	13-16	10-12
8	4	-	5	3	3	10-12	7-9
7	3	1	4	-	-	7-9	6
6	2	-	3	2	2	5-6	4-5
5	-	-	2	-	-	4	3
4	-	0	-	1	1	3	2
3	1	-	1	-	-	2	-
2	-	-	-	-	-	-	-
1	0	-	0	0	0	0-1	0-1

For each standard score, the tables shown below provide an estimate of the proportion of examinees receiving the same and lower scores. For example, an examinee obtains a standard score of 17 on the Quantitative Reasoning Test. Table I shows that 76.4 percent of the examinees received standard scores equal to or lower than 17. The tabled values are based on the performance of examinees who were administered the DAT prior to the current testing period and should be considered only estimates of the examinees' performance on the sample test.

Table 1 Quantitative Reasoning		Table 2 Reading Comprehension		Table 3 Biology		Table 4 General Chemistry	
Standard Score	Cumulative Percent	Standard Score	Cumulative Percent	Standard Score	Cumulative Percent	Standard Score	Cumulative Percent
30	100	30	100	30	100	30	100
29	100	29	100	29	100	29	100
28	99.8	28	99.6	28	100	28	100
27	99.6	27	99.6	27	99.9	27	99.5
26	99.4	26	98.2	26	99.9	26	98.7
25	98.8	25	97.6	25	99.2	25	98.4
24	98.1	24	95.4	24	99.2	24	95.5
23	96.7	23	92.3	23	98.2	23	94.8
22	94.4	22	85.9	22	96.6	22	92.6
21	91.6	21	77.9	21	93.4	21	89.1
20	88.6	20	67.5	20	89.1	20	82.4
19	82	19	53.4	19	79.1	19	76.7
18	74.1	18	40.2	18	68.5	18	66.3
17	63.9	17	27.3	17	54.6	17	55.2
16	49.8	16	15.5	16	39	16	44.8
15	36.1	15	8	15	25.1	15	32.6
14	25.7	14	3.8	14	14.3	14	21.6
13	15.4	13	1.6	13	7	13	12.5
12	7.5	12	0.6	12	3.2	12	7.1
11	3.3	11	0.2	11	1.2	11	3.6
10	1.5	10	0.1	10	0.3	10	1.1
9	0.5	9	0	9	0.1	9	0.4
8	0.2	8	0	8	0	8	0.2
7	0.1	7	0	7	0	7	0
6	0	6	0	6	0	6	0
5	0	5	0	5	0	5	0
4	0	4	0	4	0	4	0
3	0	3	0	3	0	3	0
2	0	2	0	2	0	2	0
1	0	1	0	1	0	1	0
Mean =	16.73	Mean	19.35	Mean	17.32	Mean	17.27

Table 5 Organic Chemistry		Table 6 Total Science		Table 7 Academic Average		Table 8 Perceptual Ability	
Standard Score	Cumulative Percent	Standard Score	Cumulative Percent	Standard Score	Cumulative Percent	Standard Score	Cumulative Percent
30	100	30	100	30	100	30	100
31	100	29	100	29	100	29	100
28	100	28	100	28	100	28	100
27	100	27	100	27	100	27	99.9
26	98.3	26	99.9	26	100	26	99.8
25	98	25	99.8	25	99.9	25	99.6
24	95	24	99.4	24	99.7	24	99.3
23	94.1	23	98.7	23	98.8	23	98.8
22	91.2	22	96.7	22	96.7	22	97.1
21	87.6	21	93.5	21	92.9	21	93.2
20	81.4	20	88.1	20	86.4	20	88.5
19	75.1	19	79.8	19	77.6	19	79.3
18	64.7	18	68.8	18	65.4	18	68.4
17	54.8	17	55.8	17	50	17	53.4
16	42.9	16	40.1	16	34.7	16	40
15	31.9	15	26.3	15	20.6	15	28.3
14	21.2	14	15.9	14	10.6	14	17.7
13	14.1	13	7.5	13	4.7	13	9.3
12	7.5	12	3.2	12	1.7	12	4.7
11	4.2	11	0.9	11	0.4	11	2
10	1.9	10	0.2	10	0.1	10	0.8
9	1	9	0	9	0	9	0.3
8	0.4	8	0	8	0	8	0.1
7	0.2	7	0	7	0	7	0
6	0.1	6	0	6	0	6	0
5	0.1	5	0	5	0	5	0
4	0.1	4	0	4	0	4	0
3	0.1	3	0	3	0	3	0
2	0	2	0	2	0	2	0
1	0	1	0	1	0	1	0
Mean	17.34	Mean	17.25	Mean	17.60	Mean	17.19