

Comparing MAT to GRE[®] Scores 2012–13

The many graduate schools and programs that accept either *Miller Analogies Test*[™] (MAT) or *Graduate Record Examinations*[®] (GRE) General Test scores as part of their admission requirements may find it useful to be able to compare scores from these two tests. One way to make these comparisons is through the psychometric analysis known as linear equating. This method uses scaled score means and standard deviations to determine equivalencies between scaled scores from two different tests with similar constructs.

Mean scaled score and standard deviation information published by NCS Pearson, Inc. in the 2012 edition of the *MAT*[™] *Technical Manual* (effective January 2013) and by the Educational Testing Service in the 2012 edition of the *GRE*[®] *Guide to the Use of Scores 2012–13* have been used to link MAT and GRE Verbal Reasoning scores. The reasonableness of this method is based on assumptions of similarity: both the MAT and the GRE Verbal Reasoning assessment are designed to assess the same cognitive ability in graduate school applicants, and both measures are similarly related to subsequent academic success.

Of the GRE General Test subtests, the content included on the GRE Verbal Reasoning measure is most similar in construct to the analogy items on the MAT (i.e., comprehending, analyzing, evaluating, and making inferences from concepts represented as words). Because of obvious construct differences, no attempt has been made to compare MAT scores to either GRE Quantitative Reasoning or GRE Analytic Writing scores.

The tables on the reverse side provide comparable scores for the MAT and the GRE Verbal Reasoning test. However, because of limitations inherent in any method used to determine such comparisons, the scores cannot be assumed to be equivalent or interchangeable. One limitation relates to the different item content and formats included on the two tests. Another limitation relates to the difference in scaled score ranges for the MAT (200–600) and the GRE Verbal Reasoning measure (130–170).

Nevertheless, the score comparisons displayed here can be useful in comparing a score earned on one with a score earned on the other test, which may be helpful in assessing candidates applying to a graduate program.

MAT to GRE Verbal Reasoning Scaled Score (SS) and Percentile Rank (PR) Comparisons

MAT		GRE Verbal Reasoning	
SS	PR	SS	PR
≤342	1	130	
343	1	131	1
344	1	131	1
345	1	131	1
346	1	132	1
347	1	132	1
348	1	132	1
349	1	133	1
350	1	133	1
351	1	134	2
352	1	134	2
353	1	134	2
354	1	135	3
355	2	135	3
356	2	135	3
357	2	136	4
358	3	136	4
359	3	136	4
360	3	137	5
361	4	137	5
362	4	137	5
363	5	138	6
364	5	138	6
365	6	139	8
366	7	139	8
367	7	139	8
368	8	140	10
369	9	140	10
370	10	140	10
371	11	141	12
372	12	141	12
373	13	141	12
374	14	142	15
375	15	142	15
376	16	143	18
377	18	143	18
378	19	143	18
379	20	144	21
380	22	144	21

MAT		GRE Verbal Reasoning	
SS	PR	SS	PR
381	23	144	21
382	25	145	24
383	26	145	24
384	28	145	24
385	29	146	28
386	31	146	28
387	33	146	28
388	34	147	32
389	36	147	32
390	38	148	36
391	39	148	36
392	41	148	36
393	43	149	40
394	45	149	40
395	46	149	40
396	48	150	44
397	50	150	44
398	52	150	44
399	53	151	49
400	55	151	49
401	57	151	49
402	58	152	53
403	60	152	53
404	61	153	57
405	63	153	57
406	64	153	57
407	66	154	61
408	67	154	61
409	69	154	61
410	70	155	65
411	72	155	65
412	73	156	69
413	74	156	69
414	75	156	69
415	76	157	73
416	77	157	73
417	78	157	73
418	79	158	77
419	80	158	77

MAT		GRE Verbal Reasoning	
SS	PR	SS	PR
420	81	158	77
421	82	159	80
422	83	159	80
423	84	159	80
424	85	160	83
425	86	160	83
426	87	160	83
427	88	161	86
428	89	161	86
429	89	162	89
430	90	162	89
431	91	162	89
432	91	163	91
433	92	163	91
434	92	163	91
435	93	164	93
436	93	164	93
437	94	165	95
438	94	165	95
439	94	165	95
440	95	166	96
441	95	166	96
442	95	166	96
443	96	167	97
444	96	167	97
445	96	167	97
446	97	168	98
447	97	168	98
448	97	168	98
449	97	169	99
450	98	169	99
≥451	98	170	99