

## Section H

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## H1: 2013 VTAC Scaled Study Scores

VCAA provides VTAC with study scores (relative positions). These study scores are scaled in order to calculate scaled aggregates and Australian Tertiary Admission Ranks (ATARs). Candidates are in the 2013 scaling population if, excluding small studies, they have obtained at least one VCAA study score in 2013, at least four in total, at least one in an English study [English, English as an Additional Language (EAL), English Language or Literature], but do not already have an ATAR. The scaling population is therefore a subset of the entire population. The means and standard deviations below pertain to the scaling population in 2013.

The following table gives the 2013 scaled means and standard deviations as well as the VTAC scaled study scores (rounded to the nearest integer) corresponding to the study scores of 20, 25, 30, 35, 40, 45 and 50. The formal aggregation process uses VTAC scaled study scores to two decimal places, but the following information gives an indication of how scaling adjusts scores in the various studies.

2013 Study	Mean	St. Dev.	20	25	30	35	40	45	50
Accounting	30.6	7.2	19	25	30	36	41	46	50
Agricultural & Horticultural Studies	25.8	6.8	15	19	24	29	35	41	50
Art	26.9	7.7	15	20	26	32	38	45	50
Biology	30.6	7.2	20	25	31	36	41	46	50
Business Management	26.7	7.2	16	21	26	32	37	44	50
Chemistry	34.0	7.3	23	29	34	39	44	48	50
Classical Studies	30.9	7.8	18	24	30	36	42	47	50
Dance	29.5	6.8	20	25	30	35	40	45	50
Product Design and Technology	24.3	7.1	13	18	23	28	34	42	50
Drama	28.3	7.5	17	22	27	33	39	45	50
Economics	32.0	7.0	21	27	32	37	42	46	50
English	28.2	7.5	17	22	28	33	39	45	50
English (EAL)	29.0	8.0	17	22	29	35	41	46	50
English Language	32.1	7.3	21	27	32	38	42	47	50
Environmental Science	28.3	7.1	18	23	28	34	39	45	50
Food and Technology	23.9	7.0	14	18	23	28	34	42	50
Geography	29.5	7.1	19	24	29	34	39	45	50
Health and Human Development	26.3	7.2	16	20	26	31	37	44	50
<b>History:</b>									
Australian History	28.7	8.0	16	22	28	34	40	46	50
Renaissance Italy	32.3	8.0	19	26	32	38	44	48	50
Revolutions	29.8	7.6	18	24	29	35	41	46	50
Industry & Enterprise Studies	23.5	7.0	11	15	20	26	33	41	50
<b>Information Technology:</b>									
Software Development	27.7	6.8	18	22	27	33	38	44	50
IT Applications	25.7	7.1	15	20	24	30	36	42	50
<b>Politics:</b>									
Australian Politics	32.4	6.7	22	27	33	38	42	47	50
Global Politics	32.8	7.4	20	27	33	38	43	47	50
Legal Studies	28.5	7.6	17	23	28	34	40	45	50
Literature	31.0	7.2	20	26	31	36	41	46	50
<b>Languages:</b>									
Albanian	No candidates for scaling in 2013								
Arabic	29.2	6.8	20	25	30	34	39	44	50
Armenian	Small Study, see Notes 1 & 2 below								
Auslan	31.5	6.3	21	26	31	36	41	45	50
Bosnian	28.0	6.6	18	23	28	33	38	44	50
Chinese (FL)	35.4	7.5	21	28	34	40	45	48	50
Chinese (SL)	40.3	6.8	30	36	41	46	49	52	54
Chinese (SL Advanced)	37.9	7.4	27	33	39	44	48	51	53
Classical Greek	45.0	6.8	32	40	46	50	53	54	55
Classical Hebrew	No candidates for scaling in 2013								
Croatian	31.9	5.2	24	28	31	35	39	43	50
Dutch	Small Study, see Notes 1 & 2 below								
Filipino	32.0	5.8	22	27	32	37	42	46	50
French	40.6	6.6	30	36	41	45	49	52	54
German	38.8	6.8	28	34	39	44	48	50	52
Greek	34.7	6.5	24	30	35	40	44	48	50
Hebrew	43.1	6.5	31	38	44	48	51	54	55
Hindi	32.9	7.4	19	26	33	39	44	48	50
Hungarian	Small Study, see Notes 1 & 2 below								
Indigenous Languages of Victoria	Small Study, see Notes 1 & 2 below								
Indonesian (FL)	34.5	8.0	20	27	33	39	44	48	51
Indonesian (SL)	36.8	6.9	26	32	37	42	46	49	50
Italian	36.6	6.6	26	32	37	42	45	48	50
Japanese (FL)	30.0	8.3	18	23	29	35	40	45	50
Japanese (SL)	38.4	6.6	28	34	39	43	47	50	52
Khmer	28.3	6.8	17	22	27	32	38	44	50
Korean (FL)	33.9	7.4	20	27	33	39	44	48	50
Korean (SL)	37.3	7.2	24	32	38	43	47	50	52
Latin	45.0	6.2	35	41	46	50	52	54	55
Macedonian	31.4	7.2	22	27	32	36	40	45	50
Maltese	Small Study, see Notes 1 & 2 below								

2013 Study	Mean	St. Dev.	20	25	30	35	40	45	50
Persian	30.1	6.5	19	24	30	35	41	46	50
Polish	34.3	6.8	25	30	35	40	44	47	50
Portuguese	33.3	8.6	17	26	35	42	47	50	50
Punjabi	31.6	6.7	21	27	33	38	43	47	50
Romanian	Small Study, see Notes 1 & 2 below								
Russian	37.6	5.9	28	34	38	42	45	48	50
Serbian	32.4	9.7	20	26	33	40	45	49	52
Sinhala	34.5	6.6	26	31	36	40	44	47	50
Spanish	34.3	7.4	23	29	35	40	45	48	50
Swedish	Small Study, see Notes 1 & 2 below								
Tamil	Small Study, see Notes 1 & 2 below								
Turkish	29.2	7.3	18	23	28	34	40	45	50
Ukrainian	Small Study, see Notes 1 & 2 below								
Vietnamese	34.1	6.7	22	28	34	39	44	47	50
Yiddish	No candidates for scaling in 2013								
<b>Mathematics:</b>									
Further Mathematics	27.9	7.0	18	23	28	33	38	44	50
Mathematical Methods (CAS)	35.1	8.5	22	29	36	42	47	50	52
Specialist Mathematics	41.3	8.2	28	36	43	48	51	54	55
Media	26.4	7.3	15	20	25	31	37	44	50
<b>Music:</b>									
Music Performance	29.6	7.2	19	24	29	35	40	45	50
Music Investigation	30.0	7.1	19	24	30	35	41	46	50
Music Styles and Composition	31.2	7.3	19	25	31	36	42	46	50
Outdoor and Environmental Studies	24.9	6.8	15	19	24	29	35	42	50
Philosophy	30.0	7.8	18	24	30	36	41	46	50
Physical Education	27.5	7.1	17	22	27	32	38	44	50
Physics	32.1	7.3	21	26	32	38	42	47	50
Psychology	28.2	7.3	17	23	28	33	39	45	50
Religion and Society	29.7	7.3	19	24	30	35	40	45	50
Sociology	25.7	7.5	14	19	25	31	37	44	50
Studio Arts	26.1	7.2	15	20	25	31	37	43	50
Systems Engineering	24.4	6.5	15	19	23	28	34	40	50
Texts and Traditions	30.4	6.9	20	25	30	35	40	45	50
Theatre Studies	28.8	7.4	18	24	29	35	40	45	50
Visual Communication Design	26.9	7.2	16	21	26	31	37	43	50
<b>VCE VET:</b>									
VCE VET Business	25.3	7.0	14	19	24	29	35	42	50
VCE VET Community Services	23.4	6.7	13	17	22	27	33	40	50
VCE VET Dance	26.5	6.5	20	23	27	31	35	41	50
VCE VET Engineering Studies	24.7	5.9	17	21	25	29	34	40	50
VCE VET Equine Industry	26.7	6.5	15	20	25	31	37	43	50
VCE VET Financial Services	No candidates for scaling in 2013								
VCE VET Furnishing	24.0	6.2	18	21	25	30	34	40	50
VCE VET Hospitality	25.4	6.9	15	19	24	30	36	42	50
VCE VET Hospitality – Kitchen Operations	25.4	6.4	16	20	24	29	35	41	50
VCE VET Information Technology	24.6	6.4	14	18	23	28	33	40	50
VCE VET Integrated Technologies	23.1	5.7	14	18	22	27	33	40	50
VCE VET Interactive Digital Media	25.8	6.5	17	21	25	30	35	41	50
VCE VET Laboratory Skills	29.6	6.6	18	24	31	37	43	47	50
VCE VET Music	25.8	6.7	17	21	25	29	34	40	50
VCE VET Sport and Recreation	24.1	6.6	15	19	23	28	33	40	50
VCE VET Technical Production	26.8	6.5	18	22	26	31	36	41	50

**NOTES:**

1. Small Studies were not scaled by the automatic procedure, since their eligible scaling population was less than or equal to ten. The means and standard deviations are not given in these cases, since they are not as useful.
2. For small Languages, the Language adjustment is the maximum of zero and the average Language adjustment over the previous three years. The following table gives the VTAC Scaled Study Scores for small Languages in 2013.

Small Language Study Score	1	2	3	4	5	6	7	8	9	10
2013 VTAC Scaled Study Score	1.0	2.0	3.1	4.3	5.5	6.7	7.9	9.2	10.4	11.7
Small Language Study Score	11	12	13	14	15	16	17	18	19	20
2013 VTAC Scaled Study Score	13.0	14.3	15.5	16.8	18.1	19.3	20.6	21.8	23.0	24.2
Small Language Study Score	21	22	23	24	25	26	27	28	29	30
2013 VTAC Scaled Study Score	25.4	26.6	27.8	28.9	30.1	31.2	32.3	33.4	34.4	35.4
Small Language Study Score	31	32	33	34	35	36	37	38	39	40
2013 VTAC Scaled Study Score	36.4	37.4	38.4	39.3	40.3	41.1	42.0	42.9	43.7	44.5
Small Language Study Score	41	42	43	44	45	46	47	48	49	50
2013 VTAC Scaled Study Score	45.3	46.1	46.8	47.5	48.2	48.8	49.4	50.0	50.5	50.9

## H2: 2013 Scaled Aggregate Table

Based on the 2013 scaling and aggregation process, the following table gives an indication of the minimum scaled aggregate required to achieve at least a particular ATAR. The table can be used to check roughly an ATAR calculation.

ATAR	Min Scaled Aggregate for ATAR
40.00	91.3
45.00	96.7
50.00	102.6
55.00	108.5
60.00	114.6
62.00	117.0
64.00	119.5
65.00	120.8
66.00	122.1
68.00	124.6
70.00	127.2
72.00	129.8
74.00	132.4
75.00	133.9
76.00	135.2
78.00	138.2
80.00	141.2
82.00	144.1
84.00	147.4
85.00	149.3
86.00	151.4
88.00	155.4
90.00	159.8
91.00	162.3
92.00	164.6
93.00	167.3
94.00	170.1
95.00	173.3
96.00	176.8
97.00	181.0
97.50	183.4
98.00	186.0
98.50	189.6
99.00	193.8
99.25	196.4
99.50	199.8
99.60	201.2
99.70	203.2
99.80	205.3
99.90	208.2

## Information on the 2013 Scaling and Aggregation Process

In the 2013 scaling and aggregation process, correct as of 6 January 2014:

- 46,848 students received a scaled aggregate and an ATAR, with
  - ❖ 24,473 (52.24%) having six results contribute to their ATAR
  - ❖ 19,255 (41.10%) having five results contribute to their ATAR
  - ❖ 3,120 (6.66%) having four results contribute to their ATAR
- 1,059 VTAC scaled study scores above 50 were used in aggregation, with
  - ❖ 946 being for results in 2013 studies
  - ❖ 99 being for results in 2012 studies
  - ❖ 14 being for results in 2011 studies or earlier
- 833 students (1.78% of those receiving an ATAR) used at least one VTAC scaled study score above 50 in their aggregate.
- 217 students (26.05% of those having at least one VTAC scaled study score above 50 and 0.46% of those receiving an ATAR) made use of more than one VTAC scaled study score above 50 in their aggregate.
- 415 students (0.89% of those receiving an ATAR) had a Higher Education Study result contribute to their aggregate
  - ❖ 47 (0.10%) being a contribution of 5.0
  - ❖ 130 (0.28%) being a contribution of 4.5
  - ❖ 141 (0.30%) being a contribution of 4.0
  - ❖ 79 (0.17%) being a contribution of 3.5, and
  - ❖ 18 (0.04%) being a contribution of 3.0
- 2,778 students (5.93% of those receiving an ATAR) had one VET / VFE increment – 10% of the average of the primary four aggregate – in their aggregate
- 1,072 students (2.29% of those receiving an ATAR) had two VET / VFE increments – each being 10% of the average of the primary four aggregate – in their aggregate.

To be more precise about VTAC scaled study scores above 50:

- ❖ in 616 cases only one VTAC scaled study score above 50 was available for aggregation, with
  - ◆ 539 instances of VTAC scaled study scores above 50 from 2013 studies
  - ◆ 70 instances of VTAC scaled study scores above 50 from 2012 studies
  - ◆ 7 instances of VTAC scaled study scores above 50 from 2011 studies or earlier
- ❖ in 208 cases two VTAC scaled study scores above 50 were available for aggregation, with
  - ◆ 180 combinations of two VTAC scaled study scores above 50 from 2013 studies
  - ◆ 28 combinations of one VTAC scaled study score above 50 from a 2013 study and one from an earlier study
- ❖ in 9 cases three VTAC scaled study scores above 50 were available for aggregation, with
  - ◆ 2 combinations of three VTAC scaled study scores above 50 from 2013 studies
  - ◆ 7 combinations of VTAC scaled study scores above 50 from 2013 studies and from earlier studies

## Analysis of VTAC Scaled Study Scores above 50

In detail, the 883 students making use of the 1,059 VTAC scaled study scores above 50 in their 2013 ATAR did so in the following combinations:

### Single Study:

<p>391 in Specialist Mathematics            390 achieved in 2013            1 achieved earlier</p> <p>73 in French            58 achieved in 2013            15 achieved earlier</p> <p>46 in Mathematical Methods            achieved in 2013</p> <p>28 in Chinese (SL)            2 achieved in 2013            26 achieved earlier</p> <p>24 in Latin            20 in achieved in 2013            4 achieved earlier</p> <p>14 in German            9 achieved in 2013            5 achieved earlier</p>	<p>13 in Japanese (SL)            5 achieved in 2013            8 achieved earlier</p> <p>11 in Hebrew            1 achieved in 2013            10 achieved earlier</p> <p>8 in Chinese (SL) Advanced            3 achieved in 2013            5 achieved earlier</p> <p>2 in Classical Greek            achieved in 2013</p> <p>1 in Chinese (FL)            achieved in 2013</p> <p>1 in Italian            achieved before 2013</p> <p>1 in Serbian            achieved in 2013</p>
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### Two Studies:

<p>145 in Specialist Mathematics and Mathematical Methods            144 with both in 2013 and            1 with Specialist Maths in 2013 and Math. Methods 2012</p> <p>14 in Specialist Mathematics and Latin            12 with both in 2013 and            1 with Specialist Mathematics in 2013 and Latin in 2012            1 with Specialist Mathematics in 2012 and Latin in 2013</p> <p>8 in Specialist Mathematics and French            7 with both in 2013            1 with Specialist Maths in 2013 and French in 2012</p> <p>13 in Specialist Mathematics and Chinese (SL)            1 with both in 2013            9 with Specialist Maths in 2013 and Chinese (SL) in 2012            3 with Specialist Maths in 2013 and Chinese (SL) in 2011</p> <p>4 in Specialist Mathematics and Chinese (SL) Advanced            4 with both in 2013</p> <p>2 in Specialist Mathematics and Japanese (SL)            1 with both in 2013            1 with Specialist Maths in 2013 and Japanese (SL) in 2012</p> <p>1 in Specialist Mathematics and German            1 with both in 2013</p> <p>1 in Specialist Mathematics and Korean (SL)            1 with Specialist Maths in 2013 and Korean (SL) in 2012</p> <p>1 in Specialist Mathematics and Hebrew            1 with Specialist Maths in 2013 and Hebrew in 2012</p>	<p>1 in Mathematical Methods and French            1 with both in 2013</p> <p>10 in Latin and French            9 with both in 2013            1 with Latin in 2012 and French in 2013</p> <p>1 in Latin and Chinese (SL)            1 with both in 2013</p> <p>2 in Latin and Classical Greek            2 with Latin in 2012 and Classical Greek in 2013</p> <p>1 in Latin and German            1 with both in 2013</p> <p>1 in French and Classical Greek            1 with both in 2013</p> <p>1 in French and German            1 with both in 2013</p> <p>1 in Chinese (SL) and Japanese (SL)            1 with Chinese (SL) in 2011 and Japanese (SL) in 2012</p> <p>1 in Chinese (SL) Advanced and Japanese (SL)            1 with Chinese (SL) adv. in 2011 and Japanese (SL) in 2013</p>
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### Three Studies:

<p>2 in Specialist Mathematics, Mathematical Methods and Latin            1 with all in 2013            1 with 2013 Spec. Math. &amp; Math Meth. &amp; 2012 Latin</p> <p>1 in Specialist Mathematics, Mathematical Methods and French            1 with all in 2013</p> <p>3 in Specialist Mathematics, Math. Methods and Chinese (SL)            3 with 2013 Spec. Math. &amp; Math. Meth. &amp; 2012 Chinese(SL)</p>	<p>1 in Specialist Mathematics, Math. Methods and Chinese (SL) Adv            1 with 2013 Spec. Math. &amp; Math. Meth. &amp; 2012 Chinese (SL) Advanced</p> <p>1 in Specialist Mathematics, Latin and French            1 with 2013 Spec. Math. &amp; French &amp; 2011 Latin</p> <p>1 in Specialist Mathematics, Latin and Chinese (SL)            1 with 2013 Spec. Math. &amp; Latin &amp; 2011 Chinese (SL) Adv</p>
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### H3: Individual Study Contribution to Highest VTAC scaled study score & the Primary Four

The following table gives the number of students (qualifying for a 2013 ATAR as of 6 January 2014) completing each study in 2013, together with the number and percentage of times a score in the study was 'best' and/or used in the 'primary 4' when calculating the 2013 ATAR (or ATAR aggregate).

2013 Study	Number of students achieving a 2013 VTAC Scaled Study Score and 2013 ATAR	Number of times score is Highest Contributor to 2013 ATAR			Number of times score is a P4 Contributor to 2013 ATAR		
		Score achieved in 2013	Score achieved before 2013	% of 2013 achievers where the 2013 VTAC Scaled Study Score was highest	Score achieved in 2013	Score achieved before 2013	% of 2013 achievers where the 2013 VTAC Scaled Study Score was in the P4
Accounting	4291	606	84	14.12	2679	331	62.43
Agricultural & Horticultural Studies	141	30	5	21.28	112	30	79.43
Art	1648	308	14	18.69	1215	58	73.73
Biology	8288	1203	330	14.51	5573	1605	67.24
Business Management	9988	1700	281	17.02	7493	1193	75.02
Chemistry	9169	724	10	7.90	4912	85	53.57
Classical Studies	383	60	1	15.67	300	29	78.33
Dance	225	54	35	24.00	173	114	76.89
Product Design And Technology	2385	495	65	20.75	1754	176	73.54
Drama	1008	203	25	20.14	739	118	73.31
Economics	2151	299	13	13.90	1436	54	66.76
English	38687	7451	73	19.26	38474	382	99.45
English (EAL)	2968	444	8	14.96	2968	28	100.00
English Language	2985	458	10	15.34	2951	54	98.86
Environmental Science	465	79	15	16.99	352	72	75.70
Food And Technology	2917	560	47	19.20	2228	189	76.38
Geography	1547	268	66	17.32	1099	311	71.04
Health And Human Development	10622	1758	258	16.55	7899	1049	74.36
History: Australian History	905	128	20	14.14	678	114	74.92
History: Renaissance Italy	175	28	4	16.00	123	15	70.29
History: Revolutions	4545	752	76	16.55	3358	459	73.88
Industry And Enterprise	121	20	4	16.53	93	13	76.86
Software Development	926	133	25	14.36	609	103	65.77
IT Applications	1804	314	85	17.41	1296	317	71.84
Legal Studies	7046	1131	157	16.05	5143	677	72.99
Literature	4740	664	55	14.01	4105	293	86.60
Languages: Albanian	0	0	1	-	0	1	-
Languages: Arabic	71	39	18	54.93	65	33	91.55
Languages: Armenian	1	0	1	0.00	1	1	100.00
Languages: Auslan	23	13	18	56.52	20	20	86.96
Languages: Bosnian	16	11	2	68.75	15	3	93.75
Languages: Chinese First Language	678	287	205	42.33	598	444	88.20
Languages: Chinese Second Language	361	120	262	33.24	249	417	68.98
Languages: Chinese Second Lang. Adv.	103	44	127	42.72	84	206	81.55
Languages: Classical Greek	19	10	1	52.63	18	4	94.74
Languages: Croatian	22	10	7	45.45	16	7	72.73
Languages: Dutch	5	3	0	60.00	4	4	80.00
Languages: Filipino	24	17	10	70.83	21	17	87.50
Languages: French	1688	821	91	48.64	1520	123	90.05
Languages: German	600	301	45	50.17	518	56	86.33
Languages: Greek	96	53	77	55.21	81	112	84.38
Languages: Hebrew	14	4	21	28.57	8	34	57.14
Languages: Hindi	18	13	10	72.22	17	18	94.44
Languages: Hungarian	1	0	4	0.00	1	6	100.00
Languages: Indonesian First Language	10	5	9	50.00	6	10	60.00
Languages: Indonesian Second Lang.	509	258	35	50.69	455	58	89.39
Languages: Italian	783	416	36	53.13	708	47	90.42
Languages: Japanese First Language	6	5	7	83.33	6	16	100.00
Languages: Japanese Second Language	940	445	58	47.34	817	92	86.91
Languages: Khmer	14	7	11	50.00	12	11	85.71
Languages: Korean First Language	5	1	10	20.00	5	22	100.00

2013 Study	Number of students achieving a 2013 VTAC Scaled Study Score and 2013 ATAR	Number of times score is Highest Contributor to 2013 ATAR			Number of times score is a P4 Contributor to 2013 ATAR		
		Score achieved in 2013	Score achieved before 2013	% of 2013 achievers where the 2013 VTAC Scaled Study Score was highest	Score achieved in 2013	Score achieved before 2013	% of 2013 achievers where the 2013 VTAC Scaled Study Score was in the P4
Languages: Korean Second Language	6	2	17	33.33	5	39	83.33
Languages: Latin	186	91	14	48.92	163	37	87.63
Languages: Macedonian	18	12	4	66.67	18	11	100.00
Languages: Persian	39	23	17	58.97	35	34	89.74
Languages: Polish	6	2	19	33.33	5	25	83.33
Languages: Portuguese	8	4	2	50.00	6	2	75.00
Languages: Punjabi	20	11	3	55.00	17	7	85.00
Languages: Romanian	6	6	4	100.00	6	5	100.00
Languages: Russian	4	3	13	75.00	3	16	75.00
Languages: Serbian	12	5	5	41.67	10	9	83.33
Languages: Sinhala	17	11	14	64.71	16	20	94.12
Languages: Spanish	70	37	20	52.86	49	25	70.00
Languages: Swedish	4	1	3	25.00	4	4	100.00
Languages: Tamil	2	2	4	100.00	2	6	100.00
Languages: Turkish	73	56	48	76.71	70	78	95.89
Languages: Ukrainian	2	1	2	50.00	2	3	100.00
Languages: Vietnamese	187	107	118	57.22	156	169	83.42
Languages: Yiddish	1	0	0	0.00	1	1	100.00
Maths: Further Mathematics	25600	5271	420	20.59	16893	1177	65.99
Maths: Mathematical Methods (CAS)	13782	3059	133	22.20	9666	876	70.13
Maths: Mathematical Methods (CAS) CBE	59	10	0	16.95	31	0	52.54
Maths: Specialist Mathematics	4031	1827	11	45.32	3514	20	87.17
Media	3584	623	45	17.38	2715	156	75.75
Music Investigation	195	40	8	20.51	133	25	68.21
Music Performance	1285	290	85	22.57	814	215	63.35
Music Style And Composition	119	15	2	12.61	72	15	60.50
Outdoor And Environmental Studies	1603	311	156	19.40	1211	484	75.55
Philosophy	761	133	11	17.48	580	43	76.22
Physical Education	7442	1148	158	15.43	5361	730	72.04
Physics	6726	466	10	6.93	3746	94	55.69
Australian Politics	238	31	1	13.03	172	8	72.27
Global Politics	1253	186	17	14.84	900	117	71.83
Psychology	11548	1759	295	15.23	8757	1647	75.83
Religion And Society	954	263	58	27.57	751	316	78.72
Sociology	546	74	18	13.55	444	57	81.32
Studio Arts	4302	916	82	21.29	3189	308	74.13
Systems Engineering	566	104	22	18.37	388	53	68.55
Texts and Traditions	315	78	34	24.76	208	95	66.03
Theatre Studies	711	128	27	18.00	541	145	76.09
Visual Communication Design	4775	947	72	19.83	3392	255	71.04
VCE VET Business	216	39	29	18.06	171	87	79.17
VCE VET Community Services	197	59	14	29.95	142	42	72.08
VCE VET Dance	84	34	11	40.48	65	26	77.38
VCE VET Engineering Studies	147	57	18	38.78	102	55	69.39
VCE VET Equine Industry	55	18	26	32.73	37	64	67.27
VCE VET Furnishing	53	31	0	58.49	50	0	94.34
VCE VET Hospitality	205	57	30	27.80	156	77	76.10
VCE VET Hospitality (Kitchen Operations)	268	80	33	29.85	188	111	70.15
VCE VET Information Technology	149	44	10	29.53	115	37	77.18
VCE VET Integrated Technologies	83	14	5	16.87	66	19	79.52
VCE VET Interactive Digital Media	510	123	54	24.12	358	146	70.20
VCE VET Laboratory Skills	18	5	5	27.78	12	10	66.67
VCE VET Music	203	54	21	26.60	137	43	67.49
VCE VET Sport And Recreation	718	155	0	21.59	509	0	70.89
VCE VET Technical Production	244	57	32	23.36	181	70	74.18

#### H4: Individual Study Contribution to Highest VTAC Scaled Study Score & the Primary Four For the top 10% of Students in Each Study

The following table gives the number of students in the top 10% for each study in 2013 and achieving an ATAR, together with the number and percentage of times the score in the study was 'best' and/or used in the 'primary four' when calculating the 2013 ATAR aggregate (correct as of 6 January 2014).

2013 Study	Number of students achieving a 2013 Study Score in the top 10% (i.e. > 38) and also a 2013 ATAR	No of times the VTAC Scaled Study Score was highest	Percentage where the VTAC Scaled Study Score was highest	Number of times the VTAC Scaled Study Score was in the Primary 4	Percentage where the VTAC Scaled Study Score was in the Primary 4
Accounting	382	104	27.23	289	75.65
Agricultural & Horticultural Studies	16	10	62.50	16	100.00
Art	196	82	41.84	176	89.80
Biology	576	141	24.48	424	73.61
Business Management	950	443	46.63	857	90.21
Chemistry	1042	119	11.42	705	67.66
Classical Studies	46	7	15.22	39	84.78
Dance	21	10	47.62	19	90.48
Product Design And Technology	295	161	54.58	273	92.54
Drama	128	48	37.50	114	89.06
Economics	236	68	28.81	193	81.78
English	4459	1482	33.24	4433	99.42
English (EAL)	344	89	25.87	344	100.00
English Language	341	94	27.57	341	100.00
Environmental Science	46	28	60.87	43	93.48
Food And Technology	305	161	52.79	283	92.79
Geography	149	70	46.98	137	91.95
Health And Human Development	1039	472	45.43	965	92.88
History: Australian History	98	33	33.67	90	91.84
History: Renaissance Italy	19	7	36.84	15	78.95
History: Revolutions	473	151	31.92	418	88.37
Industry And Enterprise	12	7	58.33	12	100.00
Software Development	70	29	41.43	59	84.29
IT Applications	172	94	54.65	150	87.21
Legal Studies	746	309	41.42	668	89.54
Literature	555	149	26.85	528	95.14
Languages: Albanian	0	0	-	0	-
Languages: Arabic	7	5	71.43	6	85.71
Languages: Armenian	0	0	-	0	-
Languages: Auslan	1	1	100.00	1	100.00
Languages: Bosnian	1	1	100.00	1	100.00
Languages: Chinese First Language	65	49	75.38	65	100.00
Languages: Chinese Second Language	11	5	45.45	11	100.00
Languages: Chinese Second Lang. Adv.	8	7	87.50	8	100.00
Languages: Classical Greek	2	2	100.00	2	100.00
Languages: Croatian	3	2	66.67	3	100.00
Languages: Dutch	1	1	100.00	1	100.00
Languages: Filipino	2	2	100.00	2	100.00
Languages: French	182	137	75.27	180	98.90
Languages: German	62	44	70.97	62	100.00
Languages: Greek	7	6	85.71	7	100.00
Languages: Hebrew	0	0	-	0	-
Languages: Hindi	0	0	-	0	-
Languages: Hungarian	0	0	-	0	-
Languages: Indonesian First Language	2	2	100.00	2	100.00
Languages: Indonesian Second Lang.	51	35	68.63	49	96.08
Languages: Italian	73	44	60.27	69	94.52
Languages: Japanese First Language	3	3	100.00	3	100.00
Languages: Japanese Second Language	79	44	55.70	75	94.94
Languages: Khmer	2	1	50.00	2	100.00
Languages: Korean First Language	1	1	100.00	1	100.00
Languages: Korean Second Language	0	0	-	0	-

2013 Study	Number of students achieving a 2013 Study Score in the top 10% (i.e. > 38) and also a 2013 ATAR	No of times the VTAC Scaled Study Score was highest	Percentage where the VTAC Scaled Study Score was highest	Number of times the VTAC Scaled Study Score was in the Primary 4	Percentage where the VTAC Scaled Study Score was in the Primary 4
Languages: Latin	25	18	72.00	25	100.00
Languages: Macedonian	3	3	100.00	3	100.00
Languages: Persian	3	2	66.67	3	100.00
Languages: Polish	1	0	0.00	1	100.00
Languages: Portuguese	1	0	0.00	1	100.00
Languages: Punjabi	1	1	100.00	1	100.00
Languages: Romanian	1	1	100.00	1	100.00
Languages: Russian	0	0	-	0	-
Languages: Serbian	2	1	50.00	2	100.00
Languages: Sinhala	2	2	100.00	2	100.00
Languages: Spanish	9	5	55.56	7	77.78
Languages: Swedish	0	0	-	0	-
Languages: Tamil	0	0	-	0	-
Languages: Turkish	7	7	100.00	7	100.00
Languages: Ukrainian	0	0	-	0	-
Languages: Vietnamese	23	17	73.91	21	91.30
Languages: Yiddish	0	0	-	0	-
Maths: Further Mathematics	2469	907	36.74	2056	83.27
Maths: Mathematical Methods (CAS)	1253	478	38.15	1210	96.57
Maths: Mathematical Methods (CAS) CBE	1	0	0.00	1	100.00
Maths: Specialist Mathematics	461	431	93.49	461	100.00
Media	421	198	47.03	388	92.16
Music Investigation	21	10	47.62	19	90.48
Music Performance	92	40	43.48	75	81.52
Music Style And Composition	16	4	25.00	13	81.25
Outdoor And Environmental Studies	145	92	63.45	135	93.10
Philosophy	80	25	31.25	72	90.00
Physical Education	752	297	39.49	662	88.03
Physics	747	46	6.16	503	67.34
Australian Politics	26	9	34.62	25	96.15
Global Politics	143	49	34.27	134	93.71
Psychology	1067	386	36.18	952	89.22
Religion And Society	105	52	49.52	94	89.52
Sociology	51	19	37.25	49	96.08
Studio Arts	488	242	49.59	445	91.19
Systems Engineering	50	25	50.00	36	72.00
Texts and Traditions	37	17	45.95	32	86.49
Theatre Studies	74	34	45.95	64	86.49
Visual Communication Design	559	262	46.87	503	89.98
VCE VET Business	23	14	60.87	22	95.65
VCE VET Community Services	29	20	68.97	29	100.00
VCE VET Dance	14	13	92.86	14	100.00
VCE VET Engineering Studies	21	13	61.90	18	85.71
VCE VET Equine Industry	5	4	80.00	5	100.00
VCE VET Furnishing	11	6	54.55	8	72.73
VCE VET Hospitality	27	19	70.37	26	96.30
VCE VET Hospitality (Kitchen Operations)	34	23	67.65	32	94.12
VCE VET Information Technology	22	12	54.55	22	100.00
VCE VET Integrated Technologies	7	4	57.14	6	85.71
VCE VET Interactive Digital Media	53	27	50.94	45	84.91
VCE VET Laboratory Skills	0	0	-	0	-
VCE VET Music	26	10	38.46	22	84.62
VCE VET Sport And Recreation	77	42	54.55	73	94.81
VCE VET Technical Production	35	16	45.71	30	85.71

### H5: Individual Study Contribution to Highest VTAC Scaled Study Score & the Primary Four For the top 5% of Students in Each Study

The following table gives the number of students in the top 5% for each study in 2013 and achieving an ATAR, together with the number and percentage of times the score in the study was 'best' and/or used in the 'primary four' when calculating the 2013 ATAR aggregate (correct as of 6 January 2014).

2013 Study	Number of students achieving a 2013 Study Score in the top 5% (i.e. > 41) and also a 2013 ATAR	No of times the VTAC Scaled Study Score was highest	Percentage where the VTAC Scaled Study Score was highest	Number of times the VTAC Scaled Study Score was in the Primary 4	Percentage where the VTAC Scaled Study Score was in the Primary 4
Accounting	164	53	32.32	133	81.10
Agricultural & Horticultural Studies	10	8	80.00	10	100.00
Art	90	47	52.22	83	92.22
Biology	233	72	30.90	187	80.26
Business Management	418	257	61.48	390	93.30
Chemistry	468	60	12.82	333	71.15
Classical Studies	21	2	9.52	18	85.71
Dance	11	7	63.64	11	100.00
Product Design And Technology	134	94	70.15	129	96.27
Drama	56	20	35.71	51	91.07
Economics	103	34	33.01	92	89.32
English	2007	799	39.81	1992	99.25
English (EAL)	155	41	26.45	155	100.00
English Language	154	50	32.47	154	100.00
Environmental Science	24	16	66.67	22	91.67
Food And Technology	133	84	63.16	127	95.49
Geography	72	41	56.94	70	97.22
Health And Human Development	446	239	53.59	418	93.72
History: Australian History	44	16	36.36	39	88.64
History: Renaissance Italy	9	4	44.44	7	77.78
History: Revolutions	204	86	42.16	189	92.65
Industry And Enterprise	7	5	71.43	7	100.00
Software Development	31	17	54.84	27	87.10
IT Applications	75	50	66.67	67	89.33
Legal Studies	323	162	50.15	304	94.12
Literature	249	79	31.73	240	96.39
Languages: Albanian	0	0	-	0	-
Languages: Arabic	4	3	75.00	3	75.00
Languages: Armenian	0	0	-	0	-
Languages: Auslan	1	1	100.00	1	100.00
Languages: Bosnian	0	0	-	0	-
Languages: Chinese First Language	26	18	69.23	26	100.00
Languages: Chinese Second Language	4	3	75.00	4	100.00
Languages: Chinese Second Lang. Adv.	3	3	100.00	3	100.00
Languages: Classical Greek	1	1	100.00	1	100.00
Languages: Croatian	1	1	100.00	1	100.00
Languages: Dutch	0	0	-	0	-
Languages: Filipino	1	1	100.00	1	100.00
Languages: French	80	66	82.50	80	100.00
Languages: German	29	22	75.86	29	100.00
Languages: Greek	3	3	100.00	3	100.00
Languages: Hebrew	0	0	-	0	-
Languages: Hindi	0	0	-	0	-
Languages: Hungarian	0	0	-	0	-
Languages: Indonesian First Language	1	1	100.00	1	100.00
Languages: Indonesian Second Lang.	21	17	80.95	21	100.00
Languages: Italian	26	19	73.08	25	96.15
Languages: Japanese First Language	2	2	100.00	2	100.00
Languages: Japanese Second Language	29	17	58.62	28	96.55
Languages: Khmer	2	1	50.00	2	100.00
Languages: Korean First Language	0	0	-	0	-
Languages: Korean Second Language	0	0	-	0	-

2013 Study	Number of students achieving a 2013 Study Score in the top 5% (i.e. > 41) and also a 2013 ATAR	No of times the VTAC Scaled Study Score was highest	Percentage where the VTAC Scaled Study Score was highest	Number of times the VTAC Scaled Study Score was in the Primary 4	Percentage where the VTAC Scaled Study Score was in the Primary 4
Languages: Latin	12	8	66.67	12	100.00
Languages: Macedonian	2	2	100.00	2	100.00
Languages: Persian	0	0	-	0	-
Languages: Polish	0	0	-	0	-
Languages: Portuguese	0	0	-	0	-
Languages: Punjabi	1	1	100.00	1	100.00
Languages: Romanian	1	1	100.00	1	100.00
Languages: Russian	0	0	-	0	-
Languages: Serbian	1	1	100.00	1	100.00
Languages: Sinhala	1	1	100.00	1	100.00
Languages: Spanish	3	3	100.00	3	100.00
Languages: Swedish	0	0	-	0	-
Languages: Tamil	0	0	-	0	-
Languages: Turkish	3	3	100.00	3	100.00
Languages: Ukrainian	0	0	-	0	-
Languages: Vietnamese	7	6	85.71	6	85.71
Languages: Yiddish	0	0	-	0	-
Maths: Further Mathematics	1066	450	42.21	931	87.34
Maths: Mathematical Methods (CAS)	534	201	37.64	526	98.50
Maths: Mathematical Methods (CAS) CBE	0	0	-	0	-
Maths: Specialist Mathematics	206	204	99.03	206	100.00
Media	188	104	55.32	184	97.87
Music Investigation	8	6	75.00	8	100.00
Music Performance	34	18	52.94	31	91.18
Music Style And Composition	6	3	50.00	6	100.00
Outdoor And Environmental Studies	71	56	78.87	68	95.77
Philosophy	41	14	34.15	36	87.80
Physical Education	326	161	49.39	305	93.56
Physics	336	19	5.65	233	69.35
Australian Politics	11	5	45.45	11	100.00
Global Politics	67	32	47.76	65	97.01
Psychology	464	206	44.40	436	93.97
Religion And Society	53	32	60.38	49	92.45
Sociology	19	11	57.89	19	100.00
Studio Arts	217	134	61.75	206	94.93
Systems Engineering	22	14	63.64	18	81.82
Texts and Traditions	14	7	50.00	11	78.57
Theatre Studies	30	18	60.00	29	96.67
Visual Communication Design	254	151	59.45	233	91.73
VCE VET Business	13	9	69.23	13	100.00
VCE VET Community Services	13	9	69.23	13	100.00
VCE VET Dance	14	13	92.86	14	100.00
VCE VET Engineering Studies	9	6	66.67	8	88.89
VCE VET Equine Industry	3	3	100.00	3	100.00
VCE VET Furnishing	5	2	40.00	4	80.00
VCE VET Hospitality	11	6	54.55	11	100.00
VCE VET Hospitality (Kitchen Operations)	15	9	60.00	15	100.00
VCE VET Information Technology	10	6	60.00	10	100.00
VCE VET Integrated Technologies	4	3	75.00	3	75.00
VCE VET Interactive Digital Media	23	16	69.57	22	95.65
VCE VET Laboratory Skills	0	0	-	0	-
VCE VET Music	13	8	61.54	12	92.31
VCE VET Sport And Recreation	34	26	76.47	34	100.00
VCE VET Technical Production	14	9	64.29	12	85.71

## H6: Languages Contribution to the Highest ATAR Scaled Score & the Primary Four

The following table gives the number of students completing each study in 2013 and qualifying for an ATAR, the number and percentage of times students doing the study also had a Language result, and the number and percentage of times the score in the Language was 'best' and/or used in the 'primary four' when calculating the 2013 ATAR aggregate (correct as of 6 January 2014).

2013 Study	Number of students achieving a 2013 Study Score and 2013 ATAR	Number of those students with a numeric VCE Language result from any year	% of Students	Number of students where Language VTAC Scaled Study Score was highest	% of Students	% of students with a VCE Language	Number of students where Language VTAC Scaled Study Score in the Primary 4	% of students	% of students with a Language
Accounting	4897	1194	24.38	576	11.76	48.24	1033	21.09	86.52
Agricultural & Horticultural Studies	188	7	3.72	6	3.19	85.71	7	3.72	100.00
Art	1758	204	11.60	130	7.39	63.73	188	10.69	92.16
Biology	11290	2054	18.19	1103	9.77	53.70	1779	15.76	86.61
Business Management	11978	1206	10.07	699	5.84	57.96	1056	8.82	87.56
Chemistry	9328	2929	31.40	1328	14.24	45.34	2424	25.99	82.76
Classical Studies	449	102	22.72	68	15.14	66.67	95	21.16	93.14
Dance	451	62	13.75	32	7.10	51.61	52	11.53	83.87
Product Design And Technology	2684	179	6.67	119	4.43	66.48	166	6.18	92.74
Drama	1226	185	15.09	97	7.91	52.43	158	12.89	85.41
Economics	2279	434	19.04	240	10.53	55.30	377	16.54	86.87
English	39086	5548	14.19	2863	7.32	51.60	4805	12.29	86.61
English (EAL)	2996	2161	72.13	1125	37.55	52.06	1893	63.18	87.60
English Language	3047	811	26.62	414	13.59	51.05	693	22.74	85.45
Environmental Science	624	63	10.10	29	4.65	46.03	55	8.81	87.30
Food And Technology	3225	218	6.76	132	4.09	60.55	201	6.23	92.20
Geography	2107	242	11.49	136	6.45	56.20	218	10.35	90.08
Health And Human Development	12398	975	7.86	578	4.66	59.28	877	7.07	89.95
History: Australian History	1093	118	10.80	51	4.67	43.22	108	9.88	91.53
History: Renaissance Italy	208	49	23.56	26	12.50	53.06	41	19.71	83.67
History: Revolutions	5357	862	16.09	475	8.87	55.10	784	14.64	90.95
Industry And Enterprise	140	5	3.57	3	2.14	60.00	4	2.86	80.00
Software Development	1138	101	8.88	53	4.66	52.48	80	7.03	79.21
IT Applications	2356	223	9.47	131	5.56	58.74	202	8.57	90.58
Legal Studies	8218	1058	12.87	558	6.79	52.74	923	11.23	87.24
Literature	5172	1022	19.76	525	10.15	51.37	901	17.42	88.16
Languages: Albanian	1	1	100.00	1	100.00	100.00	1	100.00	100.00
Languages: Arabic	117	117	100.00	60	51.28	51.28	99	84.62	84.62
Languages: Armenian	4	4	100.00	1	25.00	25.00	2	50.00	50.00
Languages: Auslan	46	46	100.00	33	71.74	71.74	41	89.13	89.13
Languages: Bosnian	20	20	100.00	13	65.00	65.00	18	90.00	90.00
Languages: Chinese First Language	1235	1235	100.00	499	40.40	40.40	1046	84.70	84.70
Languages: Chinese Second Language	819	819	100.00	428	52.26	52.26	689	84.13	84.13
Languages: Chinese Second Lang. Adv.	370	370	100.00	193	52.16	52.16	300	81.08	81.08
Languages: Classical Greek	23	23	100.00	13	56.52	56.52	22	95.65	95.65
Languages: Croatian	29	29	100.00	22	75.86	75.86	26	89.66	89.66
Languages: Dutch	10	10	100.00	4	40.00	40.00	8	80.00	80.00
Languages: Filipino	45	45	100.00	29	64.44	64.44	39	86.67	86.67
Languages: French	1815	1815	100.00	990	54.55	54.55	1654	91.13	91.13
Languages: German	659	659	100.00	371	56.30	56.30	580	88.01	88.01
Languages: Greek	226	226	100.00	142	62.83	62.83	197	87.17	87.17
Languages: Hebrew	51	51	100.00	26	50.98	50.98	43	84.31	84.31
Languages: Hindi	38	38	100.00	24	63.16	63.16	35	92.11	92.11
Languages: Hungarian	7	7	100.00	4	57.14	57.14	7	100.00	100.00
Languages: Indonesian First Language	24	24	100.00	14	58.33	58.33	16	66.67	66.67
Languages: Indonesian Second Lang.	577	577	100.00	299	51.82	51.82	516	89.43	89.43
Languages: Italian	839	839	100.00	477	56.85	56.85	760	90.58	90.58
Languages: Japanese First Language	30	30	100.00	12	40.00	40.00	22	73.33	73.33
Languages: Japanese Second Language	1040	1040	100.00	558	53.65	53.65	923	88.75	88.75
Languages: Khmer	25	25	100.00	20	80.00	80.00	24	96.00	96.00
Languages: Korean First Language	31	31	100.00	15	48.39	48.39	29	93.55	93.55
Languages: Korean Second Language	50	50	100.00	33	66.00	66.00	48	96.00	96.00
Languages: Latin	239	239	100.00	126	52.72	52.72	212	88.70	88.70
Languages: Macedonian	34	34	100.00	18	52.94	52.94	29	85.29	85.29
Languages: Persian	83	83	100.00	40	48.19	48.19	70	84.34	84.34
Languages: Polish	32	32	100.00	23	71.88	71.88	30	93.75	93.75
Languages: Portuguese	12	12	100.00	7	58.33	58.33	8	66.67	66.67
Languages: Punjabi	28	28	100.00	14	50.00	50.00	24	85.71	85.71
Languages: Romanian	11	11	100.00	10	90.91	90.91	11	100.00	100.00
Languages: Russian	30	30	100.00	18	60.00	60.00	20	66.67	66.67
Languages: Serbian	23	23	100.00	10	43.48	43.48	19	82.61	82.61
Languages: Sinhala	40	40	100.00	25	62.50	62.50	36	90.00	90.00
Languages: Spanish	99	99	100.00	66	66.67	66.67	80	80.81	80.81
Languages: Swedish	9	9	100.00	4	44.44	44.44	8	88.89	88.89
Languages: Tamil	14	14	100.00	6	42.86	42.86	8	57.14	57.14

2013 Study	Number of students achieving a 2013 Study Score and 2013 ATAR	Number of those students with a numeric VCE Language result from any year	% of Students	Number of students where Language VTAC Scaled Study Score was highest	% of Students	% of students with a VCE Language	Number of students where Language VTAC Scaled Study Score in the Primary 4	% of students	% of students with a Language
Languages: Turkish	168	168	100.00	104	61.90	61.90	148	88.10	88.10
Languages: Ukrainian	5	5	100.00	3	60.00	60.00	5	100.00	100.00
Languages: Vietnamese	414	414	100.00	239	57.73	57.73	334	80.68	80.68
Languages: Yiddish	3	3	100.00	0	0.00	0.00	3	100.00	100.00
Maths: Further Mathematics	27477	4213	15.33	2344	8.53	55.64	3705	13.48	87.94
Maths: Mathematical Methods (CAS)	15022	5290	35.22	2468	16.43	46.65	4438	29.54	83.89
Maths: Mathematical Methods (CAS) CBE	59	19	32.20	9	15.25	47.37	16	27.12	84.21
Maths: Specialist Mathematics	4054	1643	40.53	479	11.82	29.15	1249	30.81	76.02
Media	3833	338	8.82	196	5.11	57.99	294	7.67	86.98
Music Investigation	247	38	15.38	18	7.29	47.37	33	13.36	86.84
Music Performance	1626	320	19.68	168	10.33	52.50	297	18.27	92.81
Music Style And Composition	151	24	15.89	14	9.27	58.33	22	14.57	91.67
Outdoor And Environmental Studies	2408	81	3.36	40	1.66	49.38	68	2.82	83.95
Philosophy	838	108	12.89	64	7.64	59.26	94	11.22	87.04
Physical Education	8749	637	7.28	322	3.68	50.55	563	6.44	88.38
Physics	6930	1821	26.28	739	10.66	40.58	1413	20.39	77.59
Australian Politics	259	45	17.37	17	6.56	37.78	35	13.51	77.78
Global Politics	1466	323	22.03	165	11.26	51.08	292	19.92	90.40
Psychology	14455	1781	12.32	1006	6.96	56.49	1569	10.85	88.10
Religion And Society	1624	220	13.55	111	6.83	50.45	195	12.01	88.64
Sociology	624	47	7.53	29	4.65	61.70	42	6.73	89.36
Studio Arts	4778	478	10.00	281	5.88	58.79	435	9.10	91.00
Systems Engineering	660	37	5.61	21	3.18	56.76	29	4.39	78.38
Texts and Traditions	473	100	21.14	44	9.30	44.00	91	19.24	91.00
Theatre Studies	950	131	13.79	77	8.11	58.78	113	11.89	86.26
Visual Communication Design	5197	733	14.10	433	8.33	59.07	669	12.87	91.27
VCE VET Business	356	30	8.43	18	5.06	60.00	27	7.58	90.00
VCE VET Community Services	281	14	4.98	7	2.49	50.00	13	4.63	92.86
VCE VET Dance	136	10	7.35	6	4.41	60.00	10	7.35	100.00
VCE VET Engineering Studies	241	6	2.49	3	1.24	50.00	5	2.07	83.33
VCE VET Equine Industry	155	6	3.87	3	1.94	50.00	5	3.23	83.33
VCE VET Furnishing	53	1	1.89	1	1.89	100.00	1	1.89	100.00
VCE VET Hospitality	332	31	9.34	22	6.63	70.97	30	9.04	96.77
VCE VET Hospitality (Kitchen Operations)	457	36	7.88	27	5.91	75.00	33	7.22	91.67
VCE VET Information Technology	241	24	9.96	15	6.22	62.50	22	9.13	91.67
VCE VET Integrated Technologies	117	6	5.13	3	2.56	50.00	4	3.42	66.67
VCE VET Interactive Digital Media	755	60	7.95	35	4.64	58.33	55	7.28	91.67
VCE VET Laboratory Skills	29	4	13.79	2	6.90	50.00	3	10.34	75.00
VCE VET Music	280	15	5.36	10	3.57	66.67	15	5.36	100.00
VCE VET Sport And Recreation	718	20	2.79	13	1.81	65.00	20	2.79	100.00
VCE VET Technical Production	365	22	6.03	6	1.64	27.27	19	5.21	86.36

## Percentage of Study Populations Achieving Various Minimum ATAR Levels

The following tables give the studies and the percentage of the 2013 study population achieving VTAC Scaled Study Scores in that study and 2013 ATARs (correct as of 6 January 2014) in the respective ranges.

For ATARs of at least 98.00 only those studies whose population proportion exceeded 10% are listed.

For ATARs of at least 95.00 only those studies whose population proportion exceeded 12% are listed.

For ATARs of at least 90.00 only those studies whose population proportion exceeded 20% are listed.

In all three cases, studies with fewer than 21 students achieving an VTAC Scaled Study Score and ATAR have been excluded.

### H7: Percentage of Study Population Achieving a 2013 ATAR $\geq$ 98

2013 Study	Percentage of Study Population with ATAR $\geq$ 98
Languages: Classical Greek	52.2
Languages: Latin	46.9
Languages: Hebrew	29.4
Maths: Specialist Mathematics	19.2
Languages: Chinese Second Language	17.1
Languages: French	15.9
Languages: Serbian	13.0
Languages: Chinese Second Lang. Adv.	12.2
Languages: Korean Second Language	12.0
Chemistry	10.3

### H8: Percentage of Study Population Achieving a 2013 ATAR $\geq$ 95

2013 Study	Percentage of Study Population with ATAR $\geq$ 95
Languages: Classical Greek	73.9
Languages: Latin	72.4
Languages: Hebrew	45.1
Maths: Specialist Mathematics	37.7
Languages: Chinese Second Language	35.5
Languages: French	32.7
Languages: Chinese Second Lang. Adv.	27.3
Languages: Korean Second Language	24.0
Chemistry	22.9
Languages: Japanese Second Language	22.9
Maths: Mathematical Methods (CAS) CBE	20.3
Languages: German	20.2
Maths: Mathematical Methods (CAS)	19.9
History: Renaissance Italy	19.2
Languages: Serbian	17.4
English Language	16.9
Physics	16.4
Global Politics	16.3
Languages: Indonesian Second Lang.	14.9
Cultural Recreation Entertainment C	14.3
Classical Studies	14.3
CISCO Exploration (VCE VET)	13.8
Languages: Chinese First Language	13.0
English (EAL)	12.3
Economics	12.2

### H9: Percentage of Study Population Achieving a 2013 ATAR $\geq$ 90

2013 Study	Percentage of Study Population with ATAR $\geq$ 90
Languages: Latin	84.9
Languages: Classical Greek	73.9
Languages: Hebrew	68.6
Maths: Specialist Mathematics	56.6
Languages: Chinese Second Language	56.2
Languages: French	53.2
Maths: Mathematical Methods (CAS) CBE	47.5
Languages: Korean Second Language	44.0
Languages: Chinese Second Lang. Adv.	42.4
CISCO Exploration (VCE VET)	41.4
Languages: German	40.4
Chemistry	39.8
Languages: Japanese Second Language	39.2
Maths: Mathematical Methods (CAS)	36.3
Languages: Korean First Language	35.5
Extended Investigation	35.5
History: Renaissance Italy	34.1
Food Processing A	32.1
Global Politics	31.4
Languages: Russian	30.0
Physics	29.9
English Language	29.8
Australian Politics	29.0
Languages: Indonesian Second Lang.	28.2
Languages: Chinese First Language	26.3
Languages: Sinhala	25.0
Economics	24.7
Languages: Italian	24.1
Cultural Recreation Entertainment C	23.8
Classical Studies	23.6
Languages: Spanish	23.2
Music Style And Composition	23.2
English (EAL)	23.0
Literature	22.0
Languages: Indonesian First Language	20.8
Languages: Greek	20.8
Accounting	20.7
Biology	20.3

Note: Students should not deduce from these tables to do one of the studies listed.

## Maximum VTAC Scaled Study Score by Study at Various ATAR levels

The following tables give the studies and the percentage of students' maximum VTAC Scaled Study Scores achieved in those studies, for students with 2013 ATARs in the top 10%, 5% and 2% (correct as of 6 January 2014). Only those studies where the percentage exceeded 2% are listed and percentages are of cases where the maximum VTAC scaled study score was achieved in any year.

Each student has at most one maximum VTAC Scaled Study Score unless a tie on 50.00 occurs.

### H10: Percentage of Maximum VTAC Scaled Study Score per Study for a 2013 ATAR $\geq$ 98

2013 Study	Percentage Achieved in Any Year	Percentage Achieved in 2013
Maths: Specialist Mathematics	38.6	38.4
Languages: French	8.5	7.4
Maths: Mathematical Methods (CAS)	8.4	8.2
English	7.3	7.3
Languages: Latin	3.6	2.9
Psychology	2.8	1.7
Maths: Further Mathematics	2.5	2.0
Biology	2.4	1.0
Languages: Chinese Second Language	2.0	0.1
Others	23.8	

### H11: Percentage of Maximum VTAC Scaled Study Score per Study for a 2013 ATAR $\geq$ 95

2013 Study	Percentage Achieved in Any Year	Percentage Achieved in 2013
Maths: Specialist Mathematics	28.0	27.9
Maths: Mathematical Methods (CAS)	11.2	10.6
English	8.5	8.5
Languages: French	7.4	6.3
Maths: Further Mathematics	3.4	2.6
Psychology	3.1	2.0
Biology	2.8	1.2
Languages: Chinese Second Language	2.4	0.3
Legal Studies	2.3	1.8
Languages: Latin	2.2	1.8
Chemistry	2.1	2.1
Others	26.6	

### H12: Percentage of Maximum VTAC Scaled Study Score per Study for a 2013 ATAR $\geq$ 90

2013 Study	Percentage Achieved in Any Year	Percentage Achieved in 2013
Maths: Specialist Mathematics	19.0	19.0
Maths: Mathematical Methods (CAS)	14.0	13.3
English	9.4	9.3
Languages: French	6.2	5.5
Maths: Further Mathematics	4.4	3.4
Psychology	3.2	2.2
Biology	2.9	1.4
Chemistry	2.5	2.5
Legal Studies	2.4	2.0
Languages: Chinese Second Language	2.4	0.5
Business Management	2.4	1.8
Health And Human Development	2.4	1.7
Others	28.7	

## ATAR Distributions

### H13: Gender Breakdown in Various 2013 ATAR Ranges

The following table gives the breakdown between males and females, in various ATAR ranges, of Victorian ATARs achieved in 2013 (correct as of 6 January 2014).

ATAR Range	Gender	Count	Average ATAR	Standard Deviation of ATAR
All	Female	25,140	65.35	22.60
	Male	21,708	63.26	23.54
90-99.95	Female	3,842	94.85	2.85
	Male	3,282	95.12	2.94
80-89.95	Female	4,132	85.02	2.84
	Male	3,042	85.09	2.87
70-79.95	Female	3,871	75.01	2.87
	Male	3,041	74.93	2.89
60-69.95	Female	3,655	65.00	2.87
	Male	3,078	64.93	2.87
50-59.95	Female	3,278	55.08	2.89
	Male	2,892	55.04	2.91
40-49.95	Female	2,645	45.27	2.86
	Male	2,536	45.20	2.84
30-39.95	Female	1,710	35.45	2.81
	Male	1,693	35.49	2.83
20-29.95	Female	1,044	25.32	2.86
	Male	1,092	25.22	2.90
<20	Female	963	12.45	5.22
	Male	1,052	12.41	5.23

### H14. The distribution of 2013 ATARs for VCE students under 17 years of age

The distribution of 2013 ATARs (correct as of 6 January 2013) for VCE students born on or after 1/1/1997 is as follows:

ATAR Range	Count	Percentage	Cumulative Count	Cumulative Percentage
95 - 99.95	18	22.2	18	22.2
90 - 94.95	6	7.4	24	29.6
85 - 89.95	7	8.6	31	38.3
80 - 84.95	7	8.6	38	46.9
75 - 79.95	8	9.9	46	56.8
70 - 74.95	4	4.9	50	61.7
65 - 69.95	9	11.1	59	72.8
60 - 64.95	8	9.9	67	82.7
55 - 59.95	2	2.5	69	85.2
50 - 54.95	2	2.5	71	87.7
45 - 49.95	0	0.0	71	87.7
40 - 44.95	2	2.5	73	90.1
35 - 39.95	4	4.9	77	95.1
30 - 34.95	1	1.2	78	96.3
25 - 29.95	1	1.2	79	97.5
20 - 24.95	0	0.0	79	97.5
15 - 19.95	2	2.5	81	100.0
10 - 14.95	0	0.0	81	100.0
5 - 9.95	0	0.0	81	100.0
0 - 4.95	0	0.0	81	100.0
All	81	100.0		

### H15. The distribution of 2013 ATARs by Region

The distribution of 2013 ATARs (correct as of 6 January 2014), in various ATAR Bands, by Region is as follows. Region is defined in terms of home postcode as detailed in earlier tables.

Region	ATAR Band																	Total	
	95 - 99.95	90 - 94.95	85 - 89.95	80 - 84.95	75 - 79.95	70 - 74.95	65 - 69.95	60 - 64.95	55 - 59.95	50 - 54.95	45 - 49.95	40 - 44.95	35 - 39.95	30 - 34.95	25 - 29.95	20 - 24.95	10-19.95		0-9.95
Ballarat	47	64	58	75	65	64	74	83	89	85	85	72	49	46	49	37	46	20	1108
Bendigo	39	53	73	72	85	83	77	95	68	80	82	62	61	50	35	28	34	12	1089
Geelong	84	99	139	140	182	169	179	174	164	128	133	80	102	73	61	49	62	43	2061
Hume	30	34	64	78	85	82	84	70	97	99	83	95	64	61	40	25	57	19	1167
Latrobe - Gippsland	39	80	104	111	121	123	116	148	155	150	144	119	98	82	67	53	49	29	1788
Mornington Peninsula	94	116	122	122	161	155	153	161	170	139	131	106	101	51	34	50	58	19	1943
North West	24	45	58	73	63	88	88	85	103	104	75	79	78	47	43	48	50	20	1171
Shepparton	27	20	51	46	52	73	85	83	77	89	79	67	63	54	38	19	56	22	1001
Warrnambool and South West	18	44	52	59	62	74	76	112	97	87	82	78	53	53	38	30	32	20	1067
Melbourne - Inner	431	330	307	262	250	215	211	163	143	137	106	96	65	51	40	29	35	23	2894
Melbourne - Inner East	756	563	461	375	300	285	253	207	144	115	109	84	62	61	47	31	35	17	3905
Melbourne - Inner South	462	455	418	315	319	272	217	211	199	127	131	122	67	48	39	20	27	10	3459
Melbourne - North East	233	249	288	275	262	284	305	271	270	244	262	203	187	135	108	97	149	70	3892
Melbourne - North West	123	164	163	214	189	207	208	239	223	224	208	166	185	125	104	88	130	74	3034
Melbourne - Outer East	273	358	345	395	354	408	352	383	366	313	281	249	193	137	92	68	138	55	4760
Melbourne - South East	552	474	488	446	453	442	429	461	425	453	393	340	222	176	136	151	217	95	6353
Melbourne - West	229	260	344	332	358	352	379	378	365	377	394	318	268	193	157	152	183	88	5127
<b>Victoria - TOTAL</b>	<b>3461</b>	<b>3408</b>	<b>3535</b>	<b>3390</b>	<b>3361</b>	<b>3376</b>	<b>3286</b>	<b>3324</b>	<b>3155</b>	<b>2951</b>	<b>2778</b>	<b>2336</b>	<b>1918</b>	<b>1443</b>	<b>1128</b>	<b>975</b>	<b>1358</b>	<b>636</b>	<b>45819</b>
Australian Capital Territory	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	3
New South Wales	17	19	23	17	20	17	18	22	10	11	15	10	9	11	11	3	9	3	245
Northern Territory	1	2	2	1	0	2	1	0	1	0	0	1	0	0	0	0	0	0	11
Queensland	0	2	0	3	1	1	0	3	0	0	1	0	2	0	0	0	0	0	13
South Australia	1	1	1	2	1	1	2	1	1	0	1	0	1	0	0	0	0	0	13
Tasmania	0	1	2	0	0	1	2	0	0	1	1	0	0	0	0	0	0	0	8
Western Australia	0	0	1	1	3	0	0	2	0	1	0	0	0	1	0	1	0	0	10
<b>Interstate - Total</b>	<b>19</b>	<b>25</b>	<b>29</b>	<b>25</b>	<b>26</b>	<b>22</b>	<b>24</b>	<b>28</b>	<b>12</b>	<b>13</b>	<b>18</b>	<b>11</b>	<b>12</b>	<b>12</b>	<b>11</b>	<b>4</b>	<b>9</b>	<b>3</b>	<b>303</b>
Other	98	113	106	89	86	41	44	27	22	17	16	22	11	7	13	5	7	2	726
<b>TOTAL</b>	<b>3578</b>	<b>3546</b>	<b>3670</b>	<b>3504</b>	<b>3473</b>	<b>3439</b>	<b>3354</b>	<b>3379</b>	<b>3189</b>	<b>2981</b>	<b>2812</b>	<b>2369</b>	<b>1941</b>	<b>1462</b>	<b>1152</b>	<b>984</b>	<b>1374</b>	<b>641</b>	<b>46848</b>