

O F F I C E O F R E V I E W

Q U A L I T Y A S S U R A N C E I N
V I C T O R I A N S C H O O L S

B E N C H M A R K S

1998

V C E
V I C T O R I A N C E R T I F I C A T E
O F E D U C A T I O N

VCE Benchmarks 98

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I N T R O D U C T I O N

The Victorian accountability framework, Quality Assurance in Victorian Schools, aims to support schools to improve their effectiveness. It does this by providing the framework through which schools can learn about the effectiveness of their programs, their policies, their processes and procedures.

The school annual report and the triennial school review are the formal framework for assessment of school performance. They summarise the data collected on each school's achievement in the delivery of its curriculum, the quality of its student welfare and management programs, its organisational health and its relationships with its community. They indicate the standards of learning achieved by its students.

To support schools in monitoring and improving their effectiveness, the Office of Review publishes school performance benchmarks each year. These benchmarks analyse the actual levels of performance reported by schools in their annual reports. They do not, as some commercial benchmarking frameworks do, concentrate on the characteristics of specific processes in order to identify 'best practice'. Rather, they analyse the results of school processes and help schools to answer the question: "Is what we have achieved good enough?"

School performance benchmarks address this question by identifying performance levels achieved by schools across the state and presenting them so that individual schools are able to compare their own performance with the performance achieved by their colleagues in other schools. School performance benchmarks are presented for all schools across the state and in groups or categories of 'like' schools. The structure of the 'like' schools groupings and a method for calculating which group an individual school is in are described in Appendix 2.

For the 1998 data, nine 'like' school groups are used. The 'like' school groups are based on a three year average (1996-1998) of a school's Educational Maintenance Allowance (EMA) and AUSTUDY and Language Background other than English (LBOTE). A listing of the schools in each group is on the Office of Review website <http://www.sofweb.vic.edu.au/ofreview>

SCHOOL PERFORMANCE BENCHMARKS 1998

In 1999, the Office of Review is presenting the 1998 school performance benchmarks in the following areas:

- Student achievement in the Victorian Certificate of Education (VCE)
- Student achievement in the Years Prep - 10.
- VCE provision
- Time allocated to each Key Learning Area (KLA) by year level
- Student absence rates
- Student post school destinations, exit Years 10, 11 and 12
- Staff opinion survey
- Staff absence rates
- Student accidents by location and severity

- Apparent retention of students from Year 7 - 10
- Apparent retention of students from Year 11 - 12
- Student completion, Year 12
- Work Cover

The 1998 VCE benchmarks include data not provided in 1997. Data are provided on student achievement by VCE enrolment size and geographic location. Data are also provided on student retention Year 7 - 10.

Over time, the performance benchmarks will develop in sophistication and also be developed for Aboriginal and Torres Strait Islander students, students whose parents qualify for the Educational Maintenance Allowance or AUSTUDY

and students who speak a language other than English at home. It is expected that national and international benchmarks will also become available.

Schools can also learn about their effectiveness by comparing their current performance levels with their own past performance. The school charter then enables schools to plan for improved achievements in key areas of their operations and to set challenging performance targets for themselves.

STUDENT ACHIEVEMENT VCE 1998

In February each year the Office of Review provides VCE data directly to each government school. The data include VCE results in:

- English
- Mathematics Methods
- Further Mathematics
- Performance by gender together with the average performance of all students in the State

- Performance in each 'like' school group
- Performance of students in each VCE study undertaken by the school in 1996, 1997 and 1998 together with the average performance of all students in each 'like' school group.

The information on student achievement in the VCE outlined in this publication relates to Common Assessment Task

(CAT) grades, performance in English and mathematics and apparent retention.

CAT grades across all studies for all Victorian Government school VCE students are given in both tabular and graphical form. These representations show the proportion of A+, A, B+, and other grades. in all studies for all Government school VCE students expressed as a percentage of all grades awarded.

Data are also provided for VCE English, Mathematical Methods and Further Mathematics. The performance of all students in government schools for each of the three studies is presented, together with the average performance of all students in each 'like' school group.

In addition to the extra data provided in 1998 described above, the relative

performance of the average, highest and lowest school for each 'like' school group is provided.

School performance in the VCE is always considered in the context of student retention. Data on 1998 apparent retention rates between Years 7 and 10, Years 11 to 12 and Year 12 completion are presented in this document.

I N T E R P R E T A T I O N O F R E S U L T S

The school's VCE results can be interpreted by following a simple procedure:

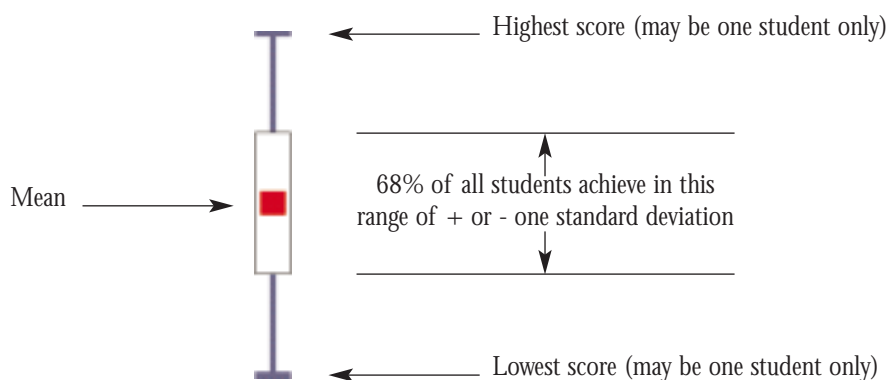
1. Compare the school's distribution of CAT grades with the state results. (Note that the statewide CAT grade distributions were sent to schools with information about their VCE results by the Office of Review in February 1999). Does the school's distribution of results fit the state profile or is the distribution skewed positively or negatively against the state profile? What is the proportion of A+, A and other grades achieved by the school compared with the state profile?
2. Compare the school's mean study scores in English with the state mean. The state results also give the standard deviation for all the students in the state. Sixty eight per cent of students will score within the range

- plus and minus one standard deviation from the mean (the rectangle). Sixteen percent of students are in the top section and the same proportion in the lower section (see over page).
3. Compare the school's mean score and standard deviation with the mean score for the 'like' school group and for the best performing school in the group. The highest and lowest points refer to the performance of individual students. These are provided for interest but have little comparative value in terms of the performance of an entire VCE cohort.
4. Note that when the number of students undertaking a particular study is small (ie fewer than 15) the average study score is still reliable. However, care needs to be taken in considering the distribution; a few

high or low performing students can distort the distribution.

5. Note that comparing the performance of boys and girls, it is also the position of the mean and the standard deviation which should be considered.
6. Compare the performance of the school with schools in other 'like' school groups with different student population characteristics.
7. Repeat the procedure for Mathematical Methods and Further Mathematics.
8. Other data, such as Year 12 completion and Years 11 - 12 apparent retention, the proportion of not assessed (NA), VCE provision, destination of exit students, geographical location and type of school will also add value to judgements of VCE performance and should also be considered.

Figure 1. Distribution of VCE study scores.



MAKING JUDGEMENTS

The key questions to be answered in consideration of the school's VCE results are:

- Is the school's performance considered satisfactory?
- Where is there scope for improvement?

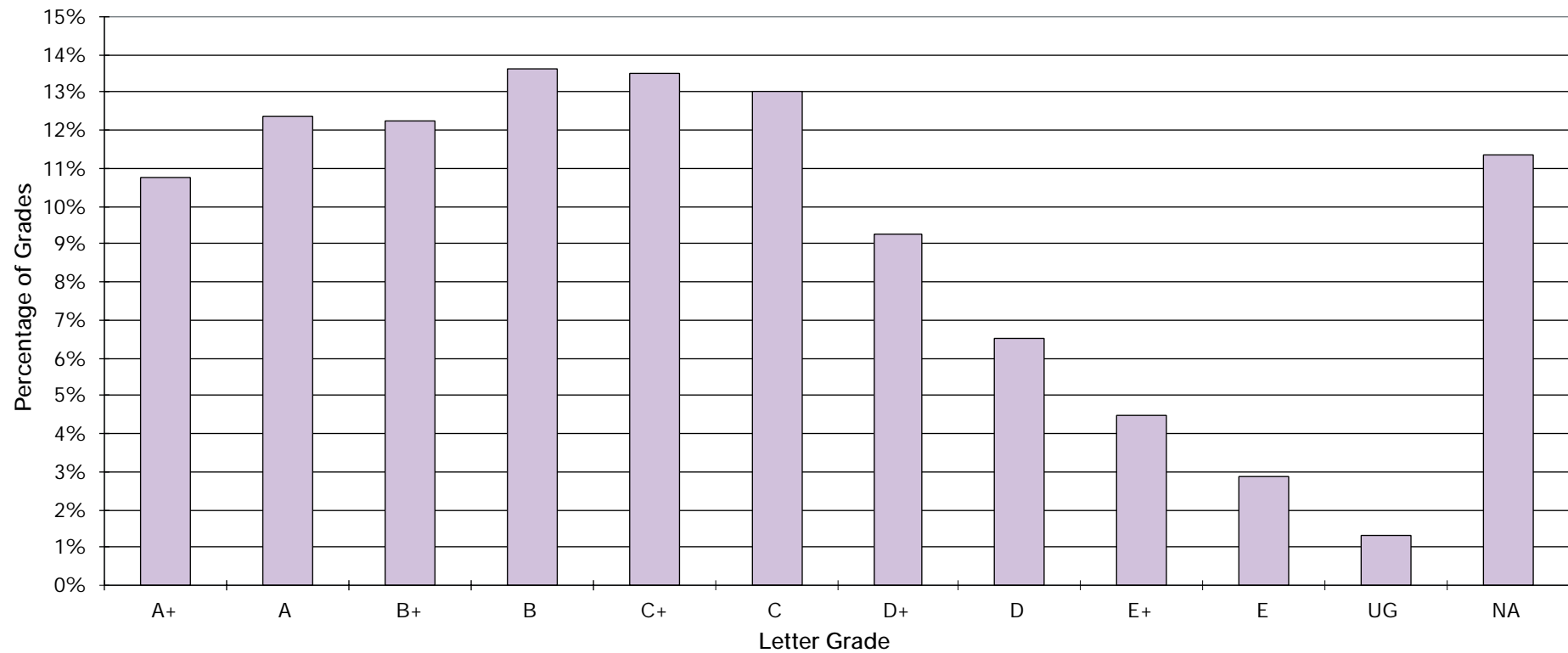
In developing answers to these questions any available data on previous VCE performance, Year 11 - 12 apparent retention rate, the Year 12 completion rate, the proportion of NA, the destination of exit students, comparisons with 'like' schools and with the state as a whole should all be taken into account. Although VCE results compared with

schools with similar student populations represent one element of achievement, the proportions of students in Years 10, 11, and 12 who are able to find employment or places in technical, further or higher education is also an important achievement measure.

DISTRIBUTION OF ALL CATs FOR 1998 VCE RESULTS

Count of Graded & UG CATs	Percentage											Count of all CATs including NA*	
	A+	A	B+	B	C+	C	D+	D	E+	E	UG		NA
385492	10.8%	12.4%	12.3%	13.6%	13.5%	13.0%	9.3%	6.5%	4.5%	2.9%	1.3%	11.4%	435003

Percentage of grades for all CATs across all studies, 1998

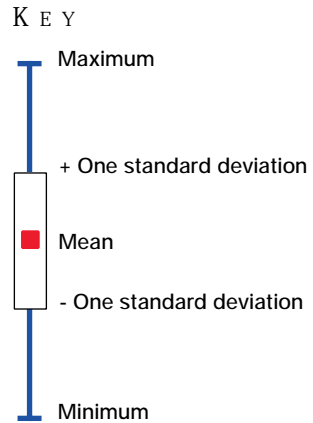


* Percentages for A+ to UG are based on the total excluding NA; NA percentage is percentage of total including NA

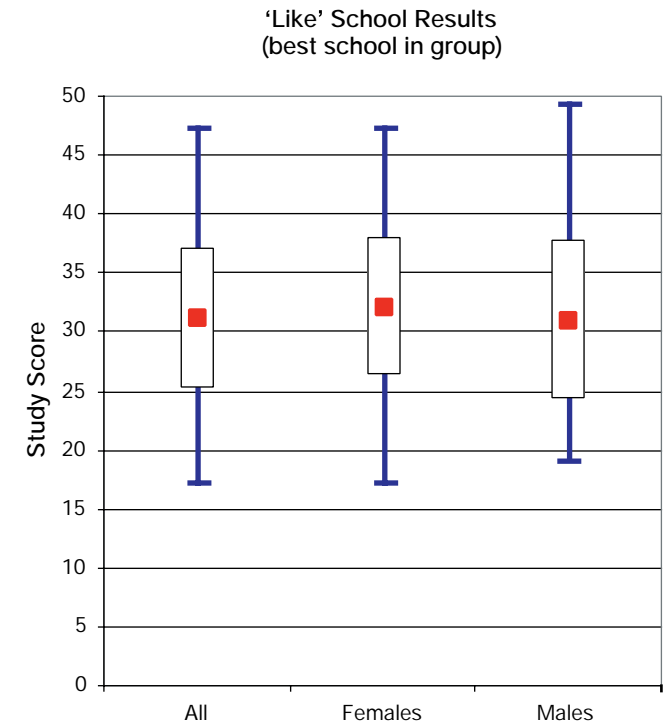
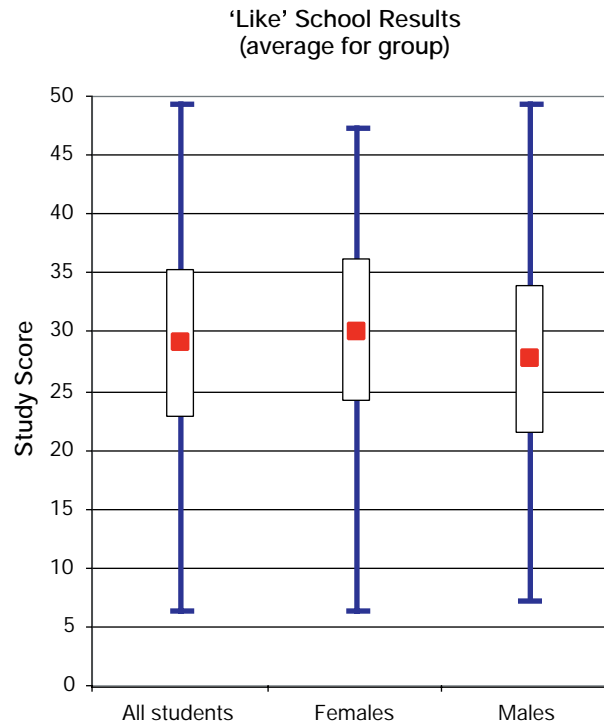
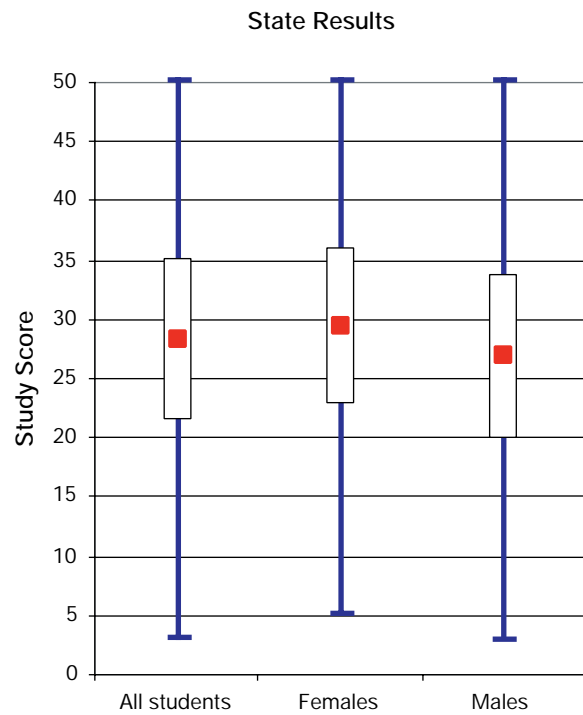
STUDY SCORE DISTRIBUTION WITHIN THE SPECIFIED STUDY

Subject: EN01 English

'Like' schools group: 1 Nil or very low proportions of LOTE speakers at home/Low proportions of EMA or Austudy recipients



		No. students	Maximum	Mean + STD	Mean	Mean - STD	Minimum
State Results	All students	23616	50	35.2	28.4	21.6	3
	Females	13203	50	36.0	29.5	23.0	5
	Males	10413	50	33.9	27.0	20.1	3
'Like' schools average results for group*	All students	2251	49	35.3	29.1	22.9	6
	Females	1230	47	36.2	30.2	24.2	6
	Males	1021	49	33.9	27.7	21.5	7
'Like' schools best results in group for student group†	All	158	47	37.0	31.1	25.3	17
	Females	77	47	38.0	32.2	26.4	17
	Males	49	49	37.8	31.1	24.4	19



* 'Like' school average is average of all students in group, not average of school results

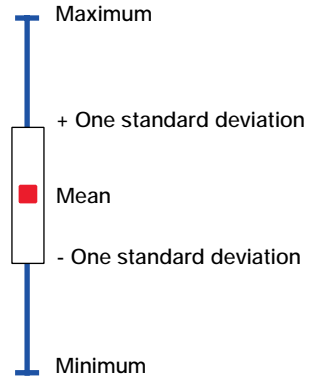
† 'Best' school is school for which mean score for that group of students was best out of all school with the same groups

STUDY SCORE DISTRIBUTION WITHIN THE SPECIFIED STUDY

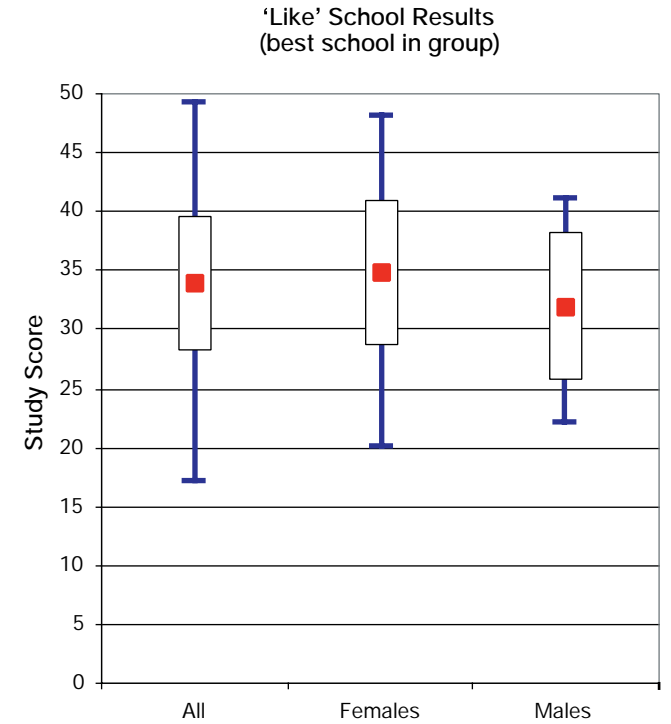
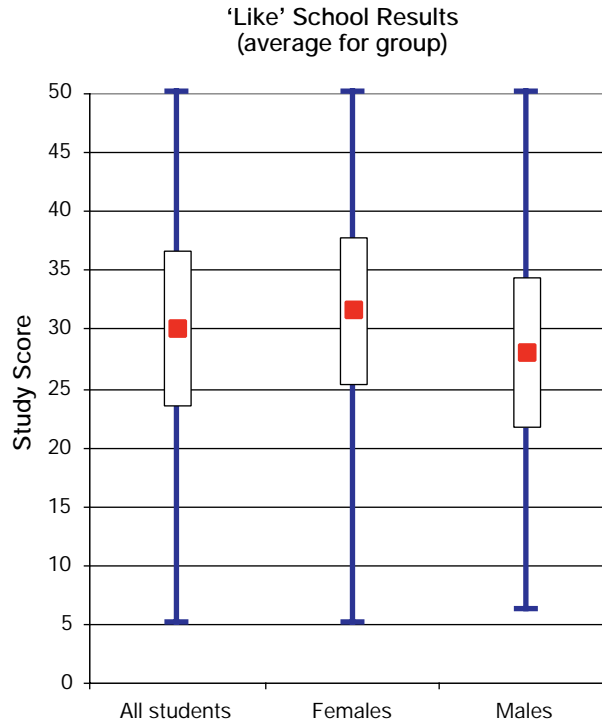
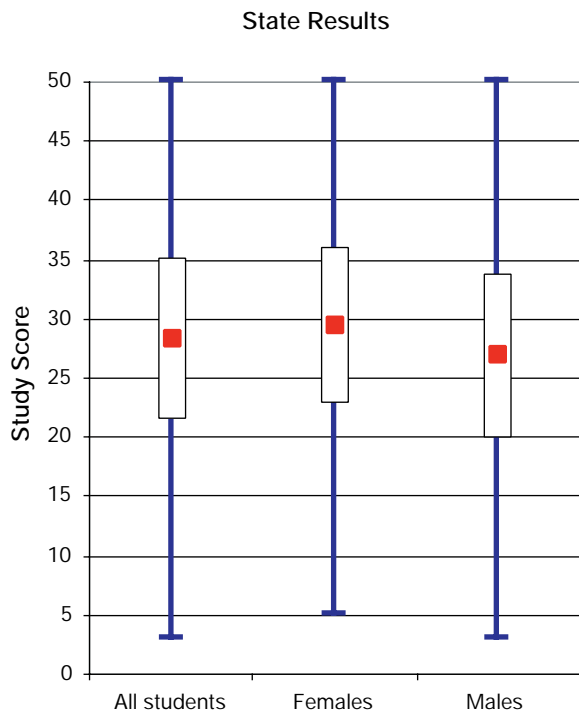
Subject: EN01 English

'Like' schools group: 2 Low proportions of LOTE speakers at home/Low proportions of EMA or Austudy recipients

KEY



		No. students	Maximum	Mean + STD	Mean	Mean - STD	Minimum
State Results	All students	23616	50	35.2	28.4	21.6	3
	Females	13203	50	36.0	29.5	23.0	5
	Males	10413	50	33.9	27.0	20.1	3
'Like' schools average results for group*	All students	2895	50	36.6	30.1	23.6	5
	Females	1627	50	37.8	31.6	25.4	5
	Males	1268	50	34.5	28.1	21.8	6
'Like' schools best results in group for student group†	All	153	49	39.5	33.9	28.2	17
	Females	85	48	41.0	34.9	28.8	20
	Males	17	41	38.2	32.0	25.8	22



* 'Like' school average is average of all students in group, not average of school results

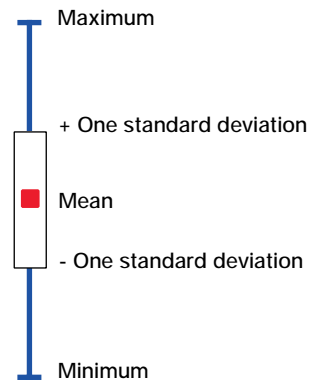
† 'Best' school is school for which mean score for that group of students was best out of all school with the same groups

STUDY SCORE DISTRIBUTION WITHIN THE SPECIFIED STUDY

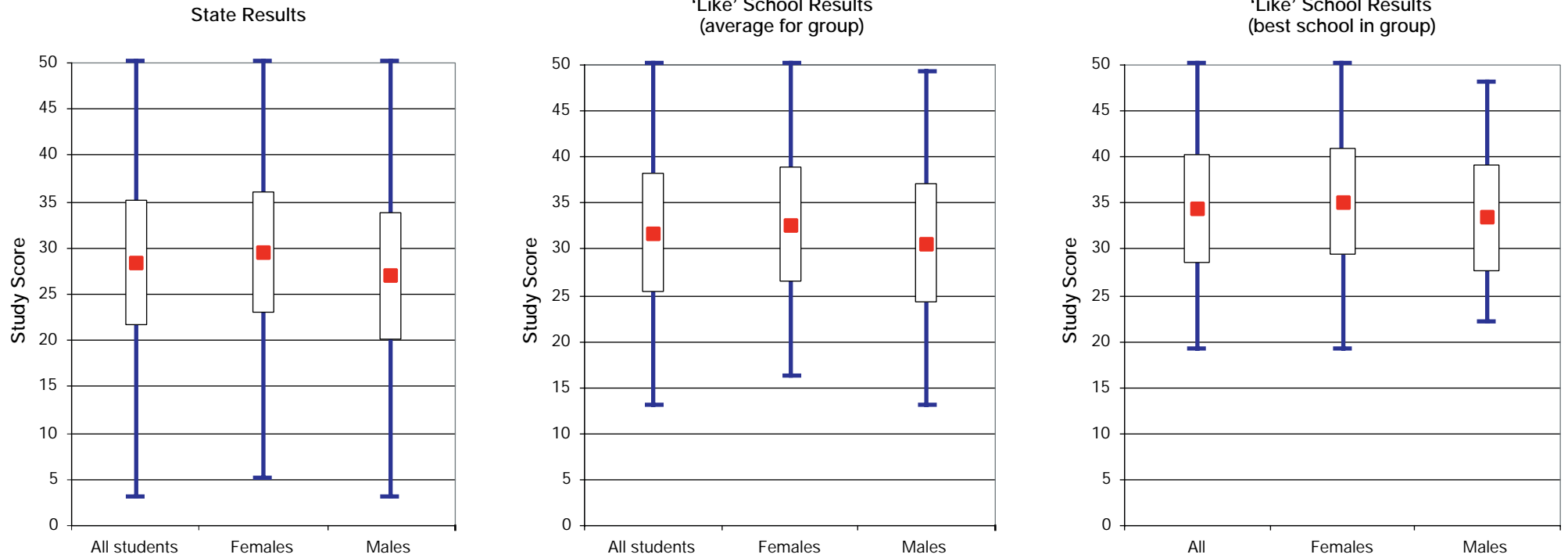
Subject: EN01 English

'Like' schools group: 3 Medium to high proportions of LOTE speakers at home/Low proportions of EMA or Austudy recipients

KEY



		No. students	Maximum	Mean + STD	Mean	Mean - STD	Minimum
State Results	All students	23616	50	35.2	28.4	21.6	3
	Females	13203	50	36.0	29.5	23.0	5
	Males	10413	50	33.9	27.0	20.1	3
'Like' schools average results for group*	All students	885	50	38.2	31.7	25.3	13
	Females	472	50	38.9	32.7	26.4	16
	Males	413	49	37.1	30.6	24.2	13
'Like' schools best results in group for student group†	All	196	50	40.2	34.4	28.5	19
	Females	108	50	41.0	35.2	29.3	19
	Males	88	48	39.1	33.4	27.7	22



* 'Like' school average is average of all students in group, not average of school results

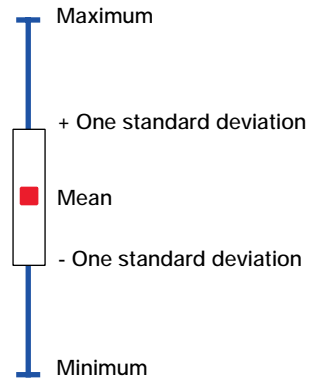
† 'Best' school is school for which mean score for that group of students was best out of all school with the same groups

STUDY SCORE DISTRIBUTION WITHIN THE SPECIFIED STUDY

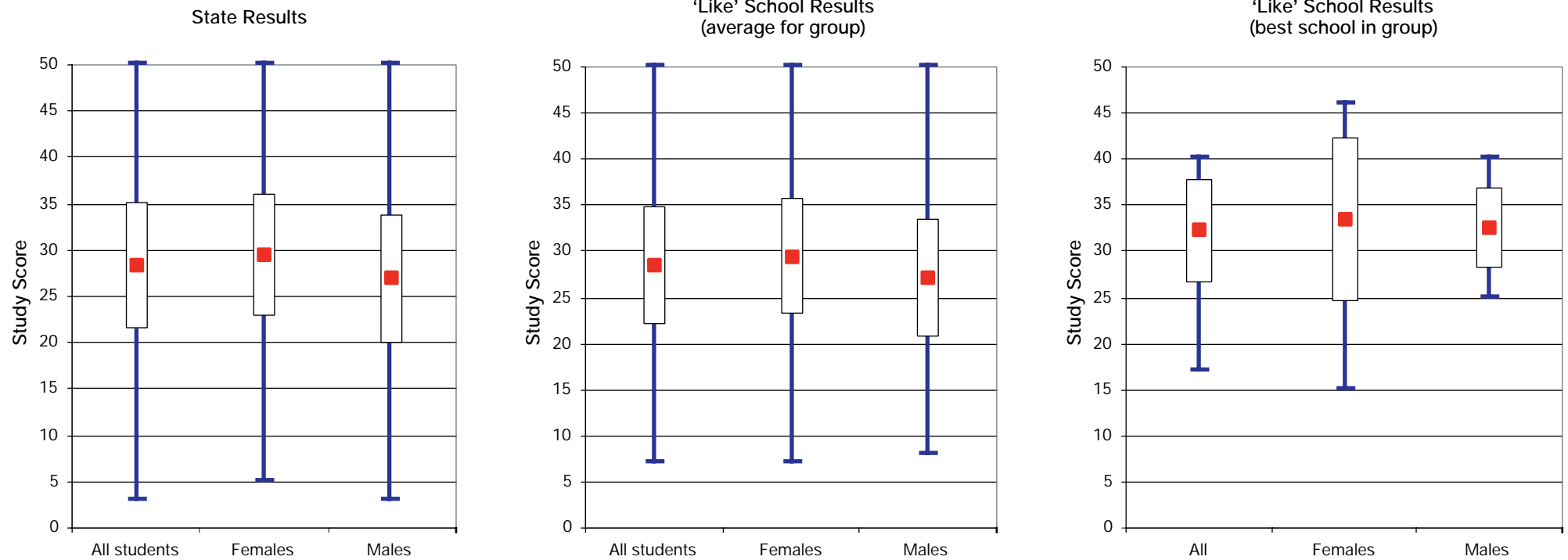
Subject: EN01 English

'Like' schools group: 4 Nil or very low proportions of LOTE speakers at home/Medium proportions of EMA or Austudy recipients

KEY



		No. students	Maximum	Mean + STD	Mean	Mean - STD	Minimum
State Results	All students	23616	50	35.2	28.4	21.6	3
	Females	13203	50	36.0	29.5	23.0	5
	Males	10413	50	33.9	27.0	20.1	3
'Like' schools average results for group*	All students	5622	50	34.8	28.5	22.1	7
	Females	3243	50	35.7	29.5	23.3	7
	Males	2379	50	33.4	27.1	20.8	8
'Like' schools best results in group for student group†	All	20	40	37.7	32.3	26.8	17
	Females	12	46	42.4	33.6	24.8	15
	Males	13	40	36.8	32.6	28.4	25



* 'Like' school average is average of all students in group, not average of school results

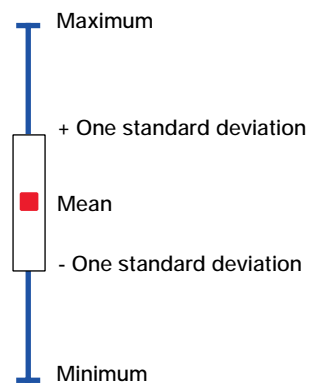
† 'Best' school is school for which mean score for that group of students was best out of all school with the same groups

STUDY SCORE DISTRIBUTION WITHIN THE SPECIFIED STUDY

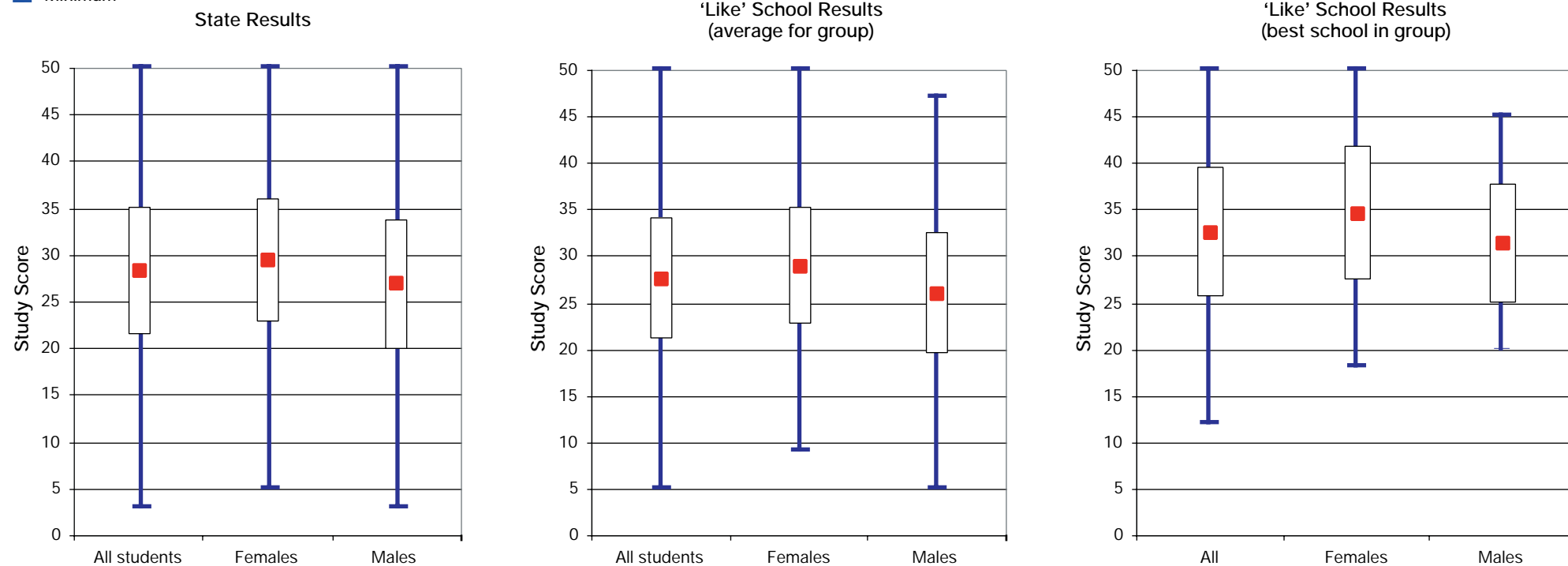
Subject: EN01 English

'Like' schools group: 5 Low proportions of LOTE speakers at home/Medium proportions of EMA or Austudy recipients

KEY



		No. students	Maximum	Mean + STD	Mean	Mean - STD	Minimum
State Results	All students	23616	50	35.2	28.4	21.6	3
	Females	13203	50	36.0	29.5	23.0	5
	Males	10413	50	33.9	27.0	20.1	3
'Like' schools average results for group*	All students	3545	50	34.2	27.7	21.2	5
	Females	1919	50	35.3	29.0	22.7	9
	Males	1626	47	32.6	26.1	19.6	5
'Like' schools best results in group for student group†	All	81	50	39.6	32.7	25.8	12
	Females	39	50	41.7	34.6	27.5	18
	Males	62	45	37.7	31.4	25.0	20



* 'Like' school average is average of all students in group, not average of school results

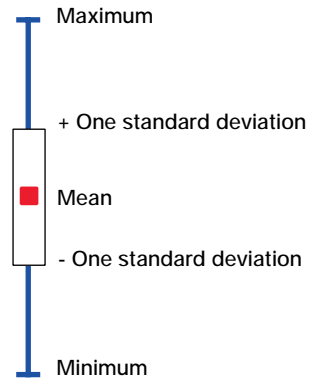
† 'Best' school is school for which mean score for that group of students was best out of all school with the same groups

STUDY SCORE DISTRIBUTION WITHIN THE SPECIFIED STUDY

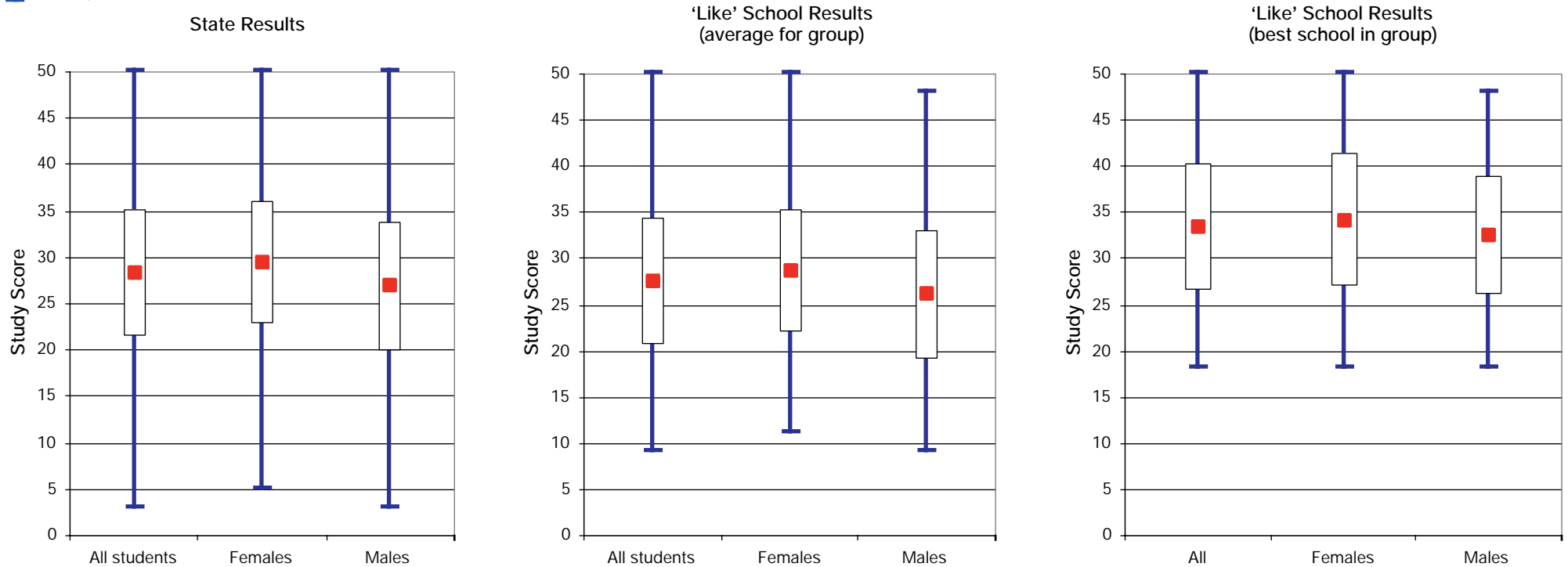
Subject: EN01 English

'Like' schools group: 6 Medium to high proportions of LOTE speakers at home/Medium proportions of EMA or Austudy recipients

KEY



		No. students	Maximum	Mean + STD	Mean	Mean - STD	Minimum
State Results	All students	23616	50	35.2	28.4	21.6	3
	Females	13203	50	36.0	29.5	23.0	5
	Males	10413	50	33.9	27.0	20.1	3
'Like' schools average results for group*	All students	1442	50	34.4	27.6	20.7	9
	Females	830	50	35.2	28.6	22.1	11
	Males	612	48	33.1	26.2	19.2	9
'Like' schools best results in group for student group†	All	174	50	40.3	33.5	26.7	18
	Females	92	50	41.4	34.3	27.1	18
	Males	82	48	38.8	32.6	26.3	18



* 'Like' school average is average of all students in group, not average of school results

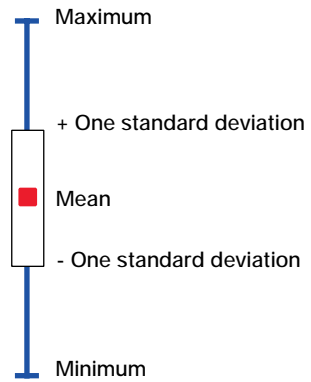
† 'Best' school is school for which mean score for that group of students was best out of all school with the same groups

STUDY SCORE DISTRIBUTION WITHIN THE SPECIFIED STUDY

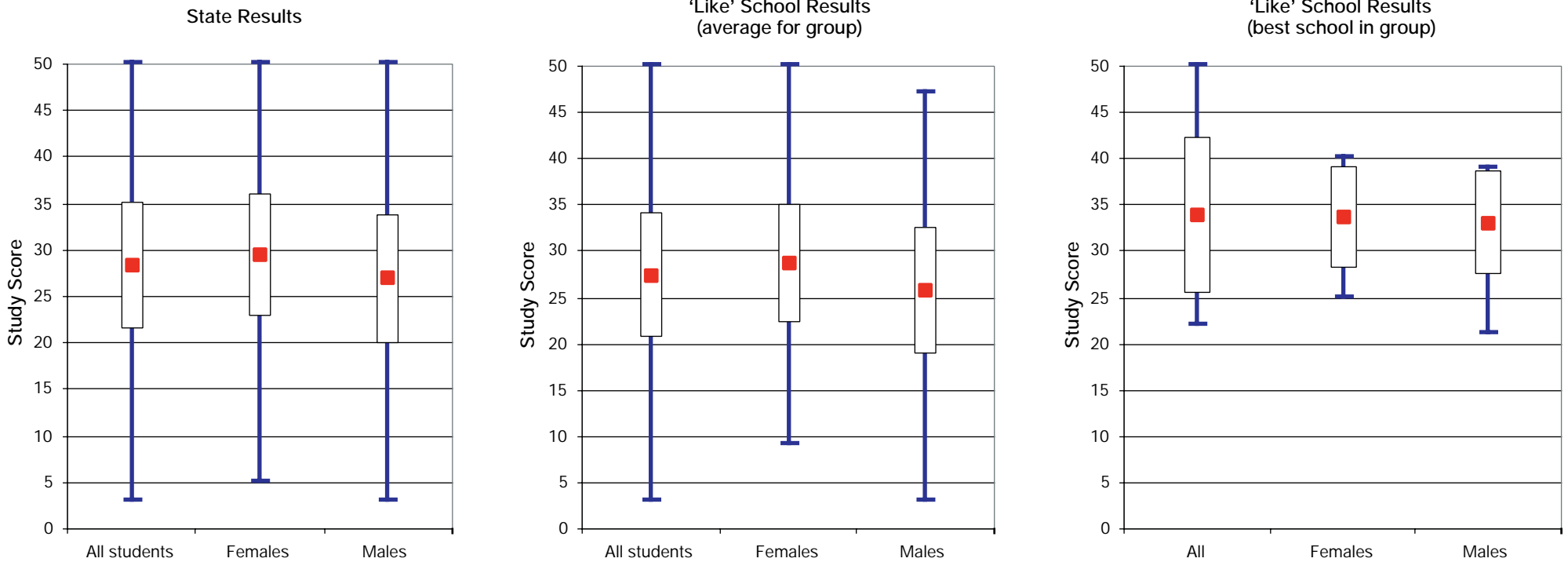
Subject: EN01 English

'Like' schools group: 7 Nil or very low proportions of LOTE speakers at home/High proportions of EMA or Austudy recipients

KEY



		No. students	Maximum	Mean + STD	Mean	Mean - STD	Minimum
State Results	All students	23616	50	35.2	28.4	21.6	3
	Females	13203	50	36.0	29.5	23.0	5
	Males	10413	50	33.9	27.0	20.1	3
'Like' schools average results for group*	All students	3194	50	34.2	27.5	20.8	3
	Females	1793	50	35.1	28.8	22.5	9
	Males	1401	47	32.6	25.8	19.0	3
'Like' schools best results in group for student group†	All	15	50	42.2	33.9	25.5	22
	Females	5	40	39.2	33.8	28.4	25
	Males	7	39	38.7	33.1	27.6	21



* 'Like' school average is average of all students in group, not average of school results

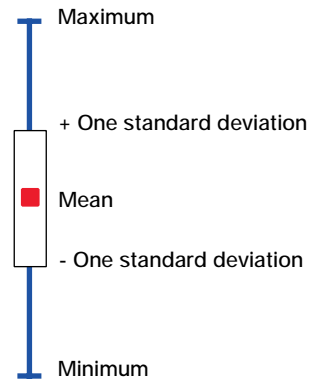
† 'Best' school is school for which mean score for that group of students was best out of all school with the same groups

STUDY SCORE DISTRIBUTION WITHIN THE SPECIFIED STUDY

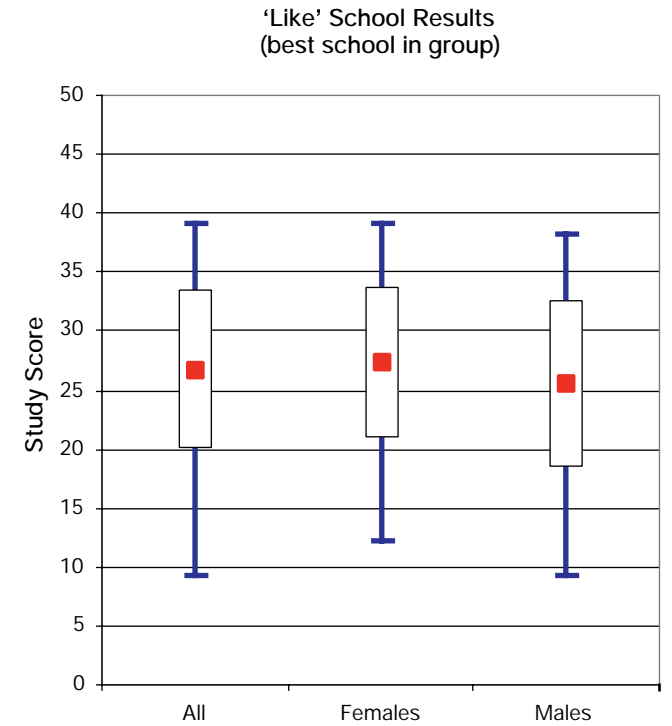
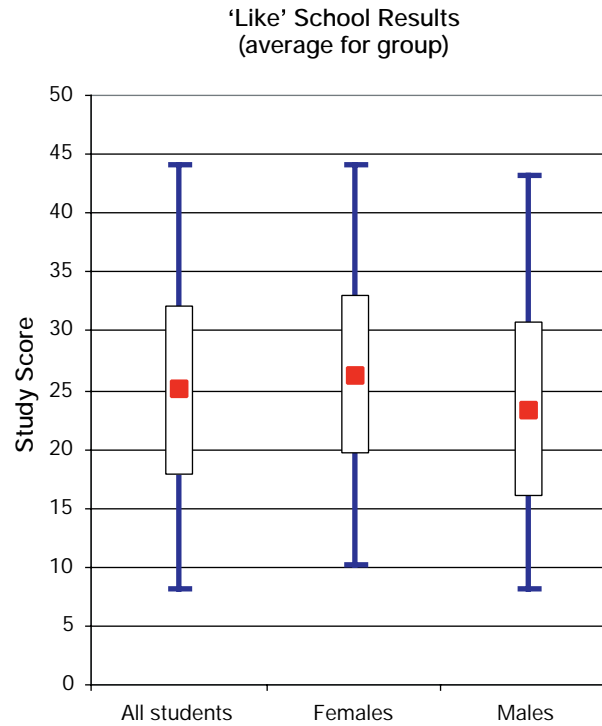
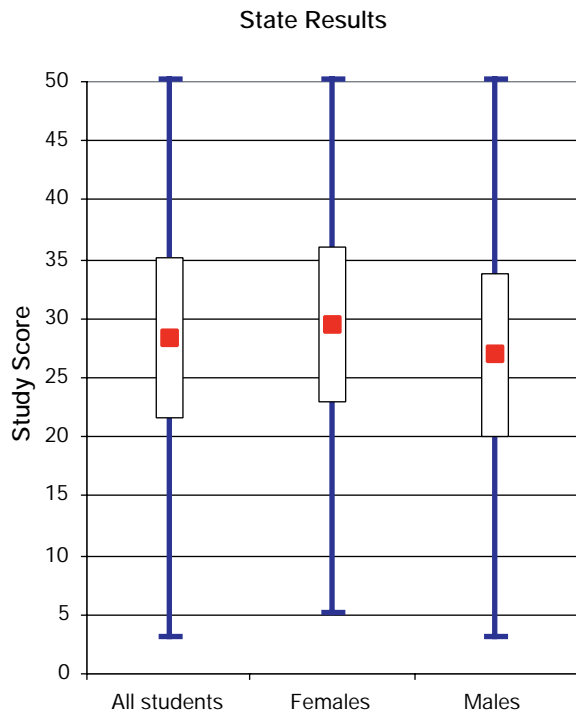
Subject: EN01 English

'Like' schools group: 8 Low proportions of LOTE speakers at home/High proportions of EMA or Austudy recipients

KEY



		No. students	Maximum	Mean + STD	Mean	Mean - STD	Minimum
State Results	All students	23616	50	35.2	28.4	21.6	3
	Females	13203	50	36.0	29.5	23.0	5
	Males	10413	50	33.9	27.0	20.1	3
'Like' schools average results for group*	All students	348	44	32.2	25.0	17.8	8
	Females	197	44	33.0	26.3	19.6	10
	Males	151	43	30.7	23.3	16.0	8
'Like' schools best results in group for student group†	All	67	39	33.4	26.8	20.2	9
	Females	44	39	33.8	27.4	21.1	12
	Males	23	38	32.6	25.6	18.6	9



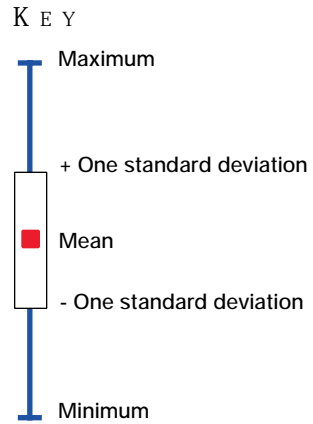
*'Like' school average is average of all students in group, not average of school results

†'Best' school is school for which mean score for that group of students was best out of all school with the same groups

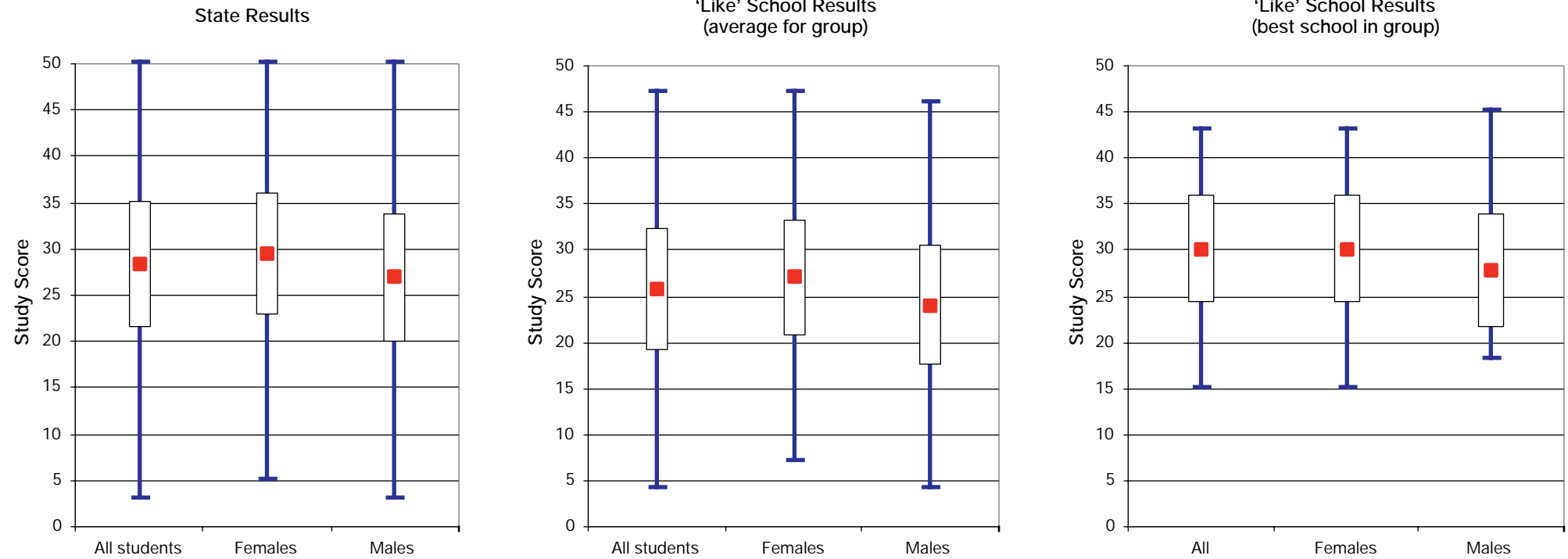
STUDY SCORE DISTRIBUTION WITHIN THE SPECIFIED STUDY

Subject: EN01 English

'Like' schools group: 9 Medium to high proportions of LOTE speakers at home/High proportions of EMA or Austudy recipients



		No. students	Maximum	Mean + STD	Mean	Mean - STD	Minimum
State Results	All students	23616	50	35.2	28.4	21.6	3
	Females	13203	50	36.0	29.5	23.0	5
	Males	10413	50	33.9	27.0	20.1	3
'Like' schools average results for group*	All students	2907	47	32.3	25.8	19.3	4
	Females	1698	47	33.3	27.1	20.8	7
	Males	1209	46	30.5	24.0	17.5	4
'Like' schools best results in group for student group†	All	184	43	35.9	30.1	24.4	15
	Females	184	43	35.9	30.1	24.4	15
	Males	39	45	33.9	27.8	21.7	18



* 'Like' school average is average of all students in group, not average of school results

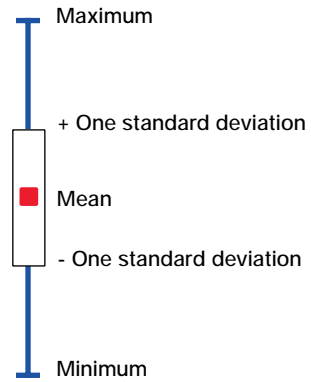
† 'Best' school is school for which mean score for that group of students was best out of all school with the same groups

STUDY SCORE DISTRIBUTION WITHIN THE SPECIFIED STUDY

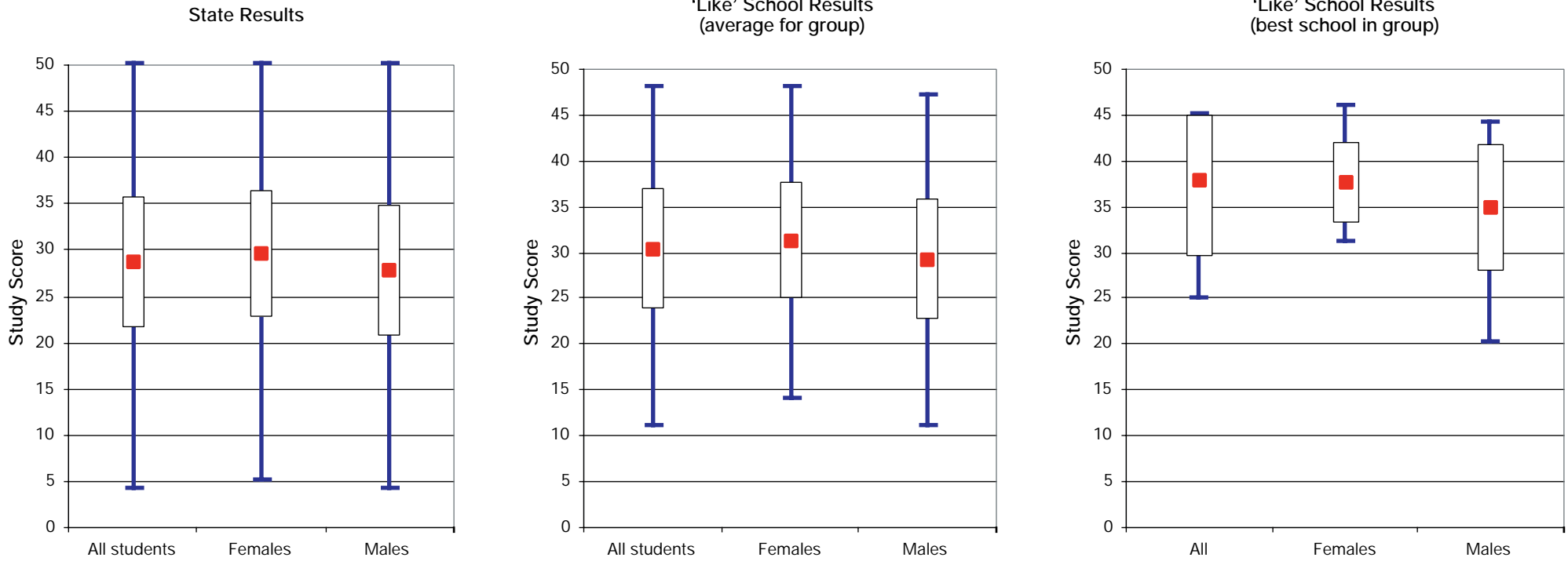
Subject: MA07 Further Mathematics

'Like' schools group: 1 Nil or very low proportions of LOTE speakers at home/Low proportions of EMA or Austudy recipients

KEY



		No. students	Maximum	Mean + STD	Mean	Mean - STD	Minimum
State Results	All students	8296	50	35.7	28.8	21.8	4
	Females	4485	50	36.3	29.6	22.8	5
	Males	3811	50	35.0	27.9	20.8	4
'Like' schools average results for group*	All students	724	48	36.9	30.4	23.9	11
	Females	387	48	37.7	31.4	25.0	14
	Males	337	47	35.8	29.3	22.7	11
'Like' schools best results in group for student group†	All	5	45	45.0	37.8	29.6	25
	Females	14	46	42.0	37.7	33.4	31
	Males	10	44	41.9	35.0	28.1	20



* 'Like' school average is average of all students in group, not average of school results

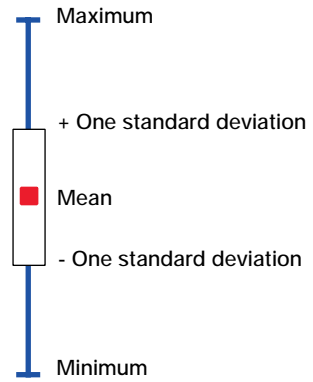
† 'Best' school is school for which mean score for that group of students was best out of all school with the same groups

STUDY SCORE DISTRIBUTION WITHIN THE SPECIFIED STUDY

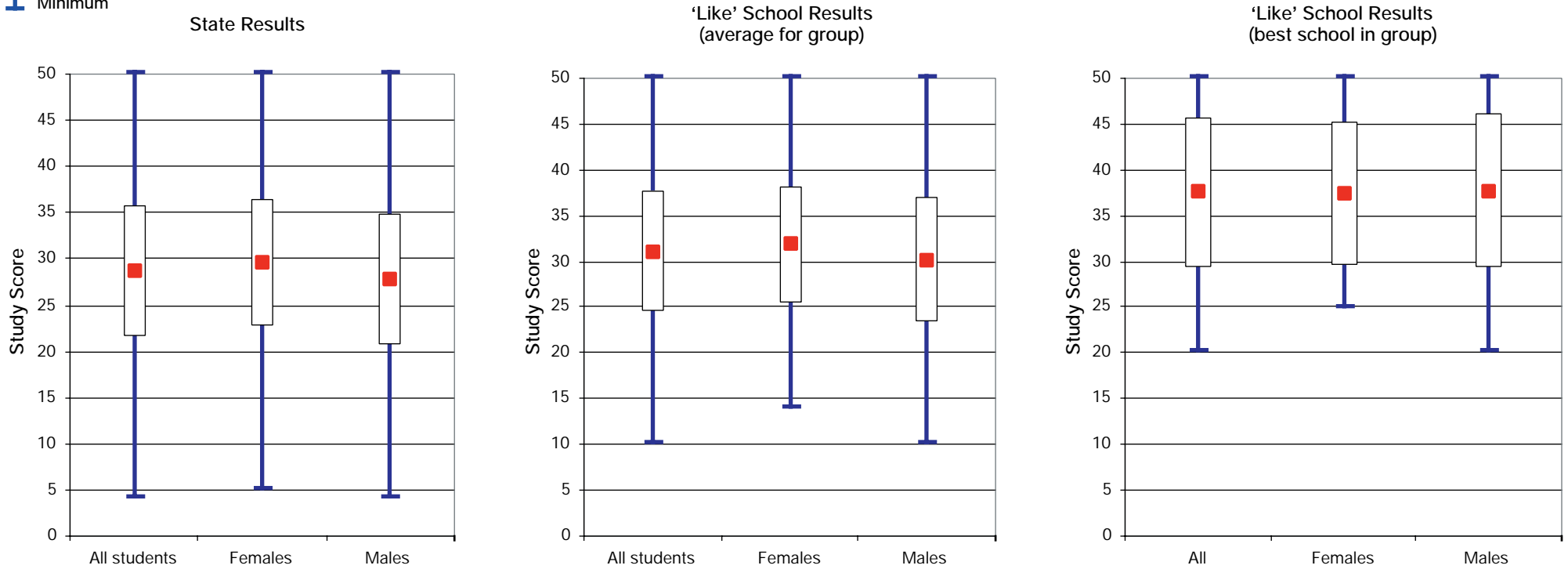
Subject: MA07 Further Mathematics

'Like' schools group: 2 Low proportions of LOTE speakers at home/Low proportions of EMA or Austudy recipients

KEY



		No. students	Maximum	Mean + STD	Mean	Mean - STD	Minimum
State Results	All students	8296	50	35.7	28.8	21.8	4
	Females	4485	50	36.3	29.6	22.8	5
	Males	3811	50	35.0	27.9	20.8	4
'Like' schools average results for group*	All students	944	50	37.7	31.1	24.6	10
	Females	525	50	38.2	31.9	25.6	14
	Males	419	50	36.9	30.2	23.4	10
'Like' schools best results in group for student group†	All	47	50	45.7	37.6	29.5	20
	Females	19	50	45.3	37.5	29.7	25
	Males	28	50	46.0	37.8	29.5	20



* 'Like' school average is average of all students in group, not average of school results

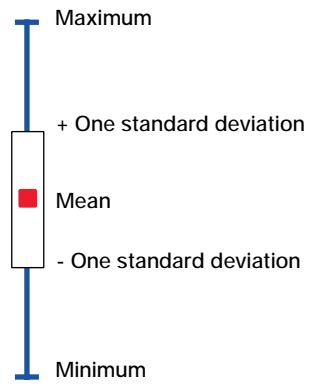
† 'Best' school is school for which mean score for that group of students was best out of all school with the same groups

STUDY SCORE DISTRIBUTION WITHIN THE SPECIFIED STUDY

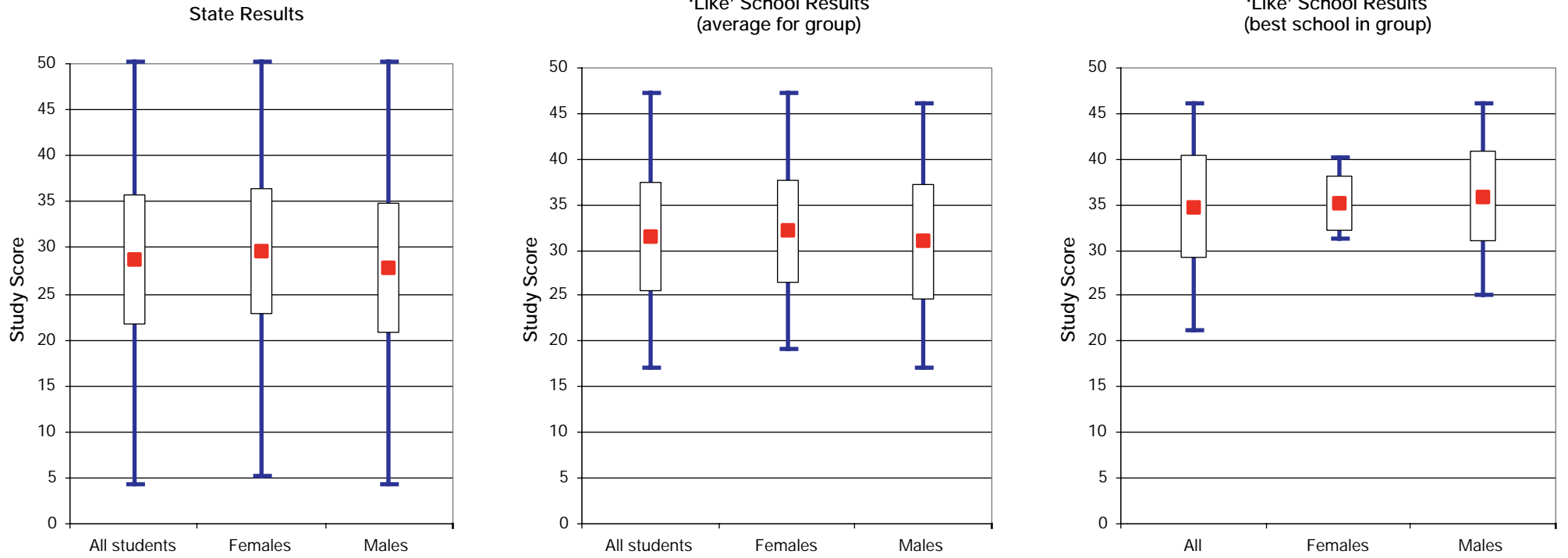
Subject: MA07 Further Mathematics

'Like' schools group: 3 Medium to high proportions of LOTE speakers at home/Low proportions of EMA or Austudy recipients

KEY



		No. students	Maximum	Mean + STD	Mean	Mean - STD	Minimum
State Results	All students	8296	50	35.7	28.8	21.8	4
	Females	4485	50	36.3	29.6	22.8	5
	Males	3811	50	35.0	27.9	20.8	4
'Like' schools average results for group*	All students	264	47	37.5	31.5	25.6	17
	Females	132	47	37.7	32.1	26.6	19
	Males	132	46	37.2	31.0	24.7	17
'Like' schools best results in group for student group†	All	65	46	40.5	34.8	29.2	21
	Females	10	40	38.1	35.1	32.1	31
	Males	36	46	40.8	35.9	30.9	25



* 'Like' school average is average of all students in group, not average of school results

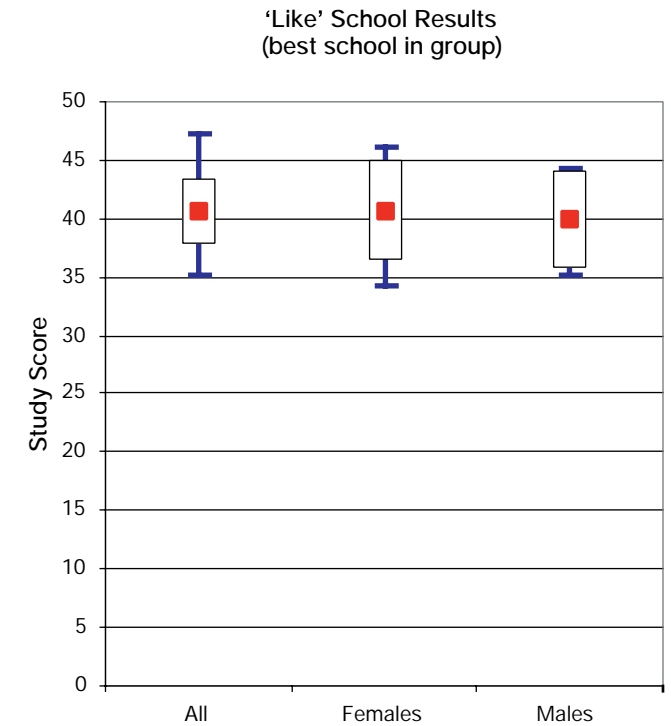
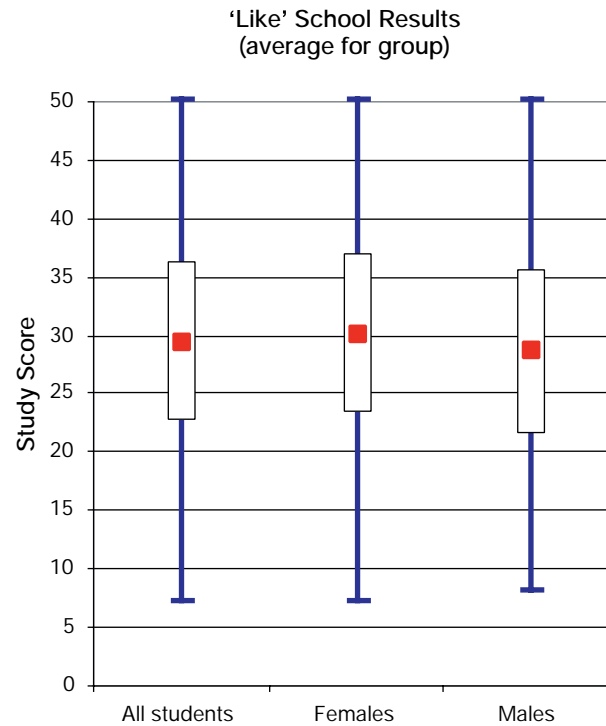
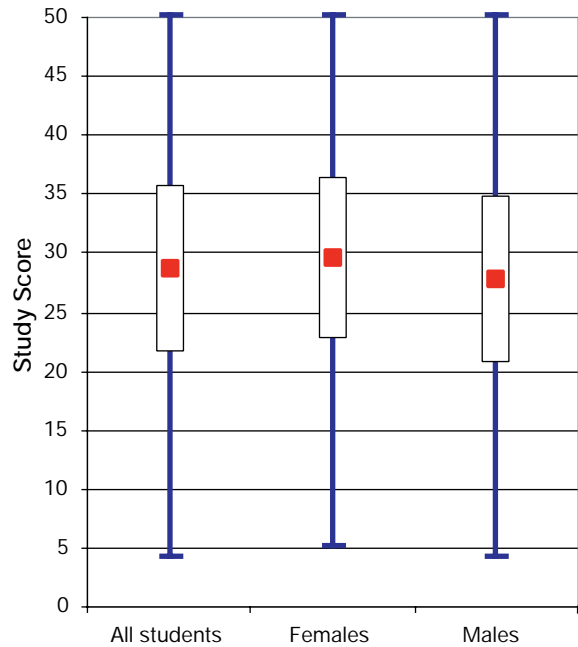
† 'Best' school is school for which mean score for that group of students was best out of all school with the same groups

STUDY SCORE DISTRIBUTION WITHIN THE SPECIFIED STUDY

Subject: MA07 Further Mathematics

'Like' schools group: 4 Nil or very low proportions of LOTE speakers at home/Medium proportions of EMA or Austudy recipients

KEY		No. students	Maximum	Mean + STD	Mean	Mean - STD	Minimum	
	State Results	All students	8296	50	35.7	28.8	21.8	4
		Females	4485	50	36.3	29.6	22.8	5
		Males	3811	50	35.0	27.9	20.8	4
	'Like' schools average results for group*	All students	2161	50	36.4	29.6	22.7	7
		Females	1223	50	36.9	30.2	23.5	7
		Males	938	50	35.7	28.7	21.8	8
	'Like' schools best results in group for student group†	All	16	47	43.4	40.6	37.8	35
		Females	10	46	44.9	40.7	36.5	34
		Males	5	44	44.0	40.0	35.9	35



* 'Like' school average is average of all students in group, not average of school results

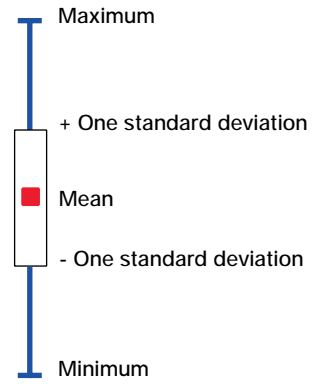
† 'Best' school is school for which mean score for that group of students was best out of all school with the same groups

STUDY SCORE DISTRIBUTION WITHIN THE SPECIFIED STUDY

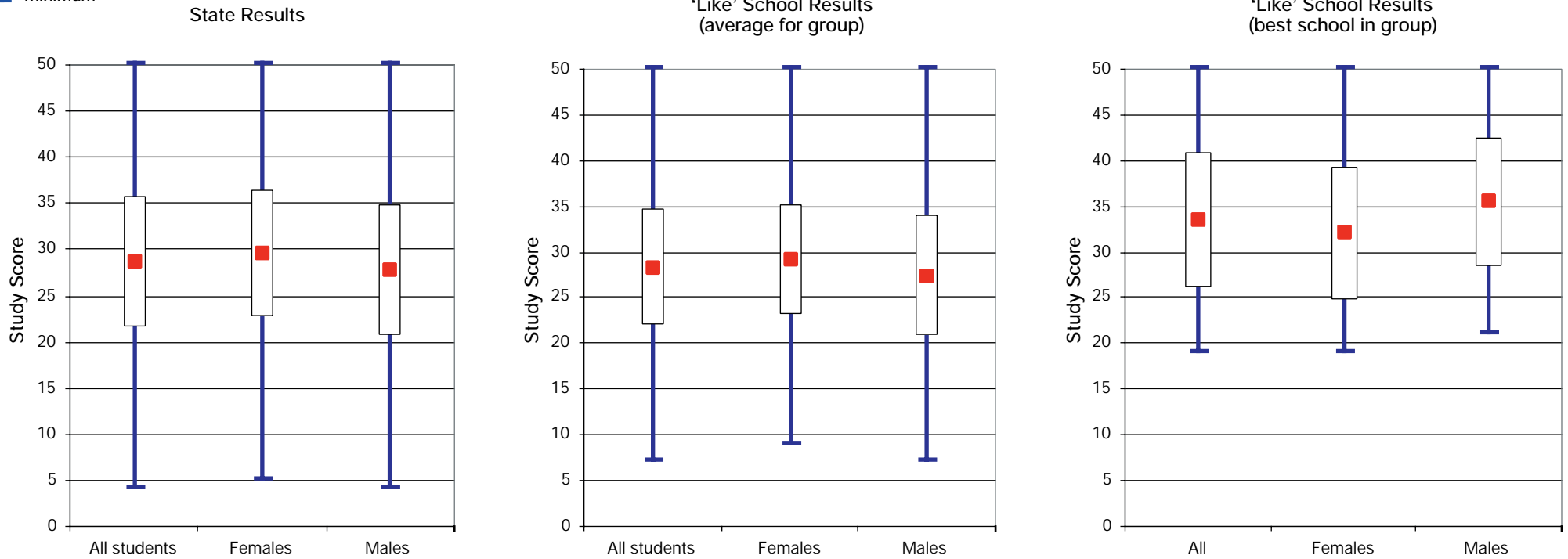
Subject: MA07 Further Mathematics

'Like' schools group: 5 Low proportions of LOTE speakers at home/Medium proportions of EMA or Austudy recipients

KEY



		No. students	Maximum	Mean + STD	Mean	Mean - STD	Minimum
State Results	All students	8296	50	35.7	28.8	21.8	4
	Females	4485	50	36.3	29.6	22.8	5
	Males	3811	50	35.0	27.9	20.8	4
'Like' schools average results for group*	All students	1276	50	34.7	28.4	22.1	7
	Females	647	50	35.2	29.3	23.3	9
	Males	629	50	33.9	27.5	21.0	7
'Like' schools best results in group for student group†	All	43	50	40.9	33.6	26.3	19
	Females	25	50	39.4	32.2	25.0	19
	Males	18	50	42.5	35.6	28.6	21



* 'Like' school average is average of all students in group, not average of school results

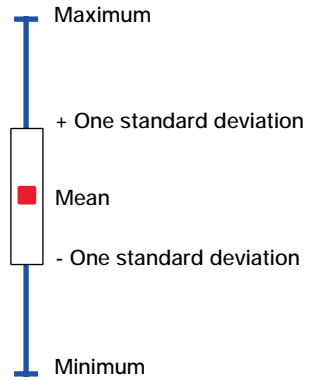
† 'Best' school is school for which mean score for that group of students was best out of all school with the same groups

STUDY SCORE DISTRIBUTION WITHIN THE SPECIFIED STUDY

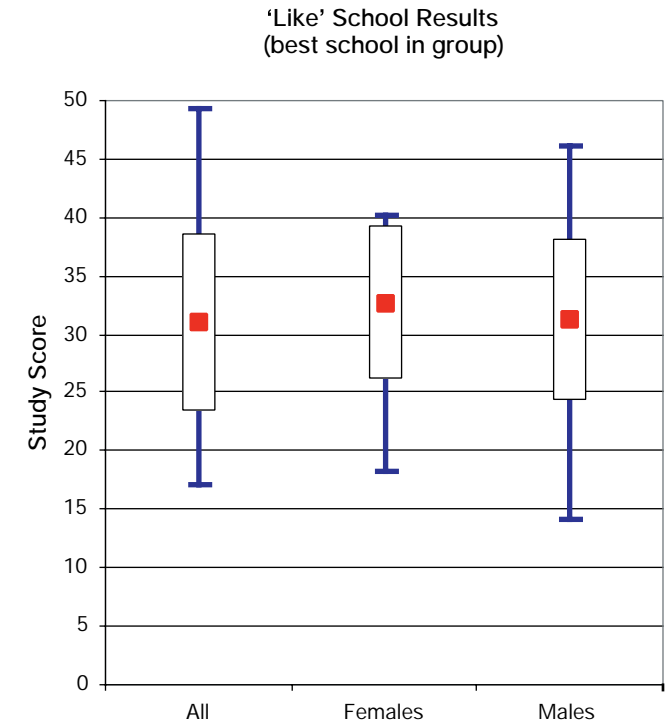
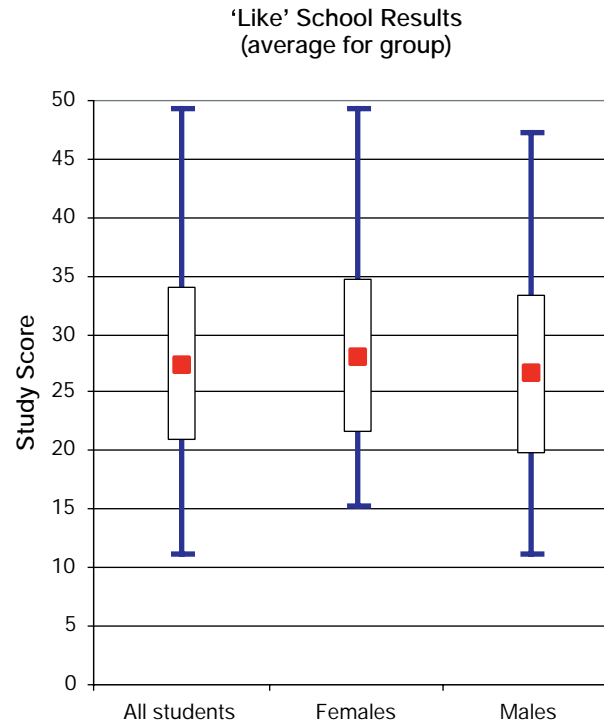
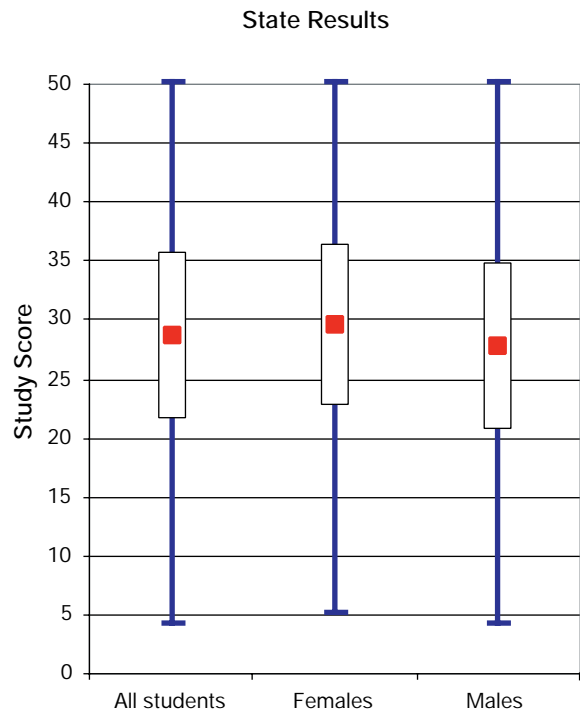
Subject: MA07 Further Mathematics

'Like' schools group: 6 Medium to high proportions of LOTE speakers at home/Medium proportions of EMA or Austudy recipients

KEY



		No. students	Maximum	Mean + STD	Mean	Mean - STD	Minimum
State Results	All students	8296	50	35.7	28.8	21.8	4
	Females	4485	50	36.3	29.6	22.8	5
	Males	3811	50	35.0	27.9	20.8	4
'Like' schools average results for group*	All students	442	49	34.1	27.5	20.9	11
	Females	242	49	34.6	28.2	21.7	15
	Males	200	47	33.3	26.6	20.0	11
'Like' schools best results in group for student group†	All	37	49	38.6	31.1	23.6	17
	Females	8	40	39.2	32.8	26.3	18
	Males	22	46	38.1	31.3	24.5	14



* 'Like' school average is average of all students in group, not average of school results

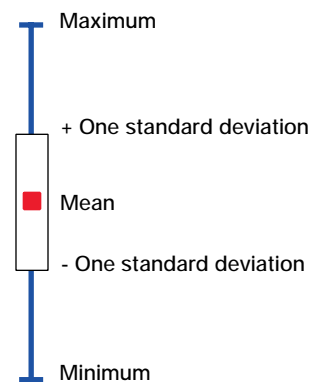
† 'Best' school is school for which mean score for that group of students was best out of all school with the same groups

STUDY SCORE DISTRIBUTION WITHIN THE SPECIFIED STUDY

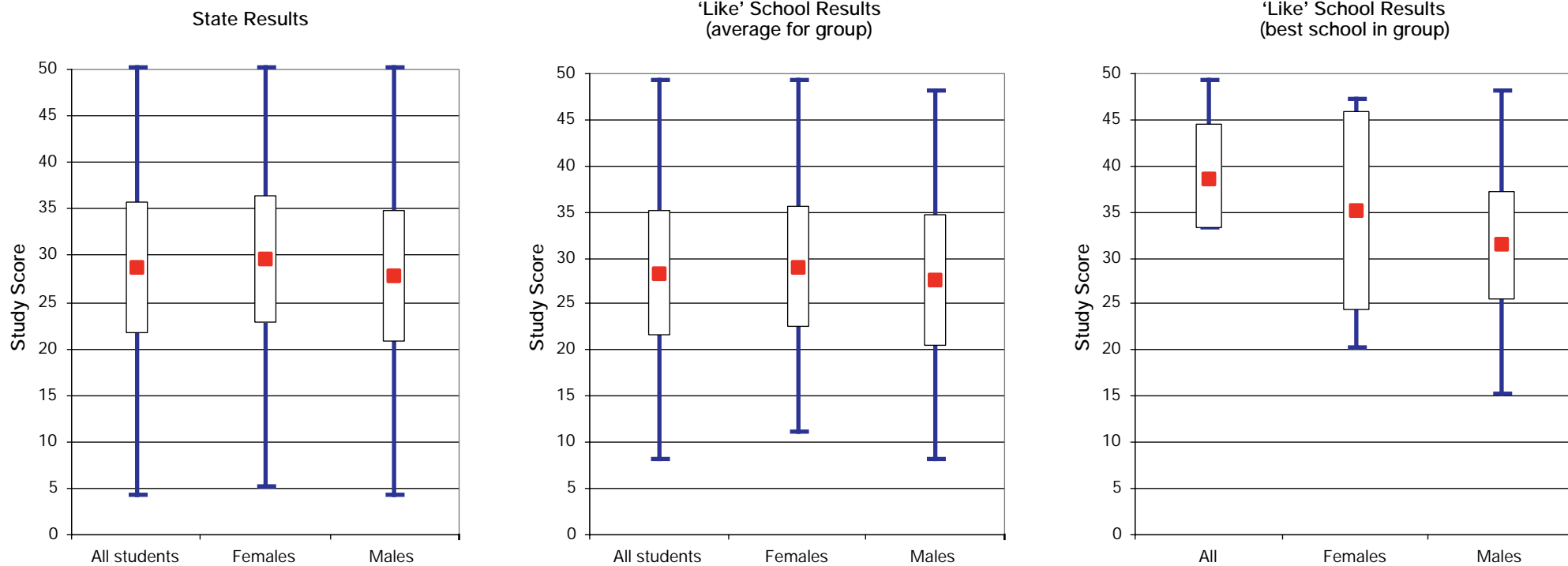
Subject: MA07 Further Mathematics

'Like' schools group: 7 Nil or very low proportions of LOTE speakers at home/High proportions of EMA or Austudy recipients

KEY



		No. students	Maximum	Mean + STD	Mean	Mean - STD	Minimum
State Results	All students	8296	50	35.7	28.8	21.8	4
	Females	4485	50	36.3	29.6	22.8	5
	Males	3811	50	35.0	27.9	20.8	4
'Like' schools average results for group*	All students	1143	49	35.2	28.4	21.6	8
	Females	623	49	35.6	29.1	22.5	11
	Males	520	48	34.6	27.6	20.6	8
'Like' schools best results in group for student group†	All	5	49	44.5	38.6	33.0	33
	Females	6	47	45.9	35.2	24.5	20
	Males	98	48	37.3	31.5	25.7	15



* 'Like' school average is average of all students in group, not average of school results

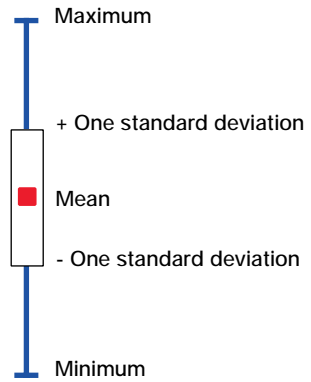
† 'Best' school is school for which mean score for that group of students was best out of all school with the same groups

STUDY SCORE DISTRIBUTION WITHIN THE SPECIFIED STUDY

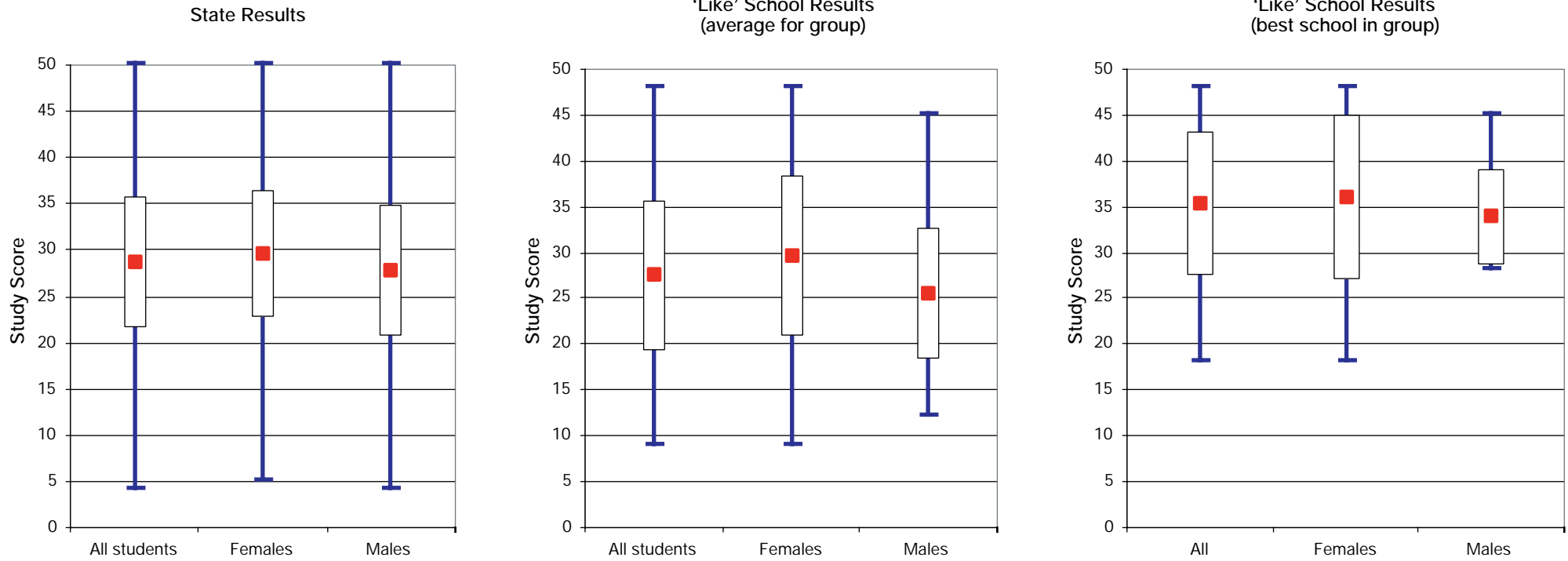
Subject: MA07 Further Mathematics

'Like' schools group: 8 Low proportions of LOTE speakers at home/High proportions of EMA or Austudy recipients

KEY



		No. students	Maximum	Mean + STD	Mean	Mean - STD	Minimum
State Results	All students	8296	50	35.7	28.8	21.8	4
	Females	4485	50	36.3	29.6	22.8	5
	Males	3811	50	35.0	27.9	20.8	4
'Like' schools average results for group*	All students	133	48	35.7	27.5	19.4	9
	Females	63	48	38.4	29.7	21.0	9
	Males	70	45	32.8	25.6	18.4	12
'Like' schools best results in group for student group†	All	22	48	43.2	35.4	27.6	18
	Females	14	48	45.0	36.1	27.3	18
	Males	8	45	39.1	34.0	28.9	28



* 'Like' school average is average of all students in group, not average of school results

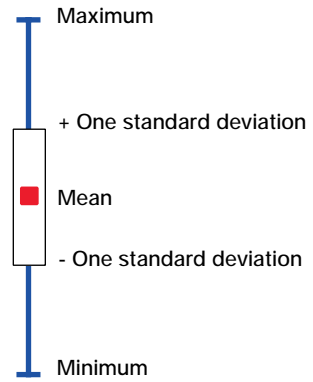
† 'Best' school is school for which mean score for that group of students was best out of all school with the same groups

STUDY SCORE DISTRIBUTION WITHIN THE SPECIFIED STUDY

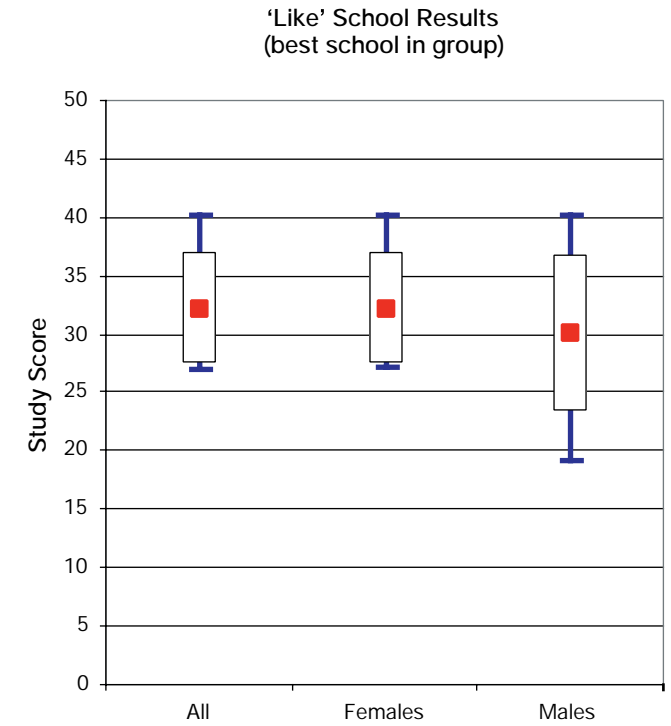
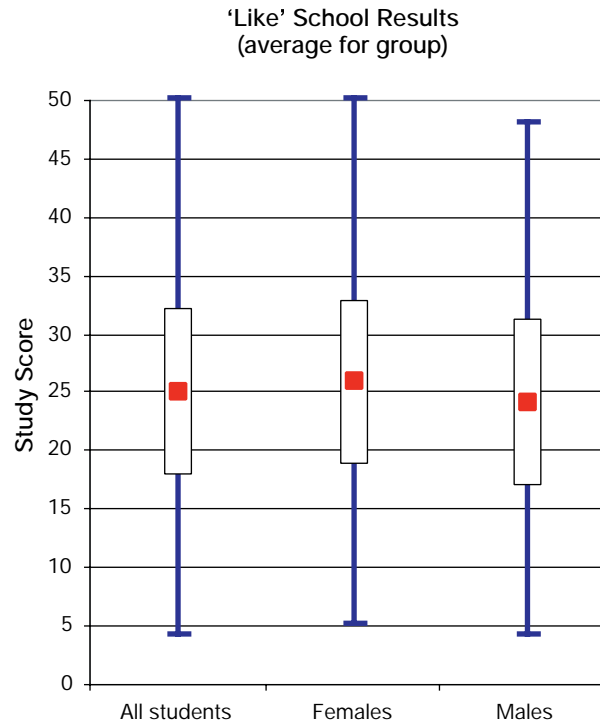
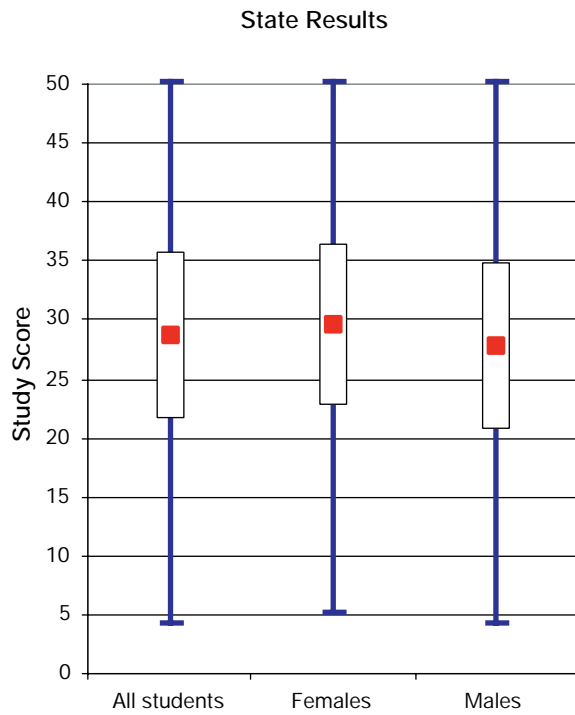
Subject: MA07 Further Mathematics

'Like' schools group: 9 Medium to high proportions of LOTE speakers at home/High proportions of EMA or Austudy recipients

KEY



		No. students	Maximum	Mean + STD	Mean	Mean - STD	Minimum
State Results	All students	8296	50	35.7	28.8	21.8	4
	Females	4485	50	36.3	29.6	22.8	5
	Males	3811	50	35.0	27.9	20.8	4
'Like' schools average results for group*	All students	1186	50	32.2	25.1	18.1	4
	Females	636	50	32.9	26.0	19.0	5
	Males	550	48	31.2	24.2	17.2	4
'Like' schools best results in group for student group†	All	7	40	36.9	32.3	27.6	27
	Females	7	40	36.9	32.3	27.6	27
	Males	15	40	36.9	30.2	23.5	19



* 'Like' school average is average of all students in group, not average of school results

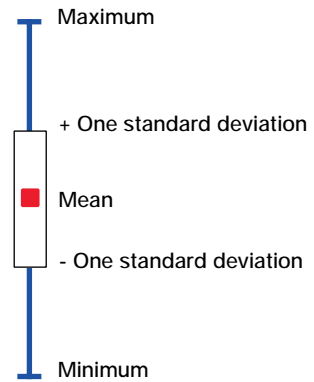
† 'Best' school is school for which mean score for that group of students was best out of all school with the same groups

STUDY SCORE DISTRIBUTION WITHIN THE SPECIFIED STUDY

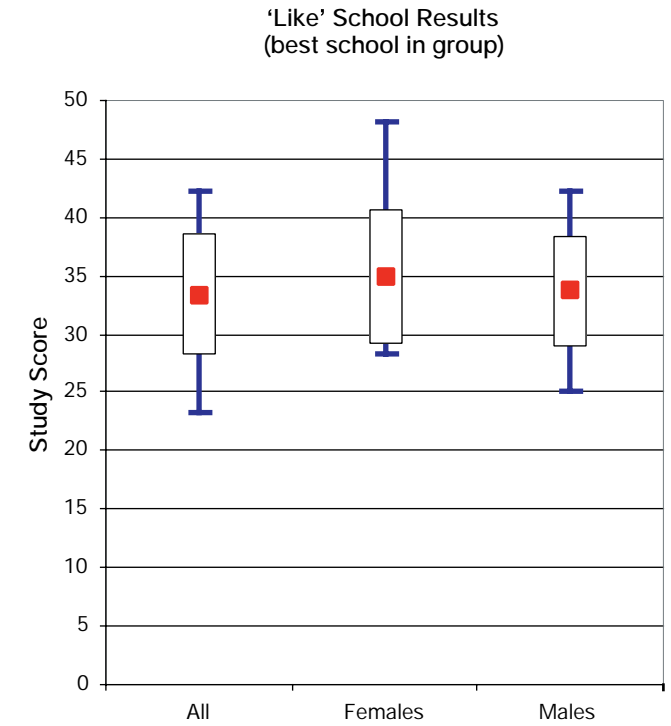
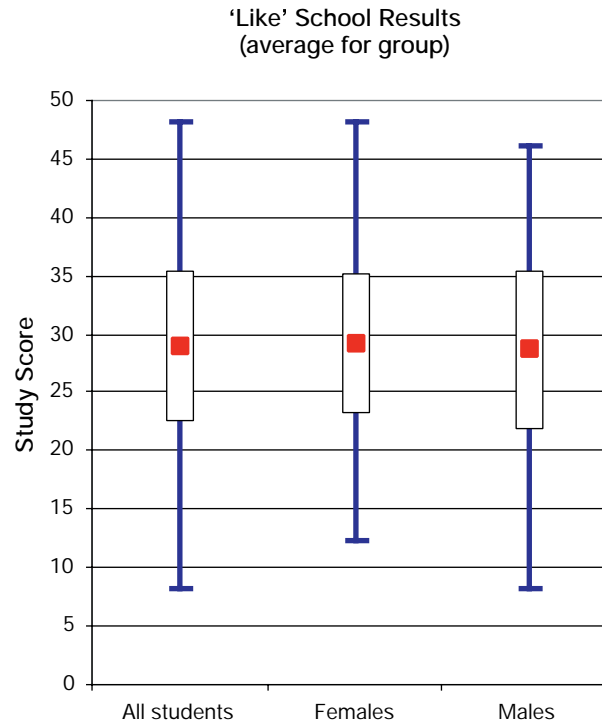
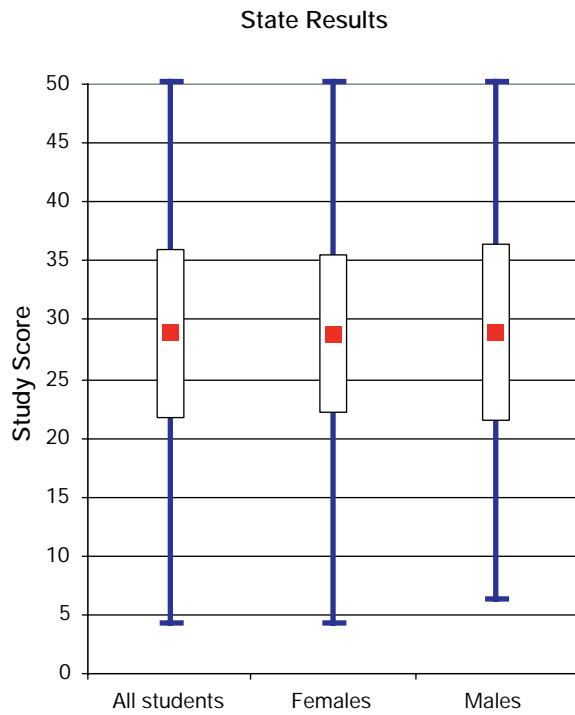
Subject: MA08 Mathematical Methods

'Like' schools group: 1 Nil or very low proportions of LOTE speakers at home/Low proportions of EMA or Austudy recipients

KEY



		No. students	Maximum	Mean + STD	Mean	Mean - STD	Minimum
State Results	All students	8437	50	36.0	28.9	21.8	4
	Females	3982	50	35.4	28.8	22.2	4
	Males	4455	50	36.5	29.0	21.5	6
'Like' schools average results for group*	All students	710	48	35.3	28.9	22.5	8
	Females	301	48	35.1	29.2	23.3	12
	Males	409	46	35.4	28.7	22.0	8
'Like' schools best results in group for student group†	All	25	42	38.5	33.4	28.3	23
	Females	12	48	40.7	34.9	29.1	28
	Males	13	42	38.4	33.7	29.0	25



* 'Like' school average is average of all students in group, not average of school results

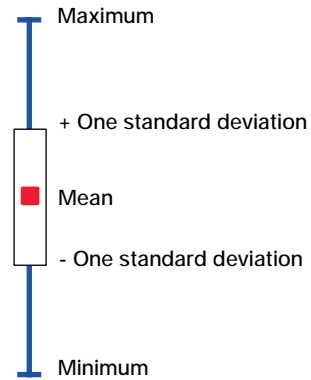
† 'Best' school is school for which mean score for that group of students was best out of all school with the same groups

STUDY SCORE DISTRIBUTION WITHIN THE SPECIFIED STUDY

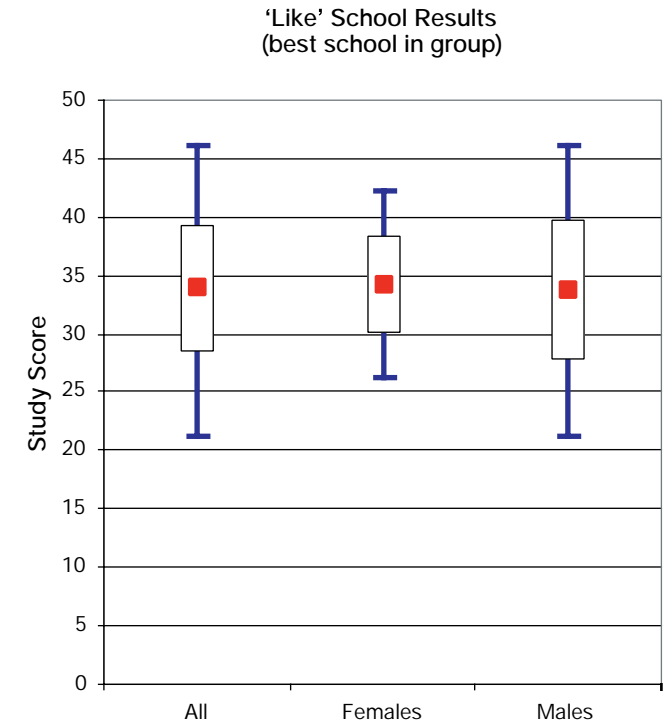
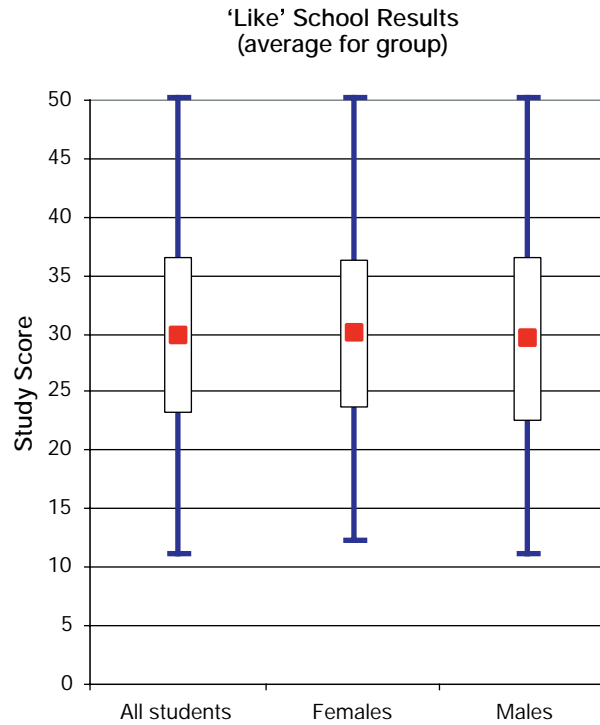
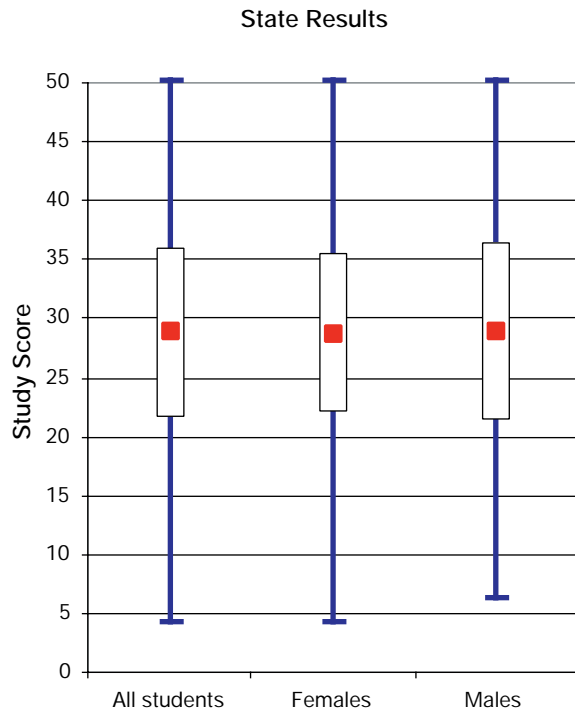
Subject: MA08 Mathematical Methods

'Like' schools group: 2 Low proportions of LOTE speakers at home/Low proportions of EMA or Austudy recipients

KEY



		No. students	Maximum	Mean + STD	Mean	Mean - STD	Minimum
State Results	All students	8437	50	36.0	28.9	21.8	4
	Females	3982	50	35.4	28.8	22.2	4
	Males	4455	50	36.5	29.0	21.5	6
'Like' schools average results for group*	All students	1169	50	36.5	29.9	23.2	11
	Females	588	50	36.4	30.1	23.8	12
	Males	581	50	36.6	29.6	22.6	11
'Like' schools best results in group for student group†	All	51	46	39.3	33.9	28.6	21
	Females	16	42	38.3	34.2	30.1	26
	Males	35	46	39.7	33.8	28.0	21



* 'Like' school average is average of all students in group, not average of school results

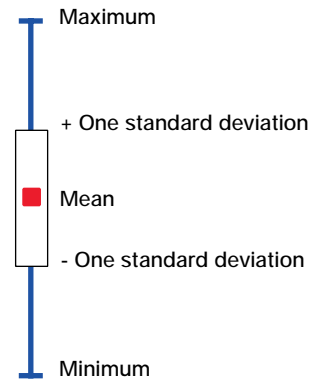
† 'Best' school is school for which mean score for that group of students was best out of all school with the same groups

STUDY SCORE DISTRIBUTION WITHIN THE SPECIFIED STUDY

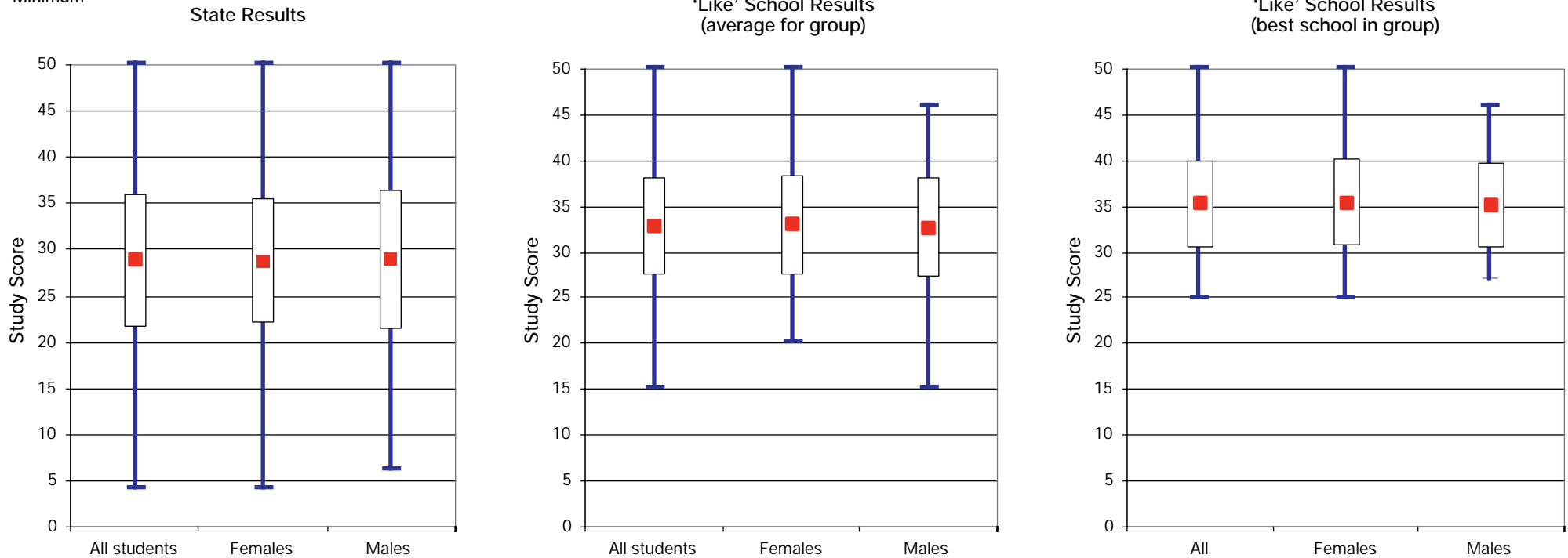
Subject: MA08 Mathematical Methods

'Like' schools group: 3 Medium to high proportions of LOTE speakers at home/Low proportions of EMA or Austudy recipients

KEY



		No. students	Maximum	Mean + STD	Mean	Mean - STD	Minimum
State Results	All students	8437	50	36.0	28.9	21.8	4
	Females	3982	50	35.4	28.8	22.2	4
	Males	4455	50	36.5	29.0	21.5	6
'Like' schools average results for group*	All students	541	50	38.2	32.8	27.5	15
	Females	254	50	38.3	33.0	27.7	20
	Males	287	46	38.0	32.7	27.3	15
'Like' schools best results in group for student group†	All	137	50	39.9	35.3	30.7	25
	Females	66	50	40.2	35.5	30.8	25
	Males	71	46	39.7	35.2	30.6	27



* 'Like' school average is average of all students in group, not average of school results

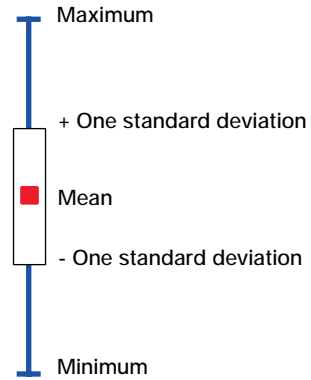
† 'Best' school is school for which mean score for that group of students was best out of all school with the same groups

STUDY SCORE DISTRIBUTION WITHIN THE SPECIFIED STUDY

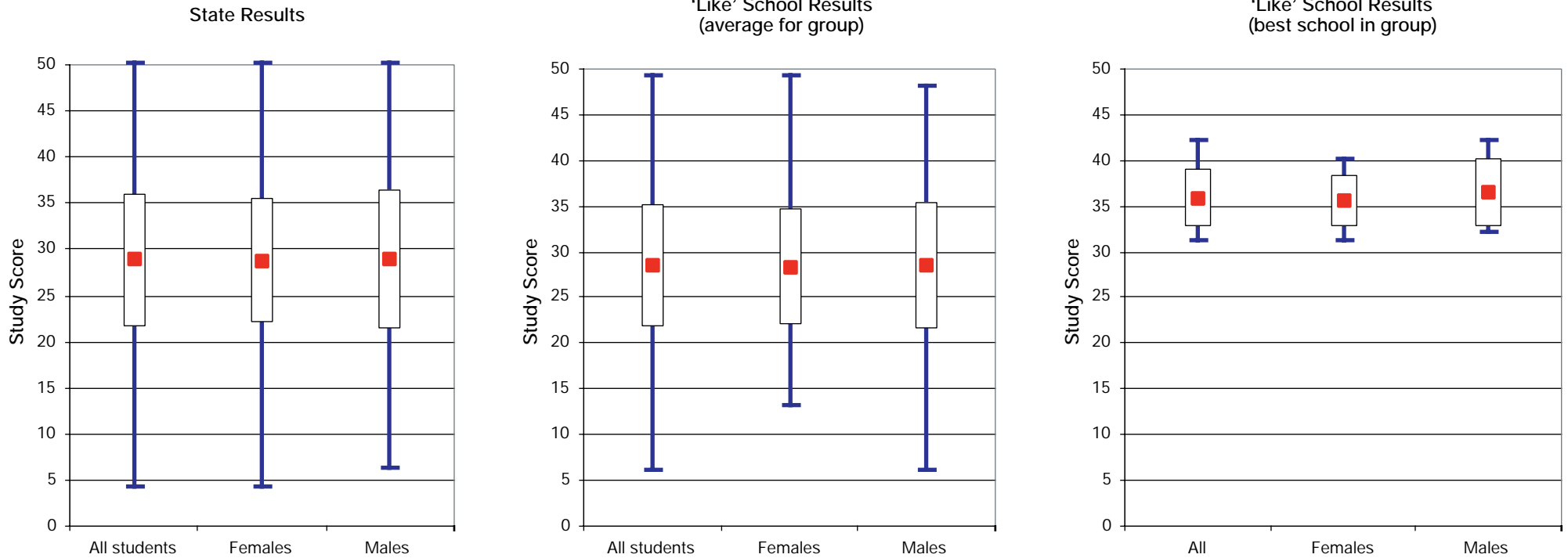
Subject: MA08 Mathematical Methods

'Like' schools group: 4 Nil or very low proportions of LOTE speakers at home/Medium proportions of EMA or Austudy recipients

KEY



		No. students	Maximum	Mean + STD	Mean	Mean - STD	Minimum
State Results	All students	8437	50	36.0	28.9	21.8	4
	Females	3982	50	35.4	28.8	22.2	4
	Males	4455	50	36.5	29.0	21.5	6
'Like' schools average results for group*	All students	1642	49	35.1	28.5	22.0	6
	Females	768	49	34.7	28.4	22.2	13
	Males	874	48	35.5	28.6	21.8	6
'Like' schools best results in group for student group†	All	15	42	39.1	35.9	32.8	31
	Females	10	40	38.4	35.6	32.8	31
	Males	5	42	40.3	36.6	32.9	32



* 'Like' school average is average of all students in group, not average of school results

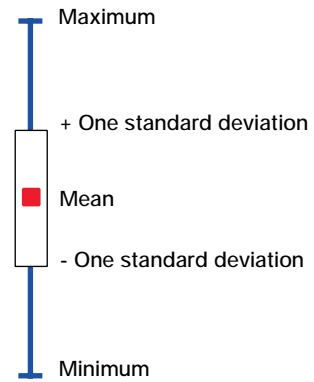
† 'Best' school is school for which mean score for that group of students was best out of all school with the same groups

STUDY SCORE DISTRIBUTION WITHIN THE SPECIFIED STUDY

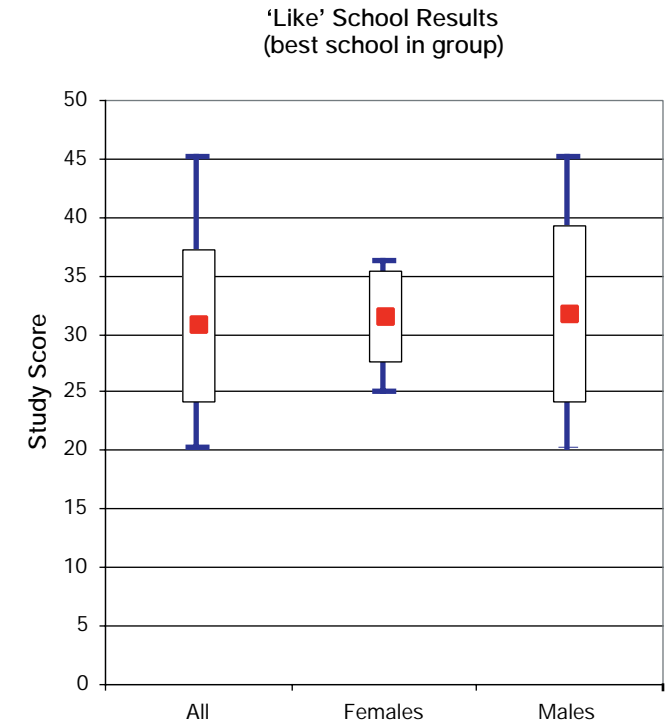
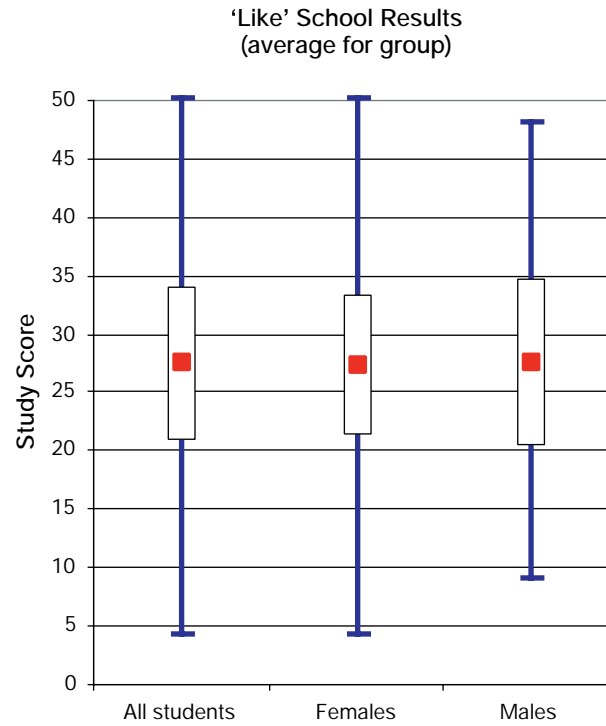
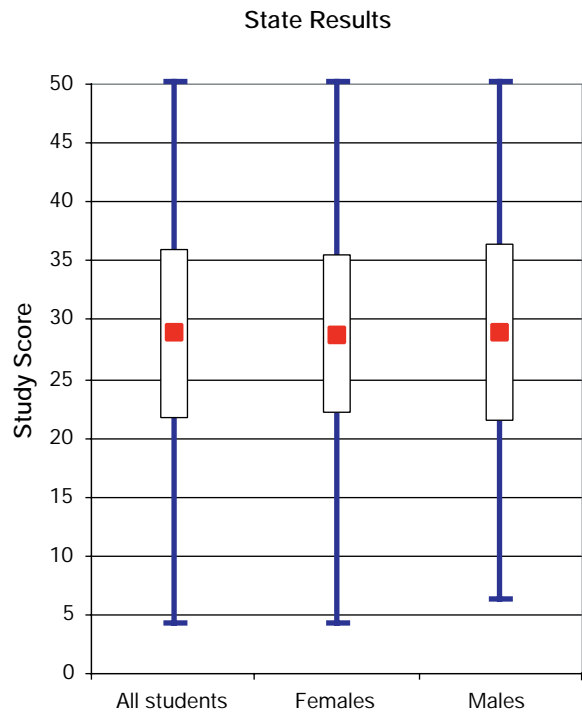
Subject: MA08 Mathematical Methods

'Like' schools group: 5 Low proportions of LOTE speakers at home/Medium proportions of EMA or Austudy recipients

KEY



		No. students	Maximum	Mean + STD	Mean	Mean - STD	Minimum
State Results	All students	8437	50	36.0	28.9	21.8	4
	Females	3982	50	35.4	28.8	22.2	4
	Males	4455	50	36.5	29.0	21.5	6
'Like' schools average results for group*	All students	1177	50	34.1	27.5	21.0	4
	Females	559	50	33.4	27.5	21.5	4
	Males	618	48	34.6	27.6	20.6	9
'Like' schools best results in group for student group†	All	36	45	37.2	30.8	24.3	20
	Females	10	36	35.4	31.5	27.6	25
	Males	24	45	39.3	31.7	24.1	20



* 'Like' school average is average of all students in group, not average of school results

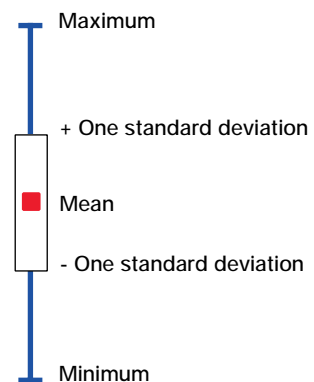
† 'Best' school is school for which mean score for that group of students was best out of all school with the same groups

STUDY SCORE DISTRIBUTION WITHIN THE SPECIFIED STUDY

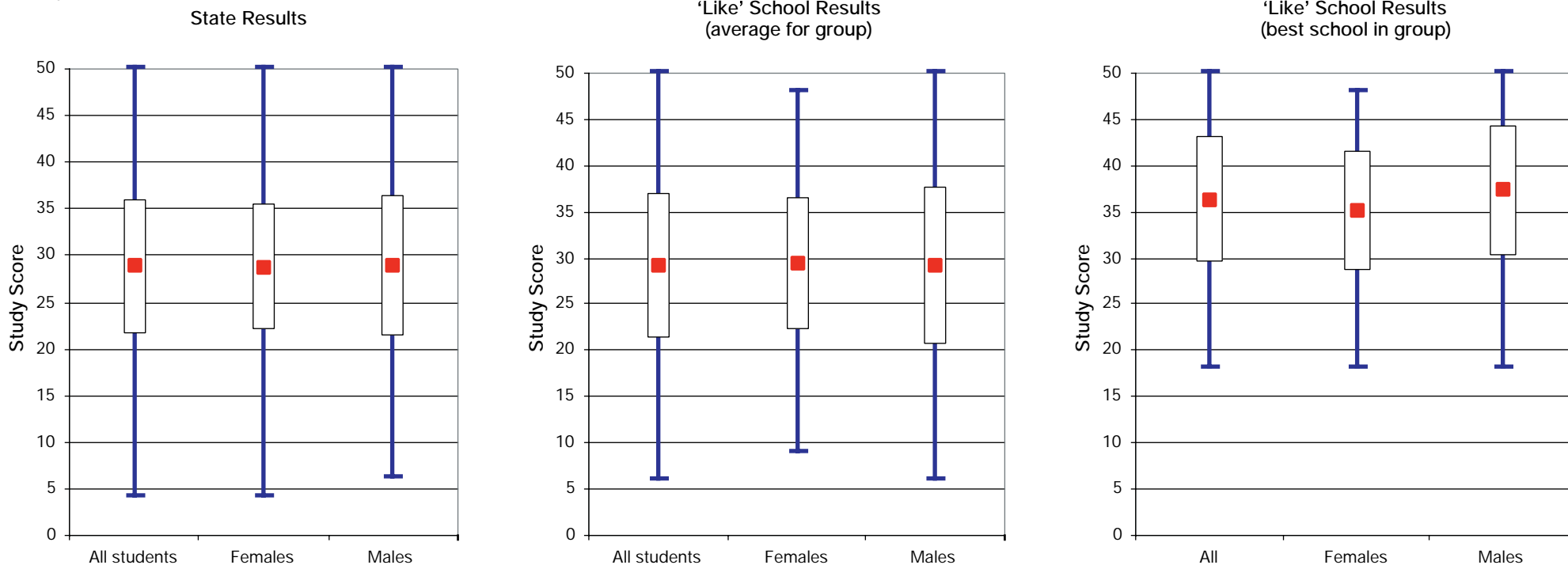
Subject: MA08 Mathematical Methods

'Like' schools group: 6 Medium to high proportions of LOTE speakers at home/Medium proportions of EMA or Austudy recipients

KEY



		No. students	Maximum	Mean + STD	Mean	Mean - STD	Minimum
State Results	All students	8437	50	36.0	28.9	21.8	4
	Females	3982	50	35.4	28.8	22.2	4
	Males	4455	50	36.5	29.0	21.5	6
'Like' schools average results for group*	All students	615	50	37.1	29.3	21.6	6
	Females	303	48	36.5	29.4	22.3	9
	Males	312	50	37.6	29.2	20.9	6
'Like' schools best results in group for student group†	All	116	50	43.2	36.4	29.6	18
	Females	52	48	41.6	35.2	28.7	18
	Males	64	50	44.3	37.4	30.4	18



* 'Like' school average is average of all students in group, not average of school results

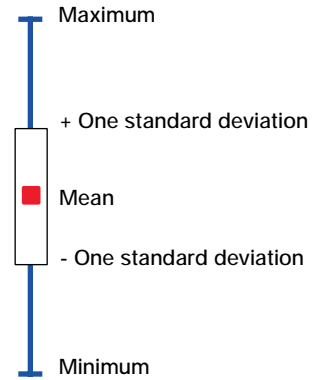
† 'Best' school is school for which mean score for that group of students was best out of all school with the same groups

STUDY SCORE DISTRIBUTION WITHIN THE SPECIFIED STUDY

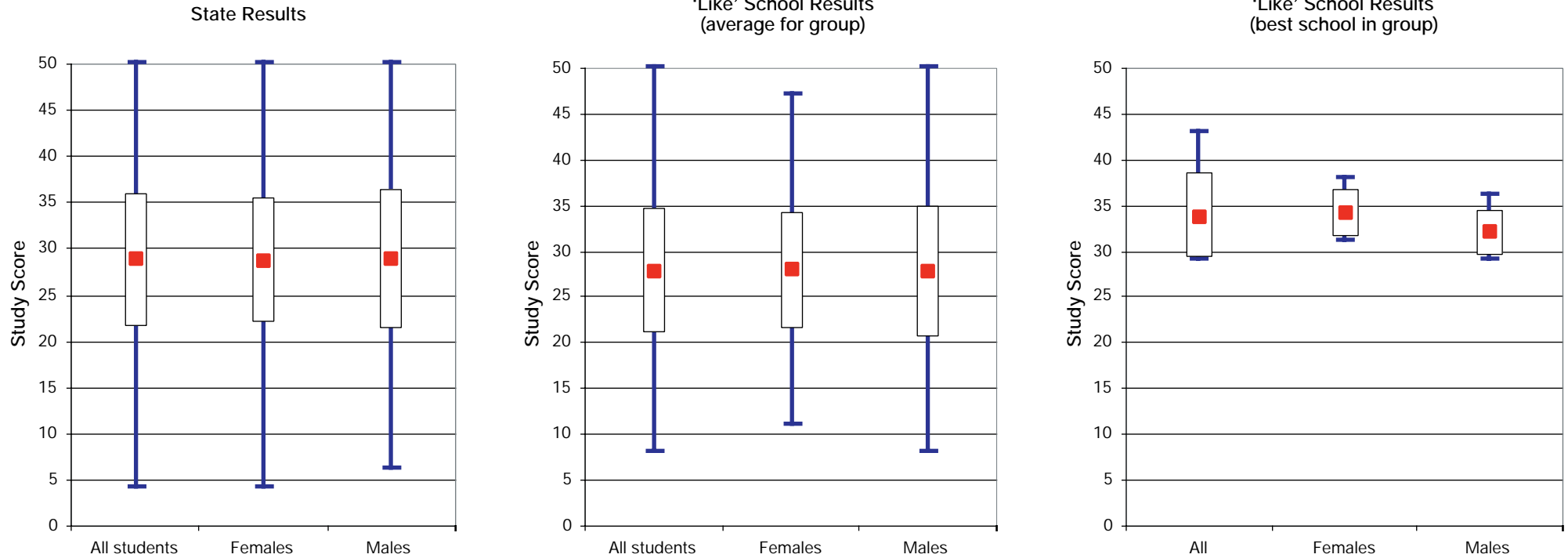
Subject: MA08 Mathematical Methods

'Like' schools group: 7 Nil or very low proportions of LOTE speakers at home/High proportions of EMA or Austudy recipients

KEY



		No. students	Maximum	Mean + STD	Mean	Mean - STD	Minimum
State Results	All students	8437	50	36.0	28.9	21.8	4
	Females	3982	50	35.4	28.8	22.2	4
	Males	4455	50	36.5	29.0	21.5	6
'Like' schools average results for group*	All students	896	50	34.6	27.9	21.2	8
	Females	424	47	34.2	28.0	21.8	11
	Males	472	50	34.9	27.8	20.7	8
'Like' schools best results in group for student group†	All	9	43	38.5	33.9	29.3	29
	Females	6	38	36.7	34.2	31.6	31
	Males	7	36	34.6	32.1	29.7	29



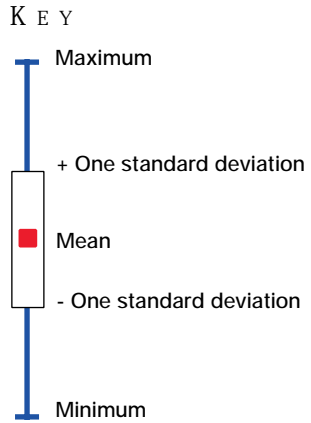
* 'Like' school average is average of all students in group, not average of school results

† 'Best' school is school for which mean score for that group of students was best out of all school with the same groups

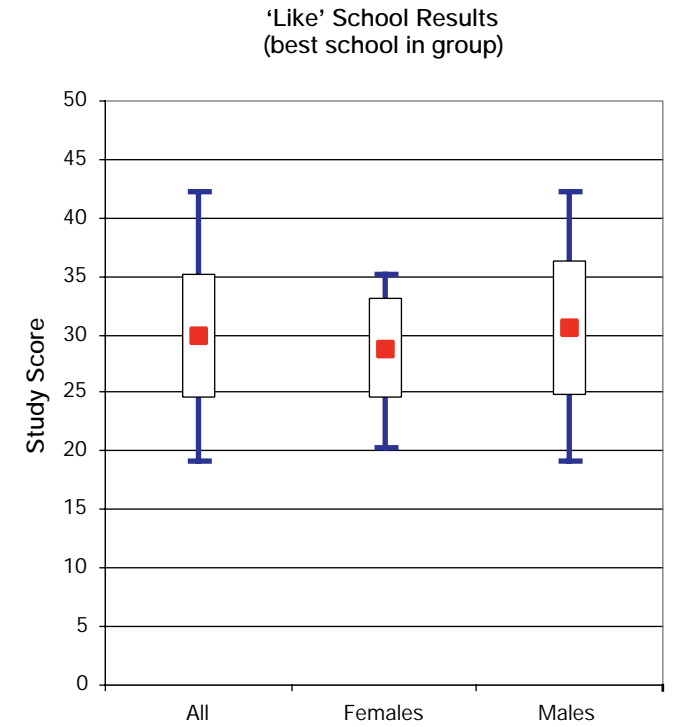
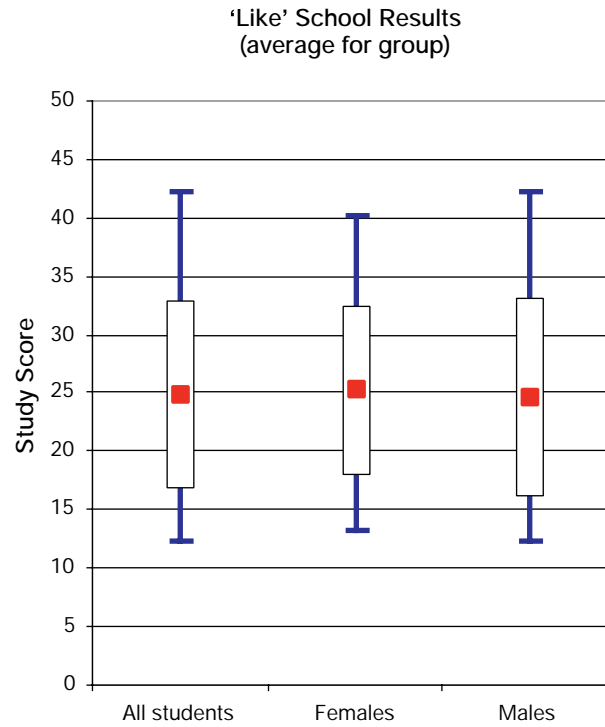
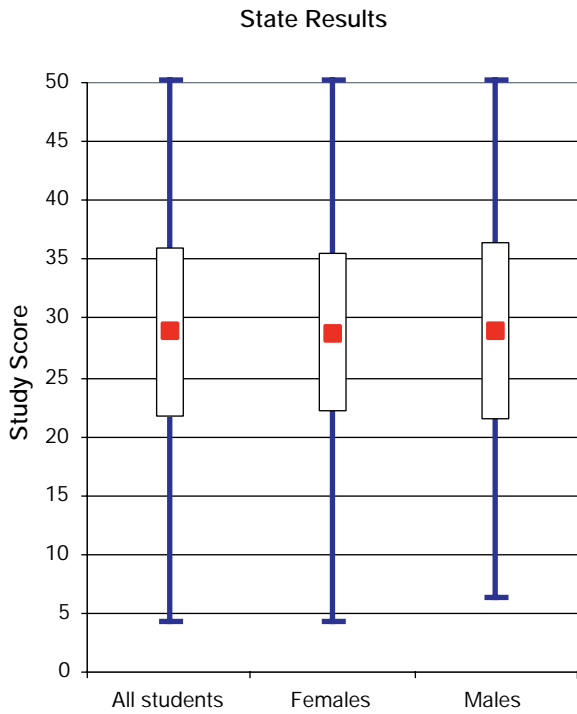
STUDY SCORE DISTRIBUTION WITHIN THE SPECIFIED STUDY

Subject: MA08 Mathematical Methods

'Like' schools group: 8 Low proportions of LOTE speakers at home/High proportions of EMA or Austudy recipients



		No. students	Maximum	Mean + STD	Mean	Mean - STD	Minimum
State Results	All students	8437	50	36.0	28.9	21.8	4
	Females	3982	50	35.4	28.8	22.2	4
	Males	4455	50	36.5	29.0	21.5	6
'Like' schools average results for group*	All students	63	42	32.9	24.9	16.8	12
	Females	24	40	32.4	25.3	18.1	13
	Males	39	42	33.2	24.6	16.1	12
'Like' schools best results in group for student group†	All	24	42	35.1	29.8	24.6	19
	Females	10	35	33.0	28.8	24.6	20
	Males	14	42	36.3	30.6	24.8	19



* 'Like' school average is average of all students in group, not average of school results

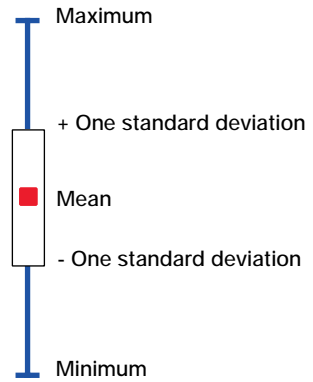
† 'Best' school is school for which mean score for that group of students was best out of all school with the same groups

STUDY SCORE DISTRIBUTION WITHIN THE SPECIFIED STUDY

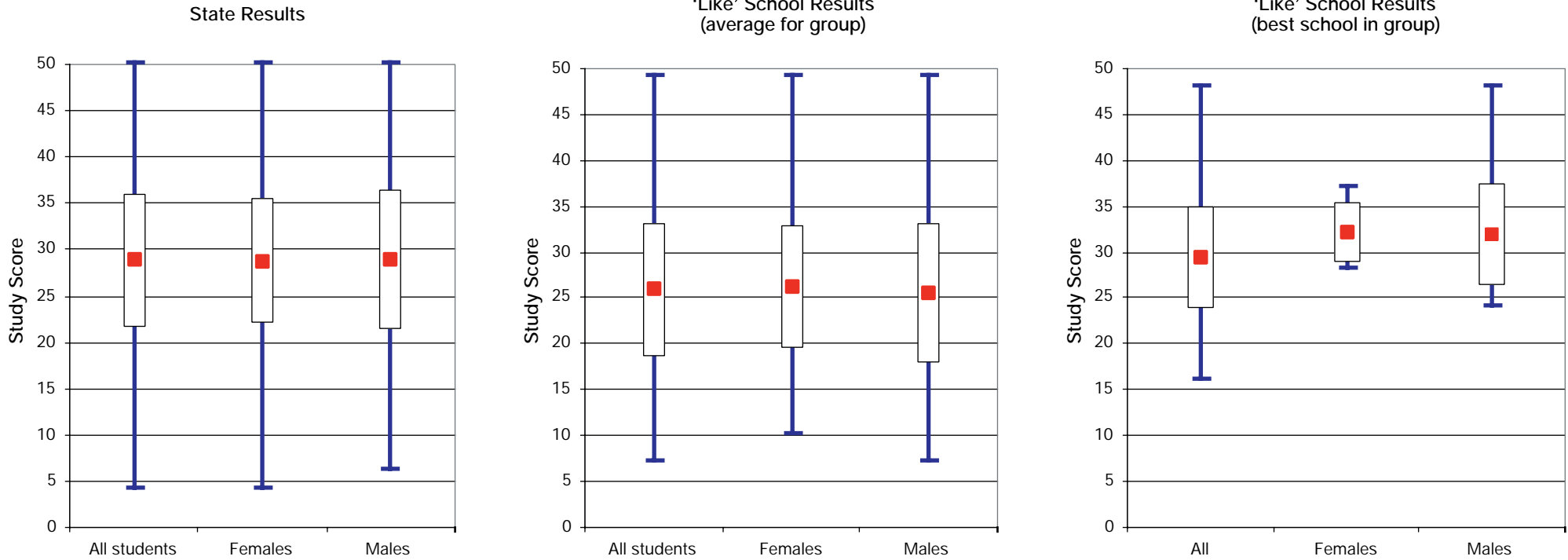
Subject: MA08 Mathematical Methods

'Like' schools group: 9 Medium to high proportions of LOTE speakers at home/High proportions of EMA or Austudy recipients

KEY



		No. students	Maximum	Mean + STD	Mean	Mean - STD	Minimum
State Results	All students	8437	50	36.0	28.9	21.8	4
	Females	3982	50	35.4	28.8	22.2	4
	Males	4455	50	36.5	29.0	21.5	6
'Like' schools average results for group*	All students	1167	49	33.0	25.9	18.8	7
	Females	595	49	32.8	26.2	19.6	10
	Males	572	49	33.2	25.6	18.1	7
'Like' schools best results in group for student group†	All	39	48	35.0	29.5	23.9	16
	Females	5	37	35.3	32.2	29.1	28
	Males	20	48	37.4	31.9	26.4	24



* 'Like' school average is average of all students in group, not average of school results

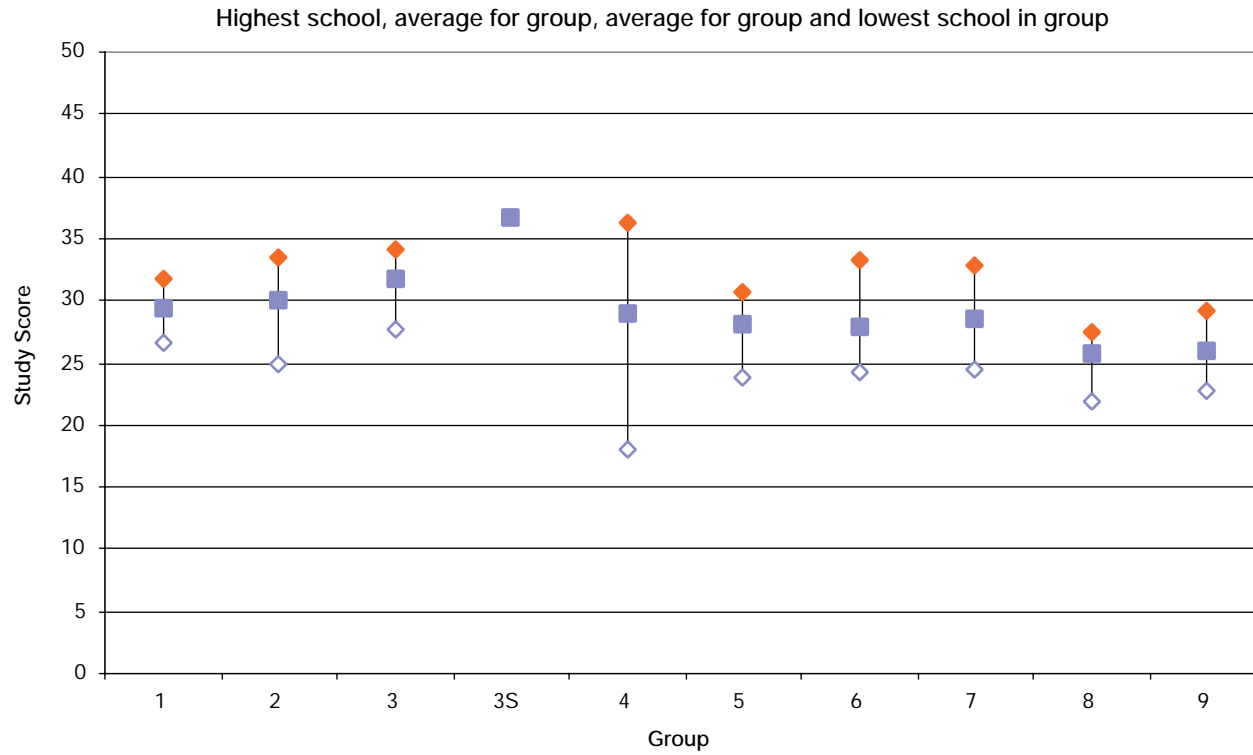
† 'Best' school is school for which mean score for that group of students was best out of all school with the same groups

SELECTED STUDIES STUDY SCORES: HIGHEST, AVERAGE AND LOWEST SCHOOL IN GROUP

Study: All studies

Group	1	2	3	3S	4	5	6	7	8	9
Highest school average	31.8	33.4	34.1		36.3	30.7	33.2	32.9	27.5	29.3
Average for group*	29.5	30.1	31.7	36.7	29.0	28.0	27.9	28.5	25.7	26.0
Lowest school average	26.6	24.8	27.6		17.9	23.7	24.2	24.5	21.9	22.7

- ◆ Highest school average
- Average for group*
- ◇ Lowest school average



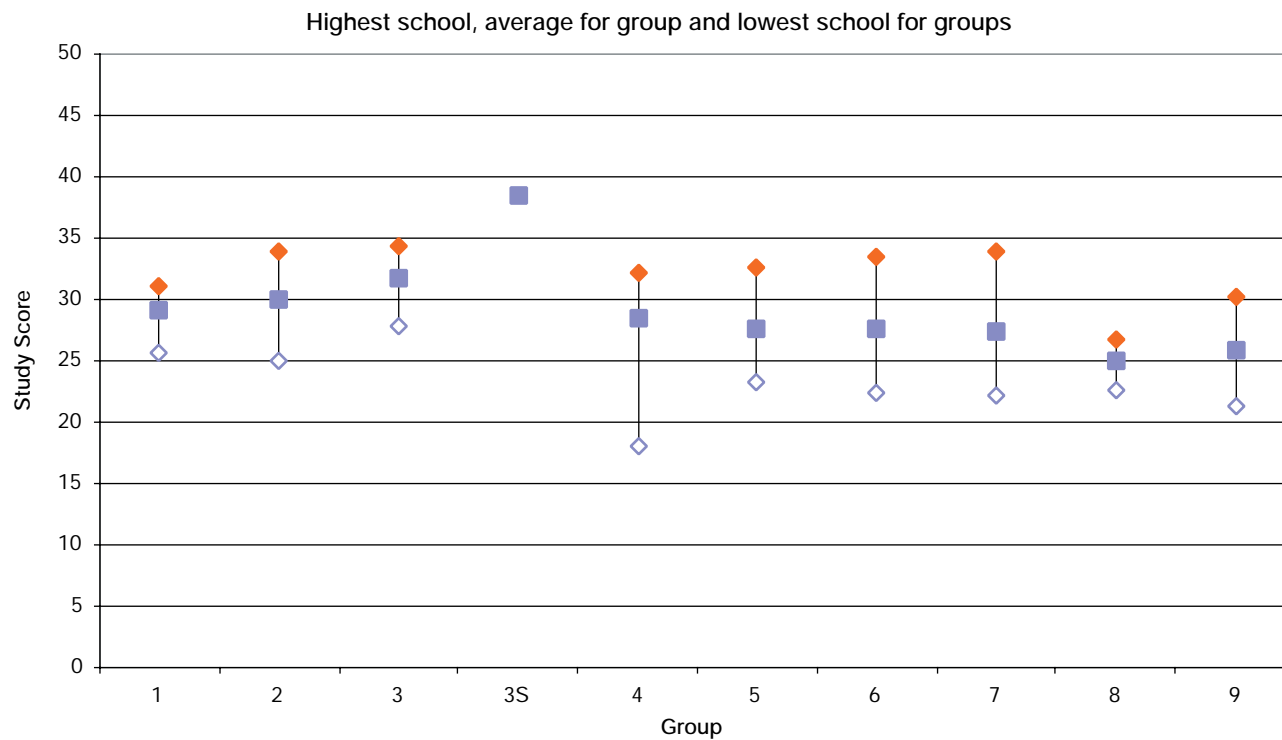
* 'Average for group' is average of all students in group, not average of school results

SELECTED STUDIES STUDY SCORES: HIGHEST, AVERAGE AND LOWEST SCHOOL IN GROUP

Study: EN01 English

Group	1	2	3	3S	4	5	6	7	8	9
Highest school average	31.1	33.9	34.4		32.3	32.7	33.5	33.9	26.8	30.1
Average for group*	29.1	30.1	31.7	38.6	28.5	27.7	27.6	27.5	25.0	25.8
Lowest school average	25.6	25.0	27.8		18.0	23.2	22.5	22.2	22.5	21.2

- ◆ Highest school average
- Average for group*
- ◇ Lowest school average

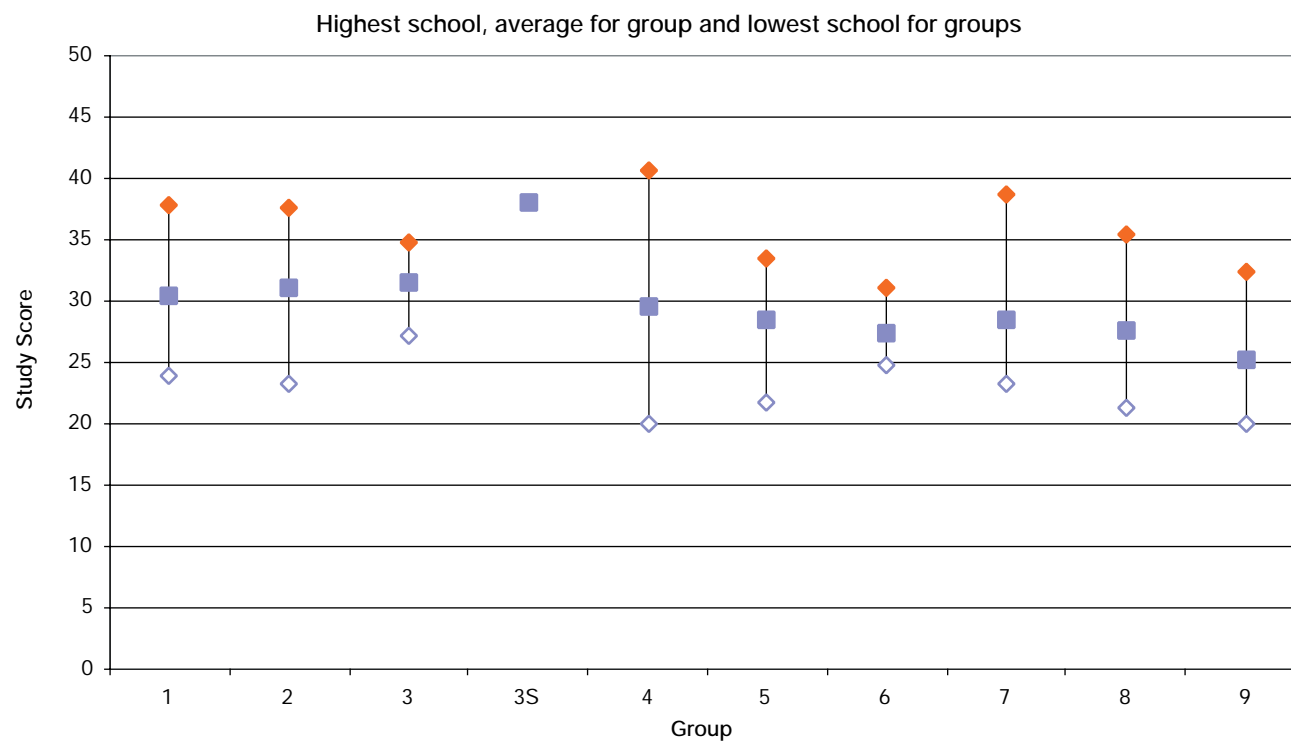


* 'Average for group' is average of all students in group, not average of school results

SELECTED STUDIES STUDY SCORES: HIGHEST, AVERAGE AND LOWEST SCHOOL IN GROUP
 Study: MA07 Further Mathematics

Group	1	2	3	3S	4	5	6	7	8	9
Highest school average	37.8	37.6	34.8		40.6	33.6	31.1	38.6	35.4	32.3
Average for group*	30.4	31.1	31.5	38.1	29.6	28.4	27.5	28.4	27.5	25.1
Lowest school average	24.0	23.2	27.1		20.0	21.7	24.8	23.2	21.3	19.9

- ◆ Highest school average
- Average for group*
- ◇ Lowest school average



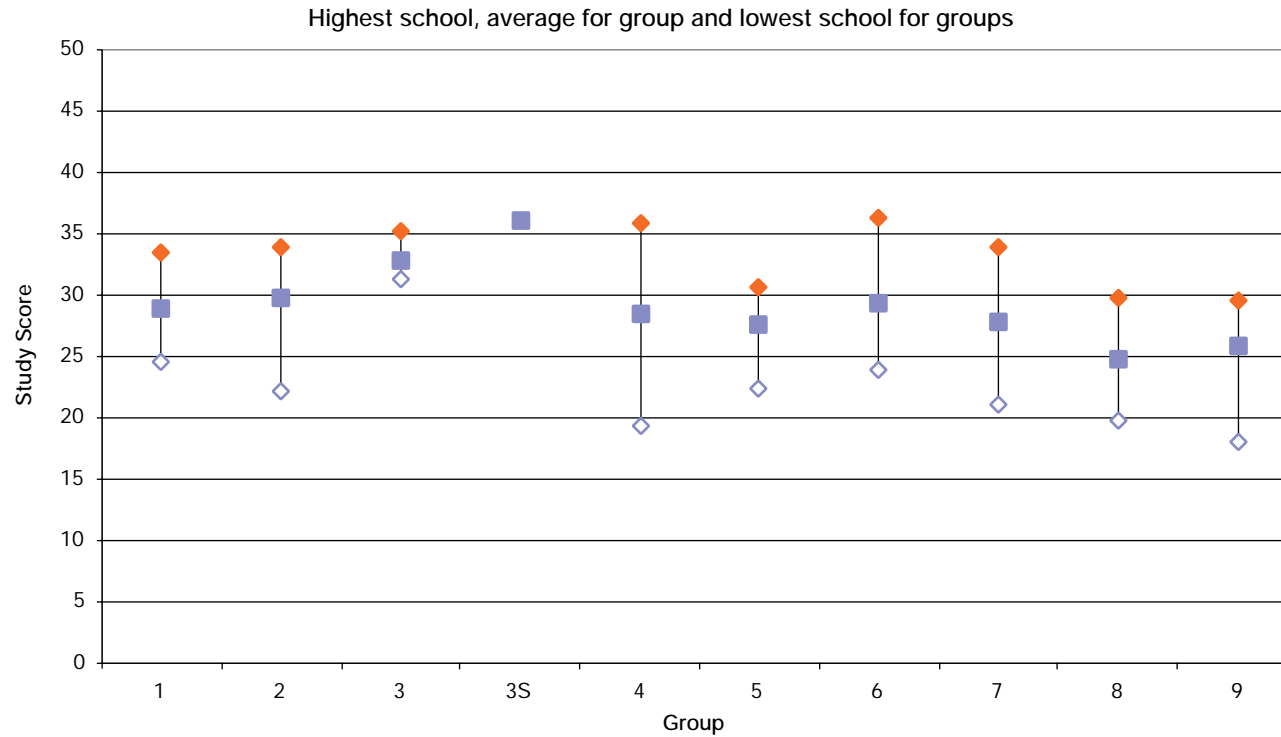
* 'Average for group' is average of all students in group, not average of school results

SELECTED STUDIES STUDY SCORES: HIGHEST, AVERAGE AND LOWEST SCHOOL IN GROUP

Study: MA08 Mathematical Methods

Group	1	2	3	3S	4	5	6	7	8	9
Highest school average	33.4	33.9	35.3		35.9	30.8	36.4	33.9	29.8	29.5
Average for group*	28.9	29.9	32.8	36.1	28.5	27.5	29.3	27.9	24.9	25.9
Lowest school average	24.7	22.3	31.3		19.4	22.4	23.9	21.1	19.7	18.0

- ◆ Highest school average
- Average for group*
- ◇ Lowest school average

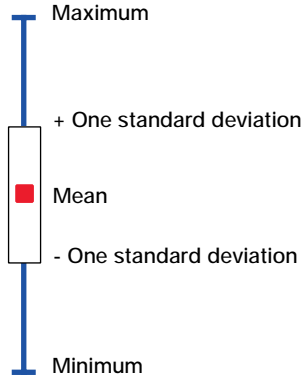


* 'Average for group' is average of all students in group, not average of school results

SELECTED STUDIES STUDY SCORES: DISTRIBUTION BY SCHOOL TYPE

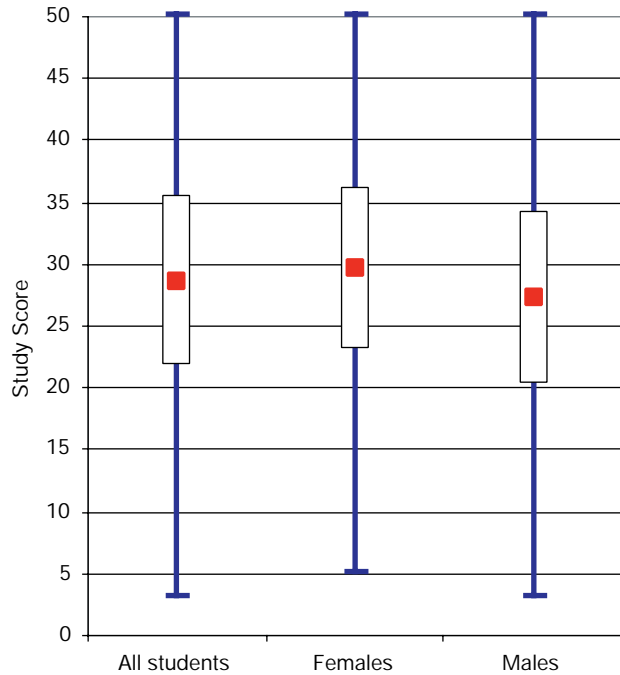
Subject: EN01 English

KEY

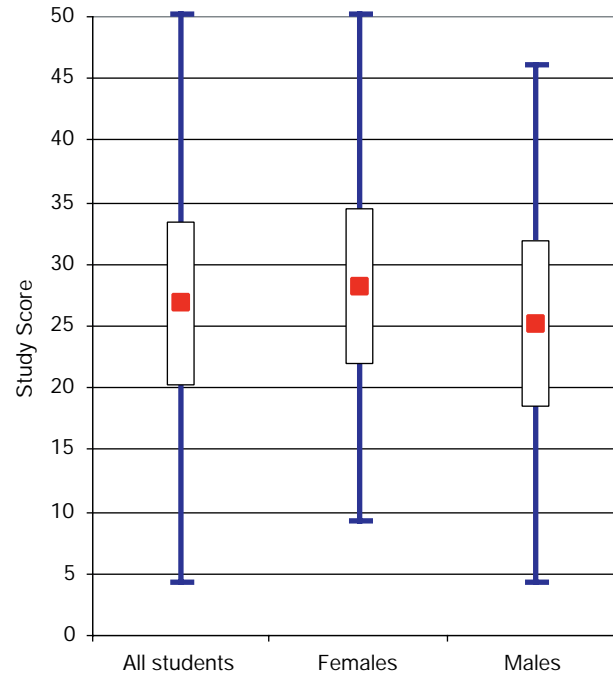


		No. students	Maximum	Mean + STD	Mean	Mean - STD	Minimum
Stand alone 7-12 colleges	All students	18569	50	35.5	28.7	21.9	3
	Females	10459	50	36.3	29.7	23.2	5
	Males	8110	50	34.3	27.4	20.5	3
Multi-campus colleges	All students	3755	50	33.5	26.9	20.2	4
	Females	2056	50	34.5	28.3	22.0	9
	Males	1699	46	31.9	25.2	18.5	4
Senior secondary colleges	All students	1292	47	34.9	28.1	21.2	6
	Females	688	46	35.8	29.7	23.5	10
	Males	604	47	33.3	26.2	19.2	6

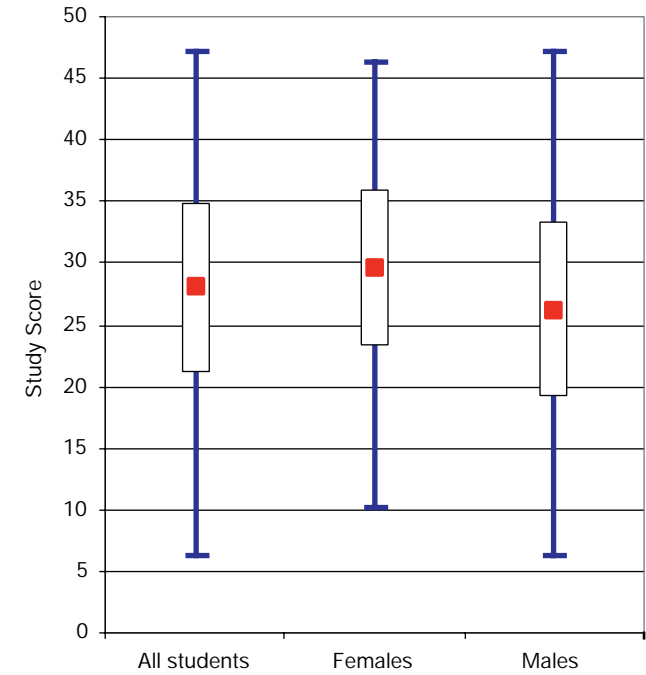
Stand alone 7-12 colleges



Multi-campus colleges



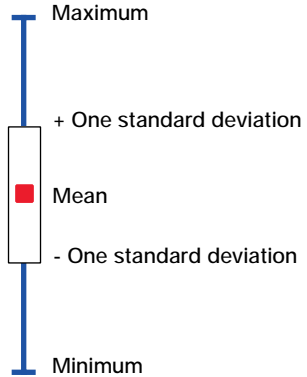
Senior secondary colleges



SELECTED STUDIES STUDY SCORES: DISTRIBUTION BY SCHOOL TYPE

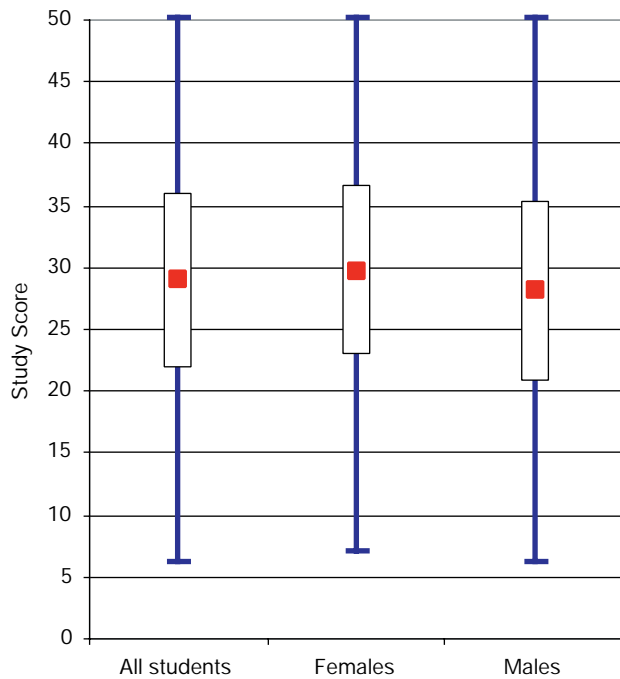
Subject: MA07 Further Mathematics

KEY

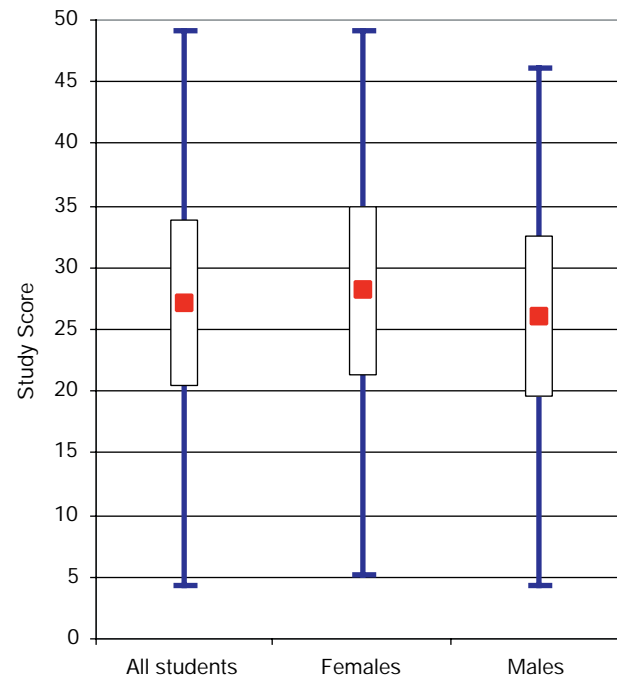


		No. students	Maximum	Mean + STD	Mean	Mean - STD	Minimum
Stand alone 7-12 colleges	All students	6437	50	36.1	29.1	22.0	6
	Females	3498	50	36.6	29.8	23.0	7
	Males	2939	50	35.4	28.2	21.0	6
Multi-campus colleges	All students	1494	49	33.9	27.2	20.5	4
	Females	820	49	34.8	28.1	21.4	5
	Males	674	46	32.5	26.0	19.5	4
Senior secondary colleges	All students	365	48	36.6	30.6	24.6	11
	Females	167	45	37.2	31.7	26.2	15
	Males	198	48	35.9	29.7	23.5	11

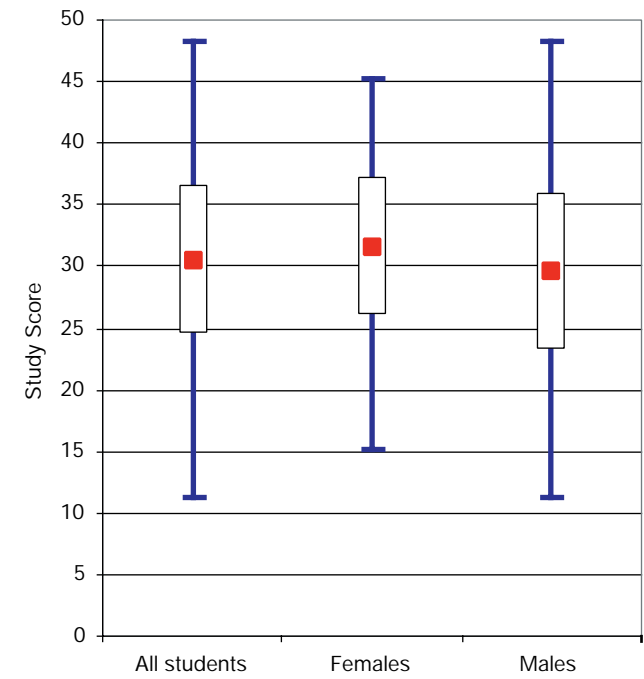
Stand alone 7-12 colleges



Multi-campus colleges



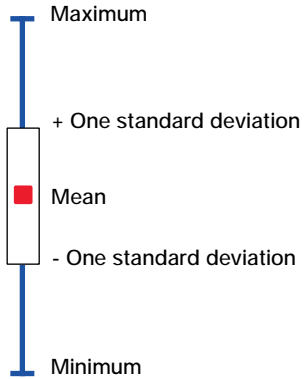
Senior secondary colleges



SELECTED STUDIES STUDY SCORES: DISTRIBUTION BY SCHOOL TYPE

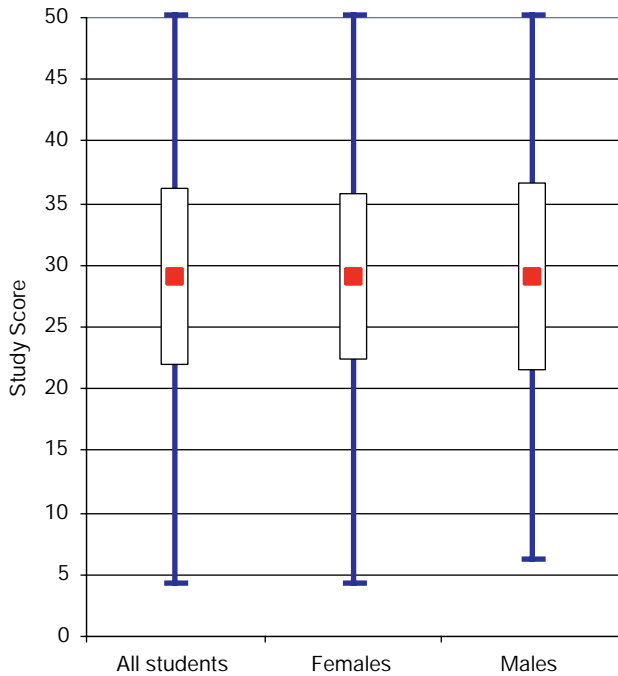
Subject: MA08 Mathematical Methods

KEY

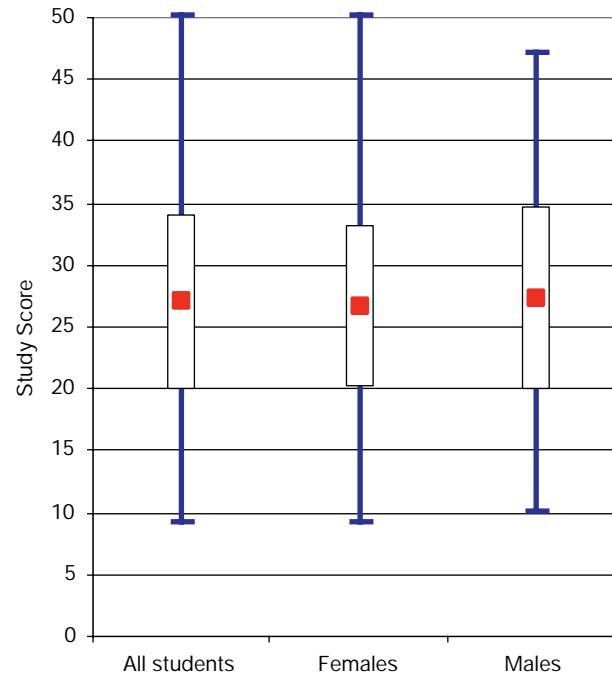


		No. students	Maximum	Mean + STD	Mean	Mean - STD	Minimum
Stand alone 7-12 colleges	All students	7107	50	36.2	29.1	22.0	4
	Females	3362	50	35.7	29.1	22.5	4
	Males	3745	50	36.7	29.2	21.6	6
Multi-campus colleges	All students	1055	50	34.0	27.1	20.1	9
	Females	487	50	33.2	26.7	20.2	9
	Males	568	47	34.6	27.4	20.1	10
Senior secondary colleges	All students	275	47	36.1	30.1	24.2	14
	Females	133	45	36.0	30.4	24.8	15
	Males	142	47	36.1	29.8	23.6	14

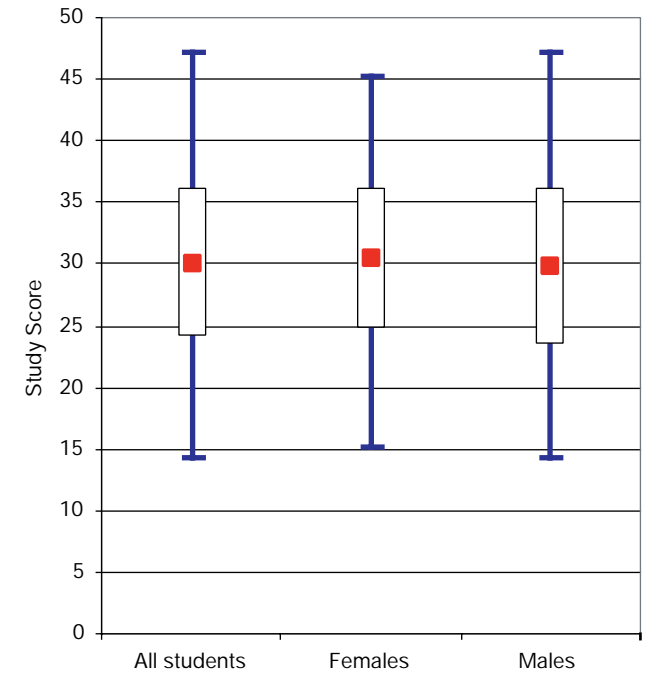
Stand alone 7-12 colleges



Multi-campus colleges



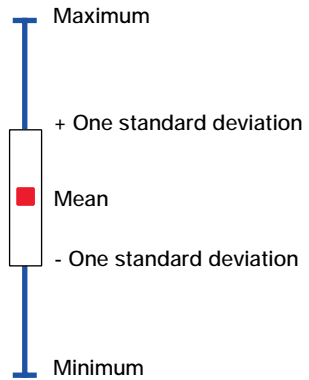
Senior secondary colleges



SELECTED STUDIES STUDY SCORES: DISTRIBUTION BY LOCATION

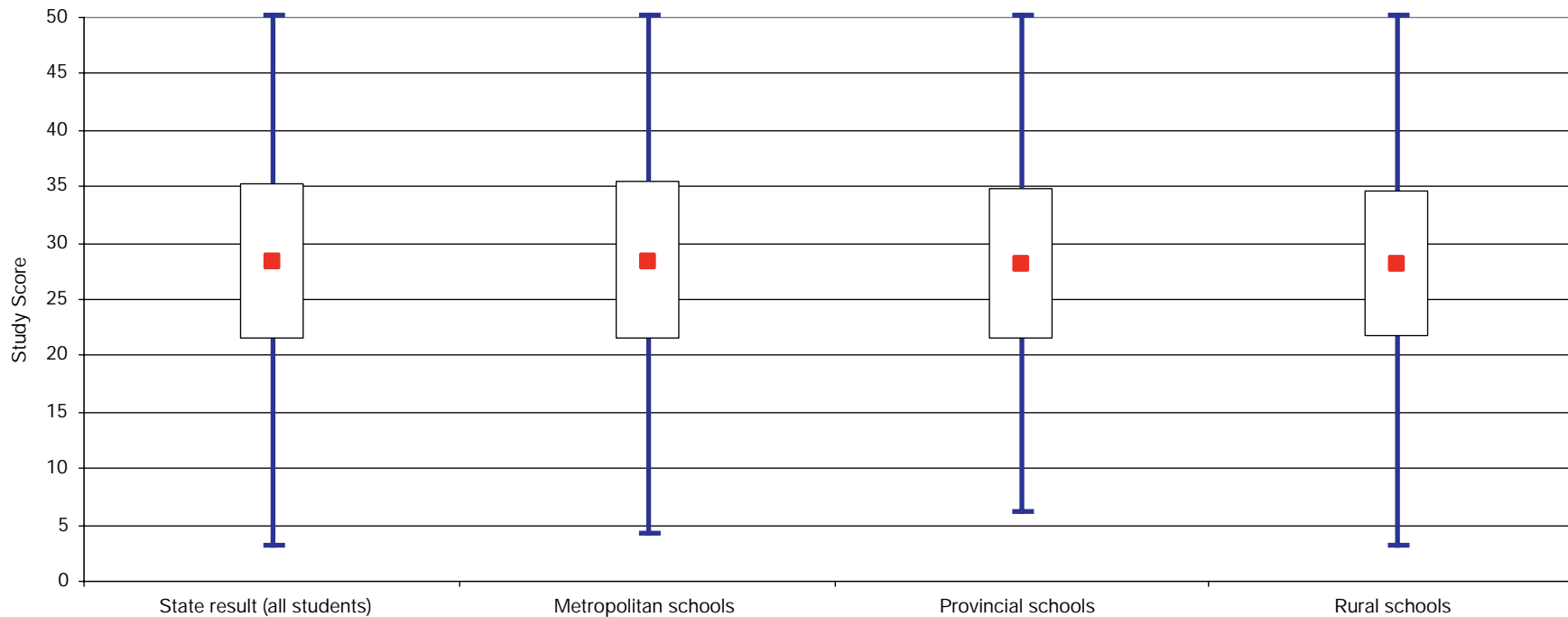
Subject: EN01 English

KEY



	No. students	Maximum	Mean + STD	Mean	Mean - STD	Minimum
State result (all students)	23616	50	35.2	28.4	21.6	3
Metropolitan schools	15010	50	35.4	28.5	21.5	4
Provincial schools	3630	50	34.9	28.2	21.5	6
Rural schools	4976	50	34.7	28.3	21.9	3

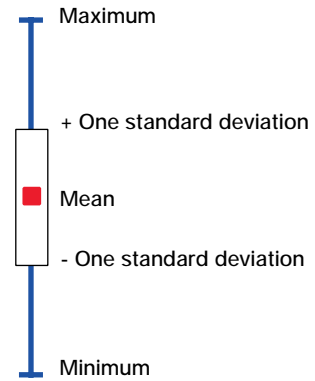
Study score distribution within VCE: school location by urbanisation



SELECTED STUDIES STUDY SCORES: DISTRIBUTION BY LOCATION

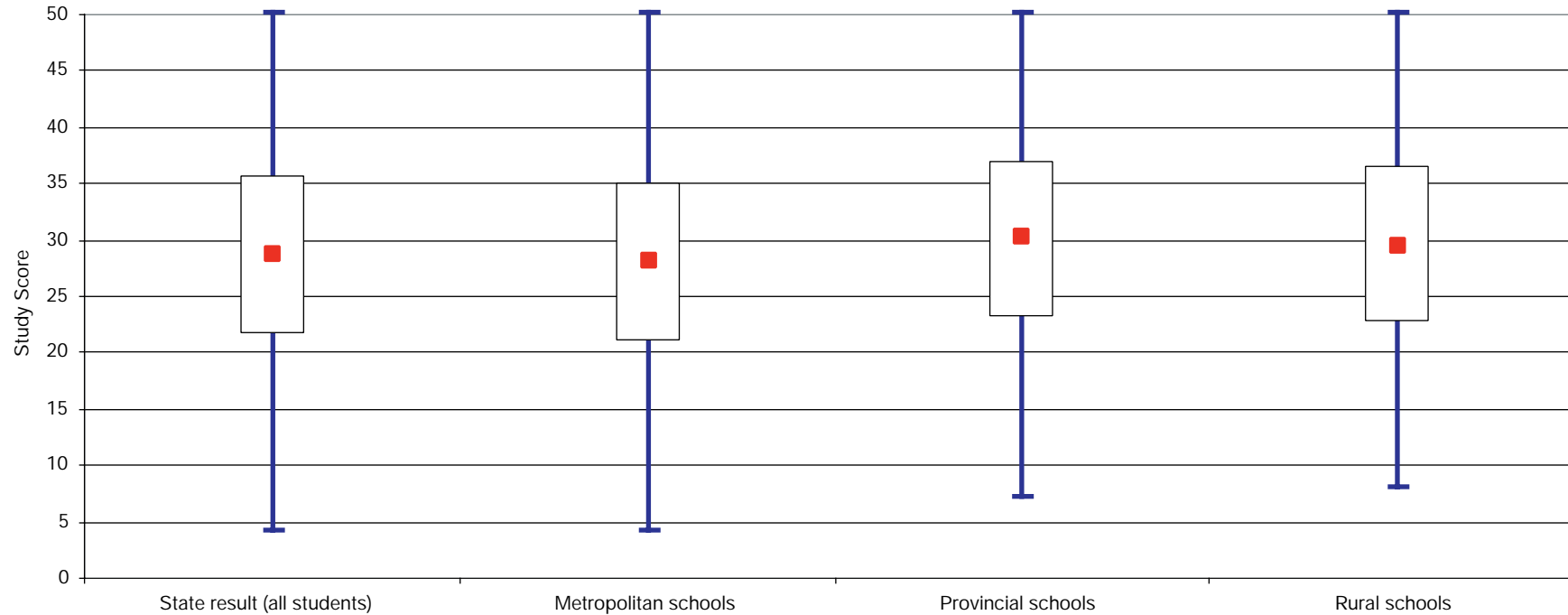
Subject: MA07 Further Mathematics

KEY



	No. students	Maximum	Mean + STD	Mean	Mean - STD	Minimum
State result (all students)	8296	50	35.7	28.8	21.8	4
Metropolitan schools	5129	50	35.1	28.1	21.2	4
Provincial schools	1240	50	36.9	30.1	23.3	7
Rural schools	1927	50	36.5	29.7	22.8	8

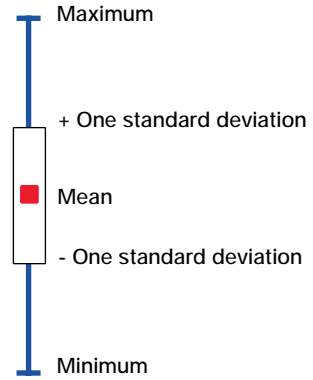
Study score distribution within VCE: school location by urbanisation



SELECTED STUDIES STUDY SCORES: DISTRIBUTION BY LOCATION

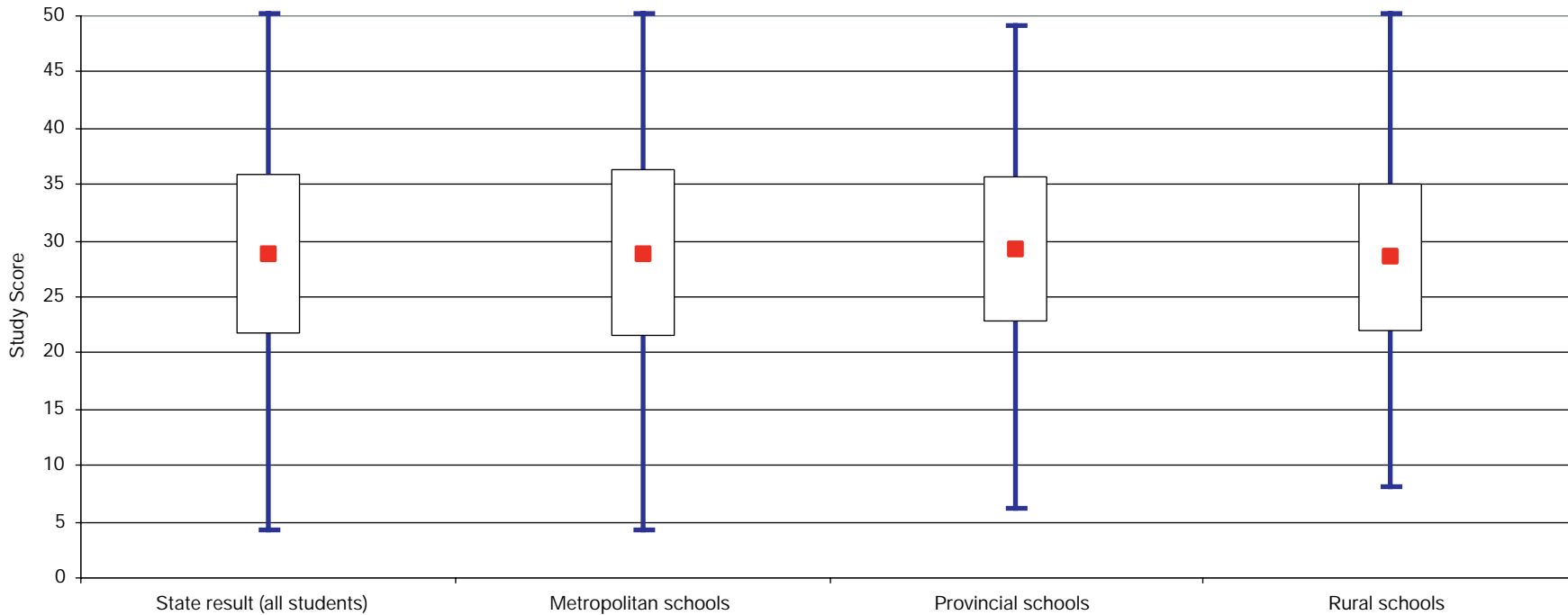
Subject: MA08 Mathematical Methods

KEY



	No. students	Maximum	Mean + STD	Mean	Mean - STD	Minimum
State result (all students)	8437	50	36.0	28.9	21.8	4
Metropolitan schools	5905	50	36.3	28.9	21.6	4
Provincial schools	1016	49	35.7	29.3	22.8	6
Rural schools	1516	50	35.0	28.5	22.1	8

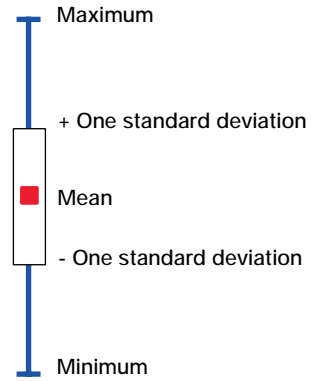
Study score distribution within VCE: school location by urbanisation



SELECTED STUDIES STUDY SCORES: DISTRIBUTION BY REGION

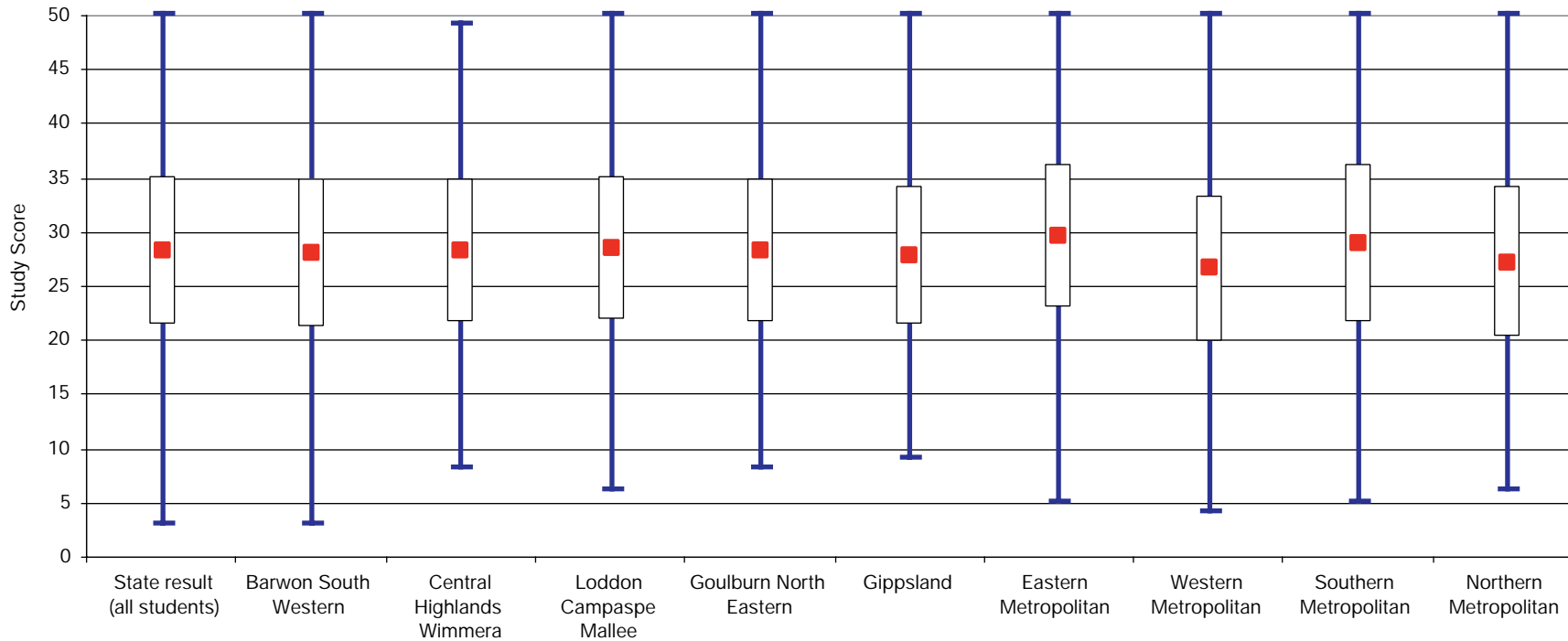
Subject: EN01 English

KEY



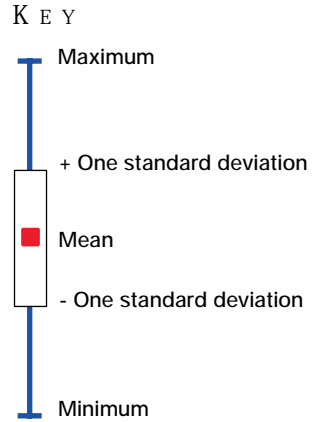
	No. students	Maximum	Mean + STD	Mean	Mean - STD	Minimum
State result (all students)	23616	50	35.2	28.4	21.6	3
Barwon South Western	1926	50	34.9	28.2	21.4	3
Central Highlands Wimmera	1215	49	34.9	28.3	21.8	8
Loddon Campaspe Mallee	1834	50	35.1	28.6	22.0	6
Goulburn North Eastern	1700	50	34.9	28.3	21.8	8
Gippsland	1306	50	34.1	27.8	21.6	9
Eastern Metropolitan	4950	50	36.2	29.7	23.1	5
Western Metropolitan	2898	50	33.4	26.7	20.0	4
Southern Metropolitan	4471	50	36.2	29.0	21.9	5
Northern Metropolitan	3316	50	34.2	27.3	20.4	6

Study score distribution within VCE: school location by region



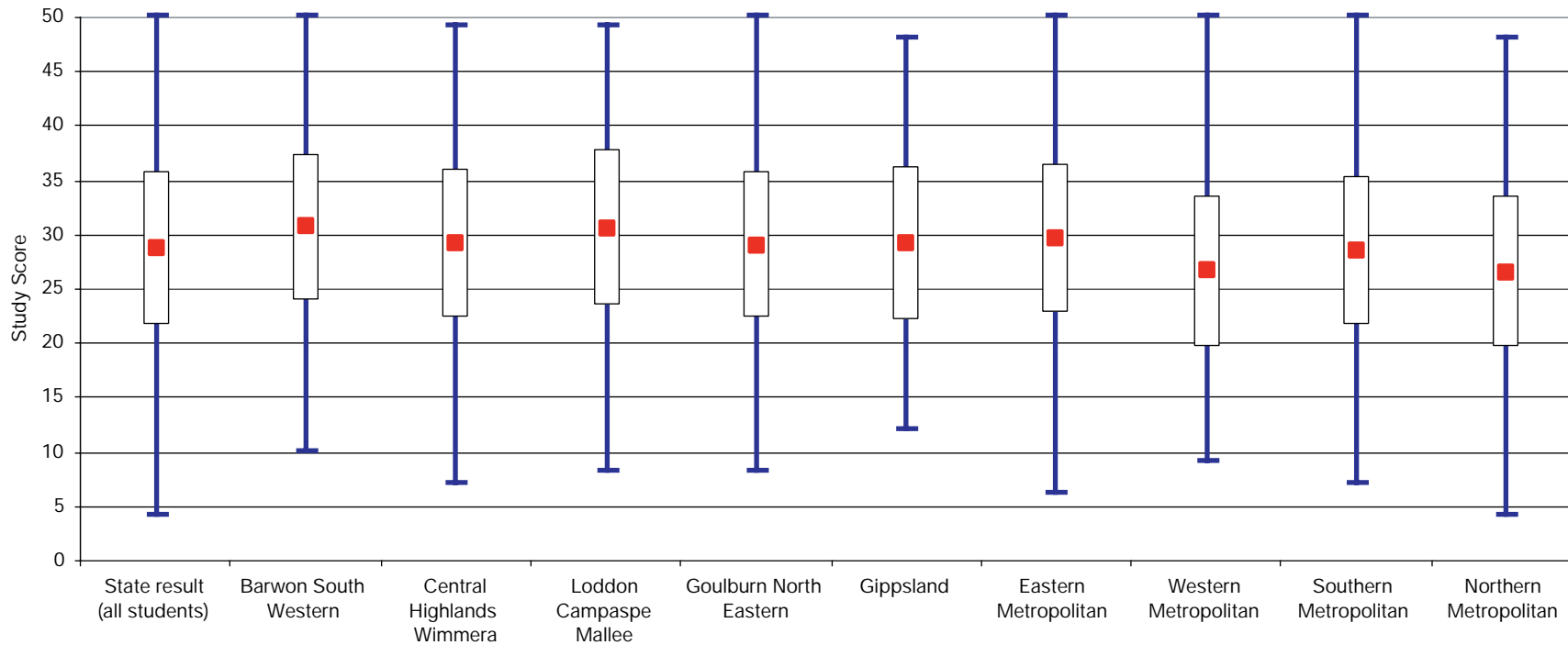
SELECTED STUDIES STUDY SCORES: DISTRIBUTION BY REGION

Subject: MA07 Further Mathematics



	No. students	Maximum	Mean + STD	Mean	Mean - STD	Minimum
State result (all students)	8296	50	35.7	28.8	21.8	4
Barwon South Western	676	50	37.4	30.8	24.1	10
Central Highlands Wimmera	428	49	36.0	29.3	22.6	7
Loddon Campaspe Mallee	662	49	37.7	30.7	23.7	8
Goulburn North Eastern	646	50	35.8	29.2	22.6	8
Gippsland	525	48	36.3	29.3	22.3	12
Eastern Metropolitan	1631	50	36.5	29.8	23.1	6
Western Metropolitan	1071	50	33.6	26.7	19.8	9
Southern Metropolitan	1470	50	35.4	28.6	21.8	7
Northern Metropolitan	1187	48	33.5	26.6	19.7	4

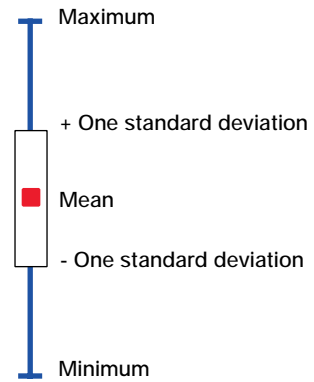
Study score distribution within VCE: school location by region



SELECTED STUDIES STUDY SCORES: DISTRIBUTION BY REGION

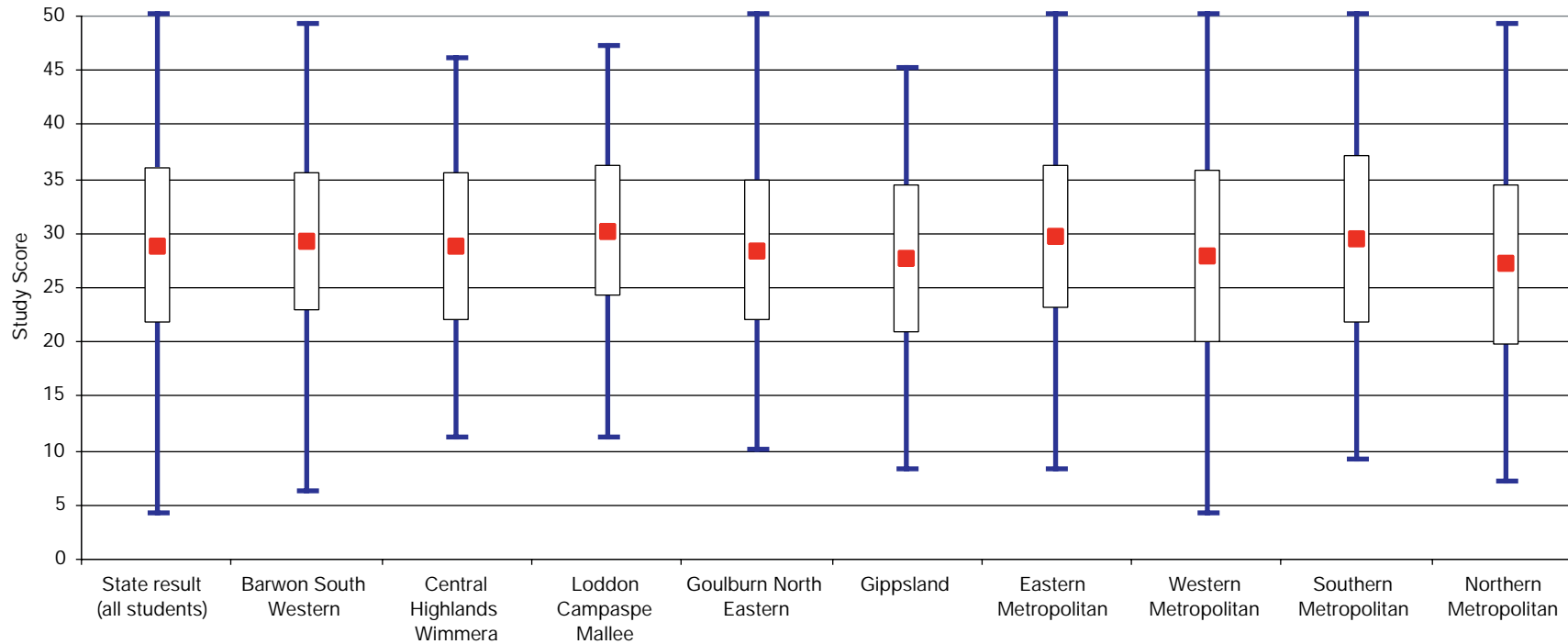
Subject: MA08 Mathematical Methods

KEY



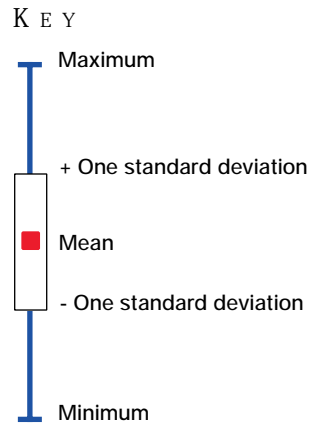
	No. students	Maximum	Mean + STD	Mean	Mean - STD	Minimum
State result (all students)	8437	50	36.0	28.9	21.8	4
Barwon South Western	565	49	35.6	29.2	22.9	6
Central Highlands Wimmera	354	46	35.5	28.8	22.1	11
Loddon Campaspe Mallee	519	47	36.2	30.3	24.4	11
Goulburn North Eastern	529	50	34.8	28.4	22.0	10
Gippsland	397	45	34.5	27.7	20.9	8
Eastern Metropolitan	2096	50	36.2	29.7	23.2	8
Western Metropolitan	995	50	35.8	27.9	20.0	4
Southern Metropolitan	1897	50	37.1	29.4	21.8	9
Northern Metropolitan	1085	49	34.5	27.2	19.9	7

Study score distribution within VCE: school location by region



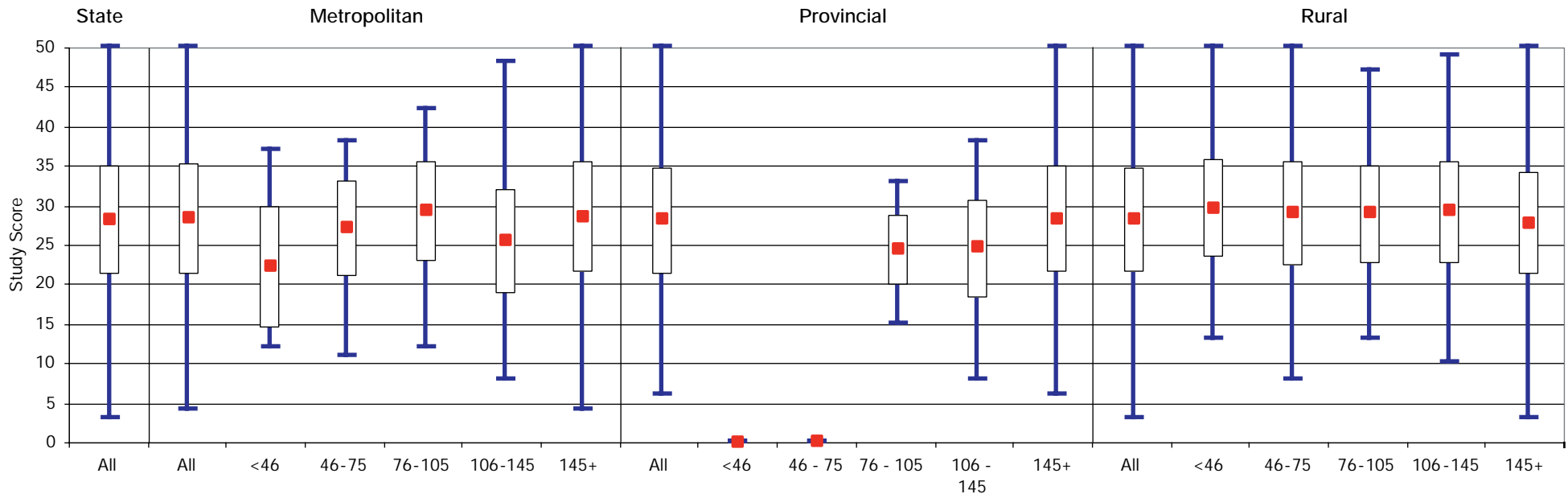
SELECTED STUDIES STUDY SCORES: DISTRIBUTION BY VCE COHORT SIZE AND SCHOOL LOCATION

Subject: EN01 English



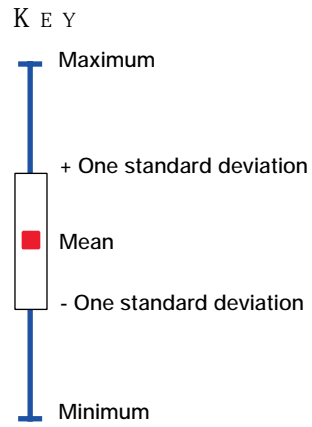
	VCE enrolment (Yrs 11-12)	No. students	Maximum	Mean + STD	Mean	Mean - STD	Minimum	
State	All	23616	50	35.2	28.4	21.6	3	
	Metropolitan	All	15010	50	35.4	28.5	21.5	4
		<46	20	37	29.8	22.3	14.7	12
		46 - 75	40	38	33.2	27.2	21.2	11
		76 - 105	107	42	35.5	29.3	23.0	12
		106 - 145	793	48	32.2	25.7	19.1	8
145+	14050	50	35.6	28.7	21.7	4		
Provincial	All	3630	50	34.9	28.2	21.5	6	
	<46	0	0	0	0	0	0	
	46 - 75	0	0	0	0	0	0	
	76 - 105	27	33	29	24	20	15	
	106 - 145	94	38	31	25	19	8	
	145+	3509	50	35	28	22	6	
Rural	All	4976	50	34.7	28.3	21.9	3	
	<46	297	50	36.0	29.8	23.5	13	
	46 - 75	476	50	35.5	29.0	22.4	8	
	76 - 105	414	47	35.0	29.0	22.9	13	
	106 - 145	590	49	35.6	29.2	22.9	10	
	145+	3199	50	34.2	27.8	21.4	3	

Study score distribution within VCE: enrolment group and location



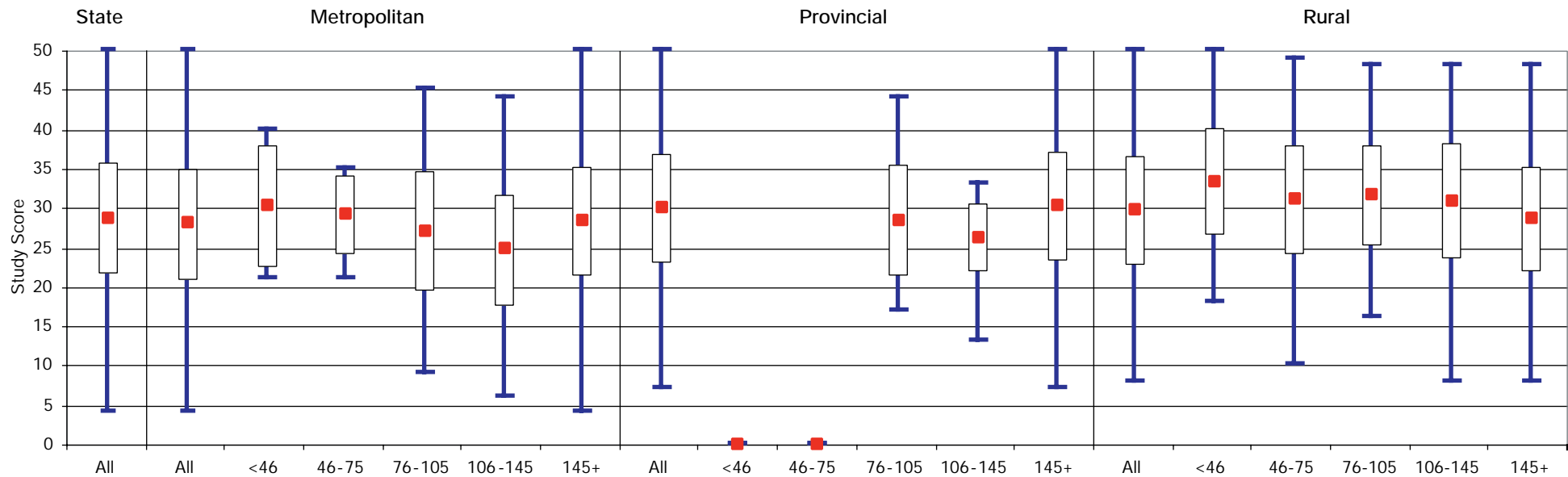
SELECTED STUDIES STUDY SCORES: DISTRIBUTION BY VCE COHORT SIZE AND SCHOOL LOCATION

Subject: MA07 Further Mathematics



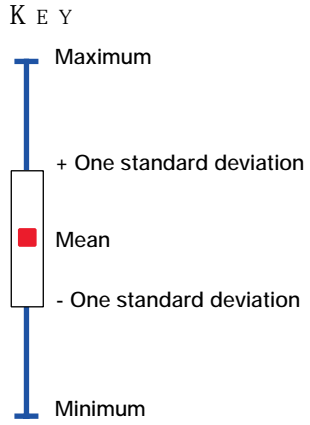
	VCE enrolment (Yrs 11-12)	No. students	Maximum	Mean + STD	Mean	Mean - STD	Minimum
State	All	8296	50	35.7	28.8	21.8	4
Metropolitan	All	5129	50	35.1	28.1	21.2	4
	<46	3	40	38.1	30.3	22.6	21
	46 - 75	5	35	34.0	29.2	24.4	21
	76 - 105	41	45	34.8	27.2	19.6	9
	106 - 145	336	44	31.8	24.8	17.8	6
	145+	4744	50	35.3	28.4	21.5	4
Provincial	All	1240	50	36.9	30.1	23.3	7
	<46	0	0	0	0	0	0
	46 - 75	0	0	0	0	0	0
	76 - 105	13	44	36	29	22	17
	106 - 145	31	33	31	26	22	13
	145+	1196	50	37	30	23	7
Rural	All	1927	50	36.5	29.7	22.8	8
	<46	116	50	40.1	33.4	26.7	18
	46 - 75	165	49	38.1	31.2	24.4	10
	76 - 105	155	48	38.0	31.7	25.4	16
	106 - 145	225	48	38.3	31.0	23.7	8
	145+	1266	48	35.2	28.6	22.1	8

Study score distribution within VCE: enrolment group and location



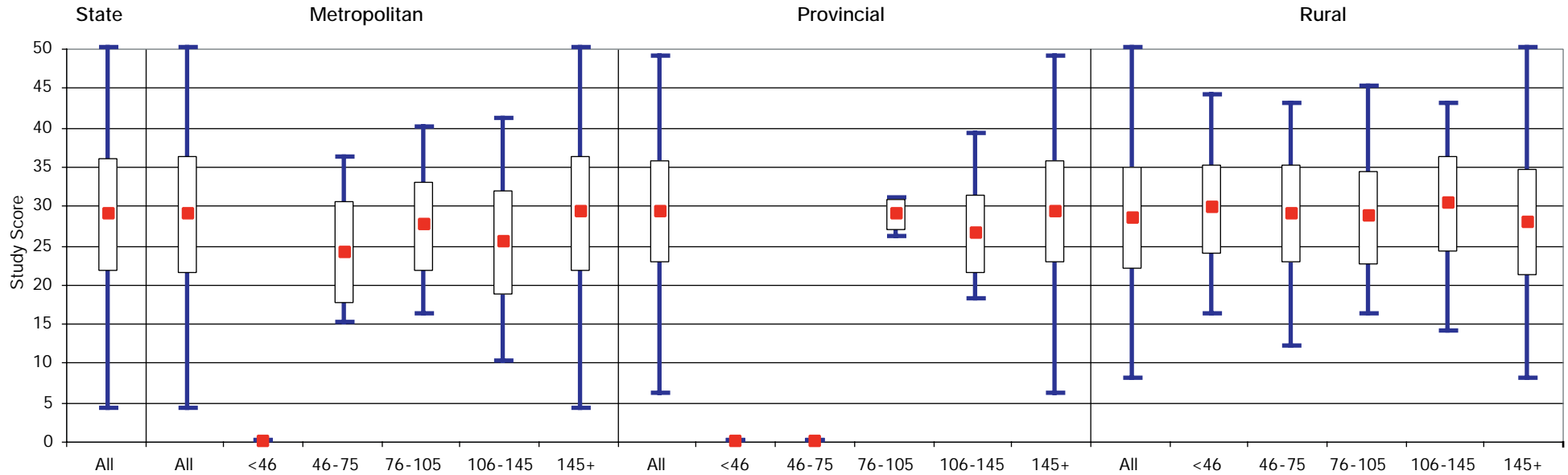
SELECTED STUDIES STUDY SCORES: DISTRIBUTION BY VCE COHORT SIZE AND SCHOOL LOCATION

Subject: MA08 Mathematical Methods



	VCE enrolment (Yrs 11-12)	No. students	Maximum	Mean + STD	Mean	Mean - STD	Minimum
State	All	8437	50	36.0	28.9	21.8	4
Metropolitan	All	5905	50	36.3	28.9	21.6	4
	<46	0	0	0.0	0.0	0.0	0
	46 - 75	8	36	30.6	24.1	17.6	15
	76 - 105	26	40	33.0	27.5	21.9	16
	106 - 145	255	41	32.0	25.3	18.7	10
	145+	5616	50	36.4	29.1	21.8	4
Provincial	All	1016	49	35.7	29.3	22.8	6
	<46	0	0	0	0	0	0
	46 - 75	0	0	0	0	0	0
	76 - 105	4	31	31	29	27	26
	106 - 145	32	39	32	27	22	18
	145+	980	49	36	29	23	6
Rural	All	1516	50	35.0	28.5	22.1	8
	<46	103	44	35.3	29.7	24.1	16
	46 - 75	149	43	35.2	29.1	23.0	12
	76 - 105	134	45	34.5	28.6	22.7	16
	106 - 145	187	43	36.2	30.3	24.5	14
	145+	943	50	34.7	28.0	21.3	8

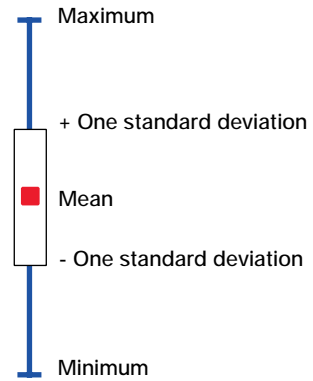
Study score distribution within VCE: enrolment group and location



SELECTED STUDIES STUDY SCORES: DISTRIBUTION BY GIRLS SCHOOL TYPE

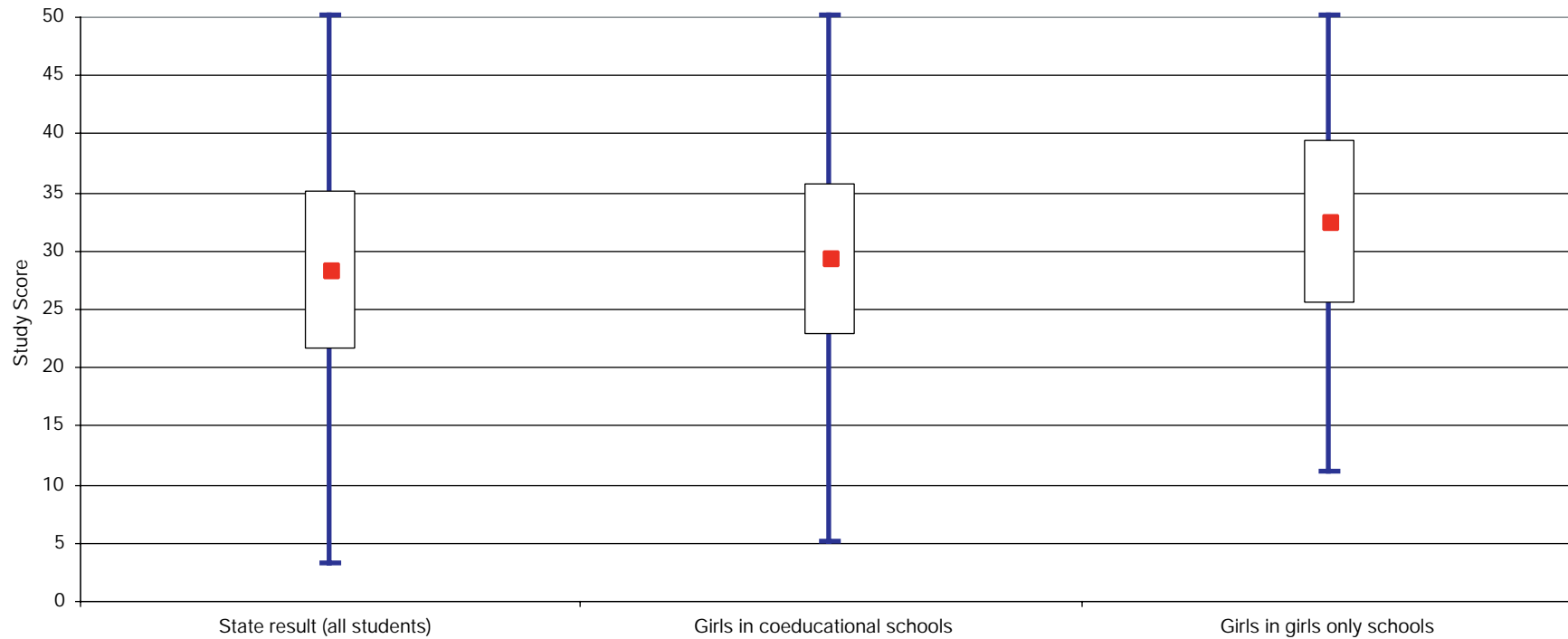
Subject: EN01 English

KEY



	No. students	Maximum	Mean + STD	Mean	Mean - STD	Minimum
State result (all students)	23616	50	35.2	28.4	21.6	3
Girls in coeducational schools	12209	50	35.7	29.3	22.9	5
Girls in girls only schools	994	50	39.4	32.5	25.6	11

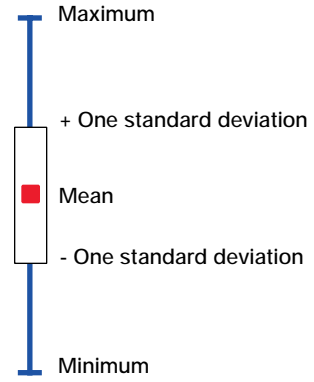
Study score distribution within VCE: girls in coeducational and all girls schools



SELECTED STUDIES STUDY SCORES: DISTRIBUTION BY GIRLS SCHOOL TYPE

Subject: MA07 Further Mathematics

KEY



	No. students	Maximum	Mean + STD	Mean	Mean - STD	Minimum
State result (all students)	8296	50	35.7	28.8	21.8	4
Girls in coeducational schools	4279	50	36.2	29.5	22.7	5
Girls in girls only schools	206	50	37.7	30.9	24.1	15

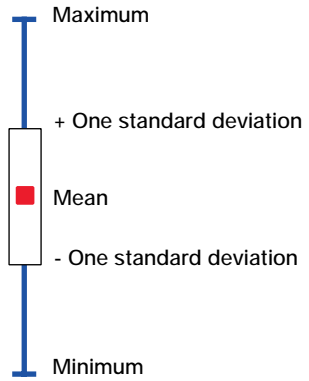
Study score distribution within VCE: girls in coeducational and all girls schools



SELECTED STUDIES STUDY SCORES: DISTRIBUTION BY GIRLS SCHOOL TYPE

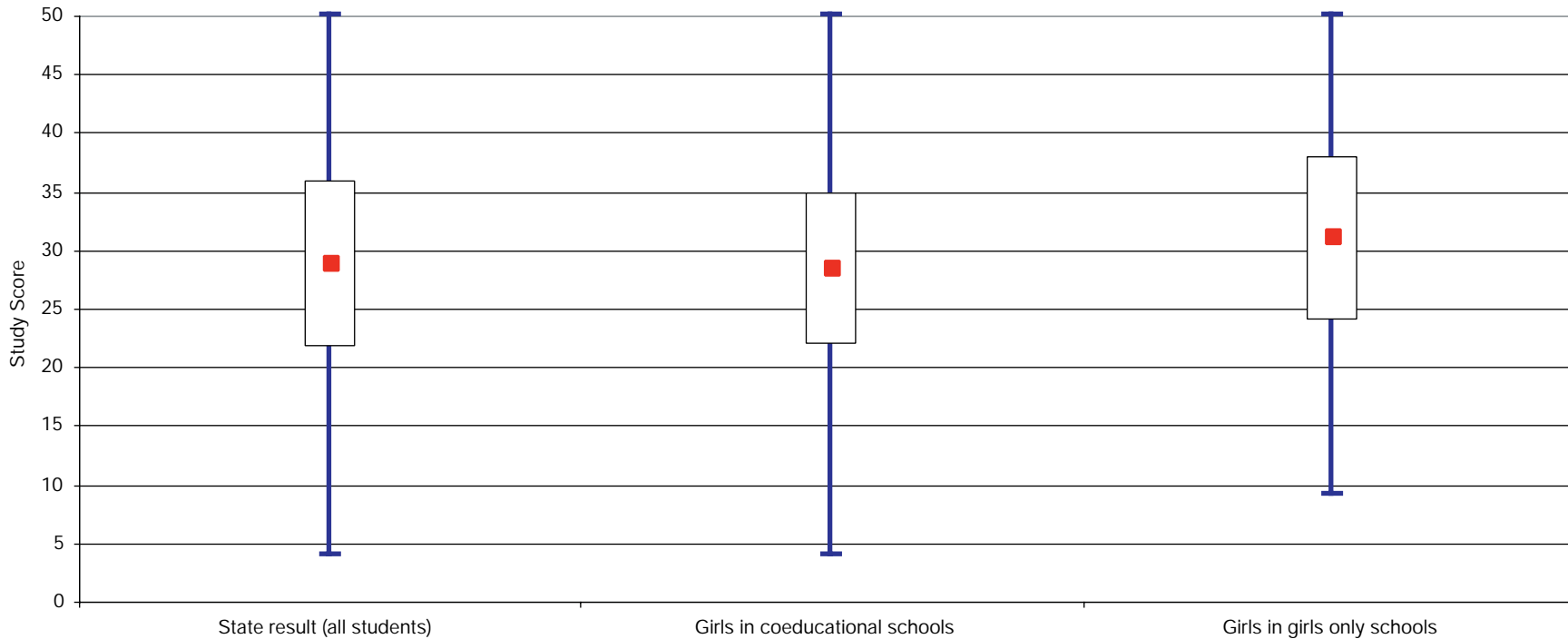
Subject: MA08 Mathematical Methods

KEY



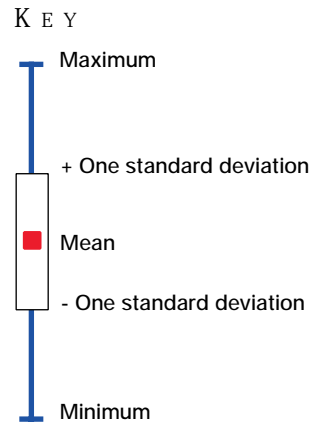
	No. students	Maximum	Mean + STD	Mean	Mean - STD	Minimum
State result (all students)	8437	50	36.0	28.9	21.8	4
Girls in coeducational schools	3487	50	35.0	28.5	22.0	4
Girls in girls only schools	495	50	38.1	31.2	24.2	9

Study score distribution within VCE: girls in coeducational and all girls schools



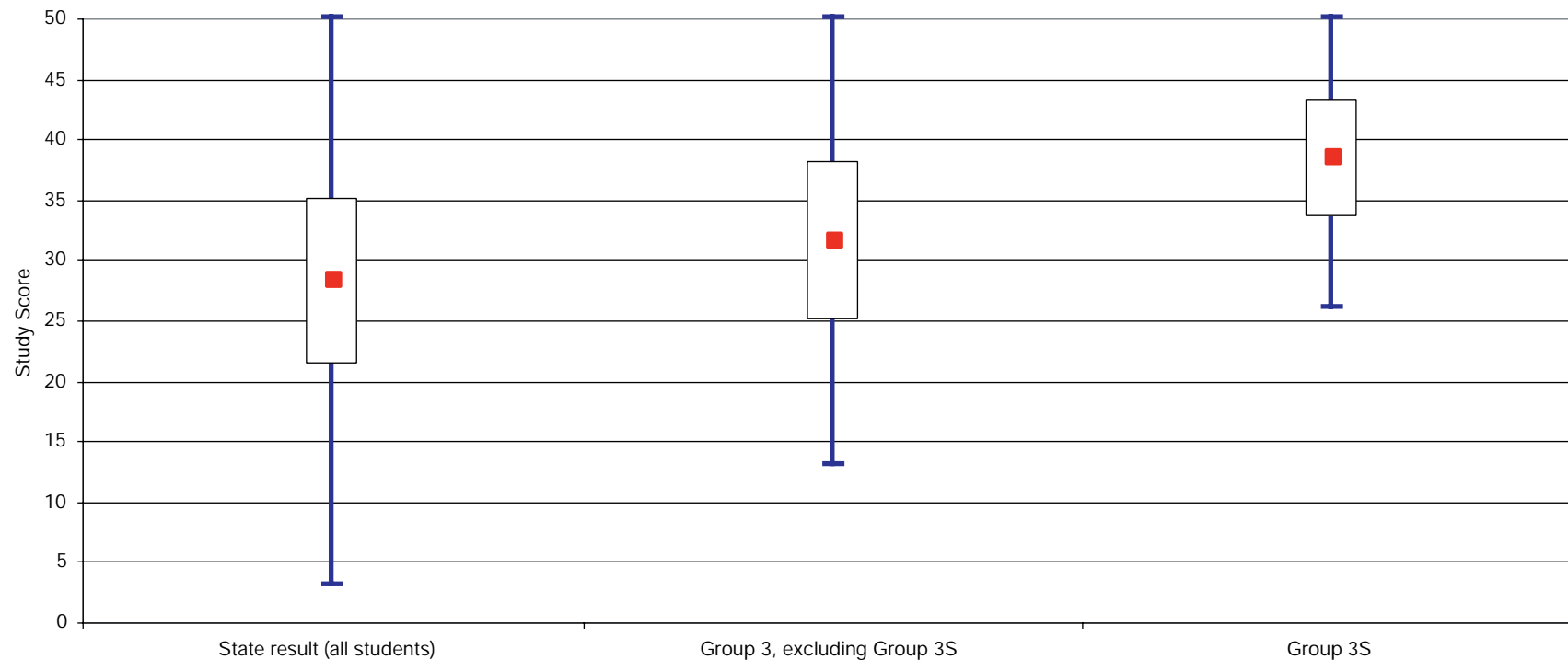
SELECTED STUDIES STUDY SCORES: DISTRIBUTION BY 'LIKE' GROUP 3 SCHOOLS

Subject: EN01 English



	No. students	Maximum	Mean + STD	Mean	Mean - STD	Minimum
State result (all students)	23616	50	35.2	28.4	21.6	3
Group 3, excluding Group 3S	885	50	38.2	31.7	25.3	13
Group 3S	527	50	43.3	38.6	33.8	26

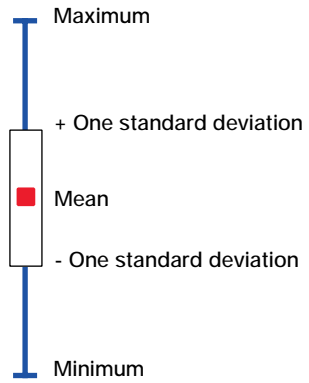
Study score distribution within VCE: Group 3 schools (excluding Group 3S), and Group 3S schools



SELECTED STUDIES STUDY SCORES: DISTRIBUTION BY 'LIKE' GROUP 3 SCHOOLS

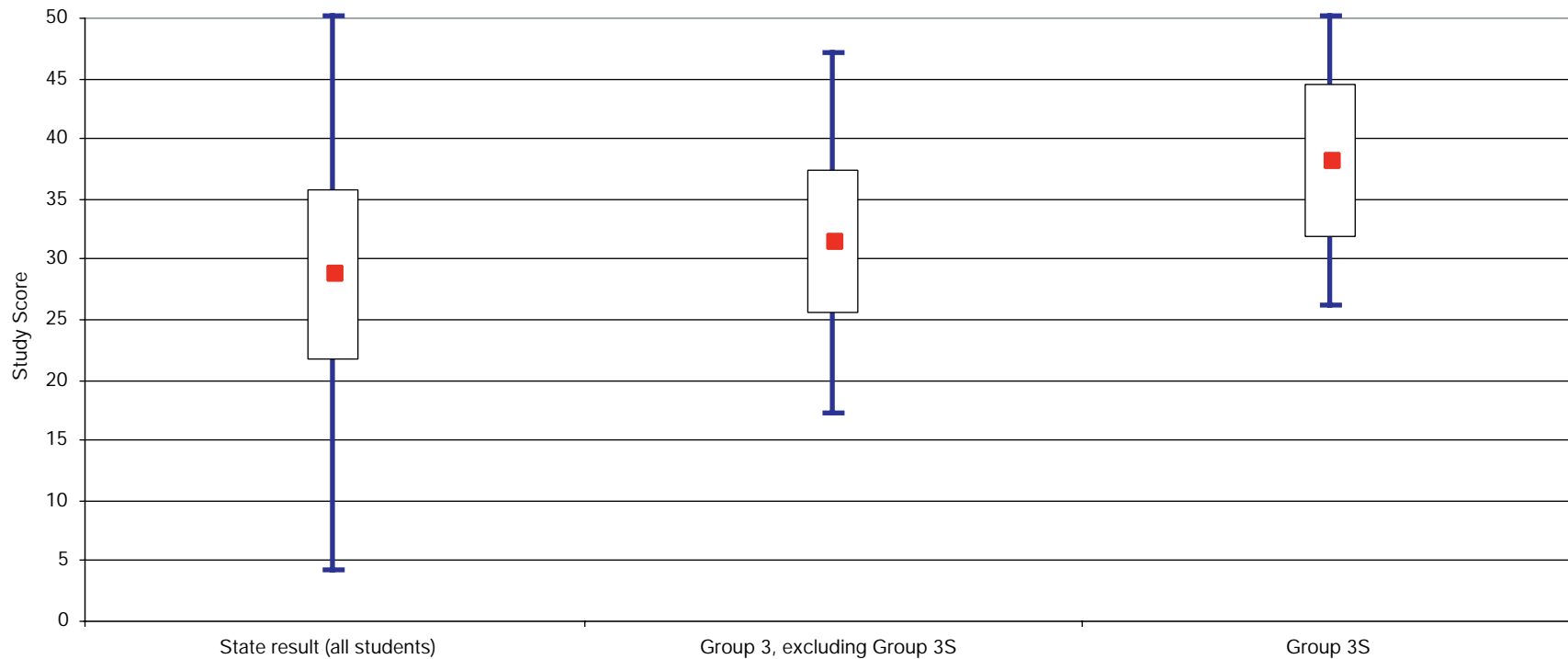
Subject: MA07 Further Mathematics

KEY



	No. students	Maximum	Mean + STD	Mean	Mean - STD	Minimum
State result (all students)	8296	50	35.7	28.8	21.8	4
Group 3, excluding Group 3S	264	47	37.5	31.5	25.6	17
Group 3S	23	50	44.4	38.1	31.8	26

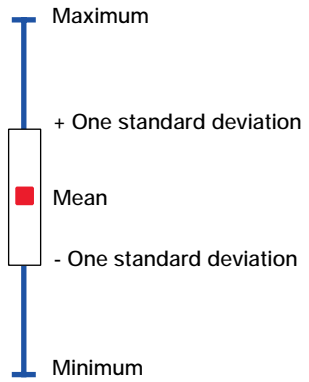
Study score distribution within VCE: Group 3 schools (excluding Group 3S), and Group 3S schools



SELECTED STUDIES STUDY SCORES: DISTRIBUTION BY 'LIKE' GROUP 3 SCHOOLS

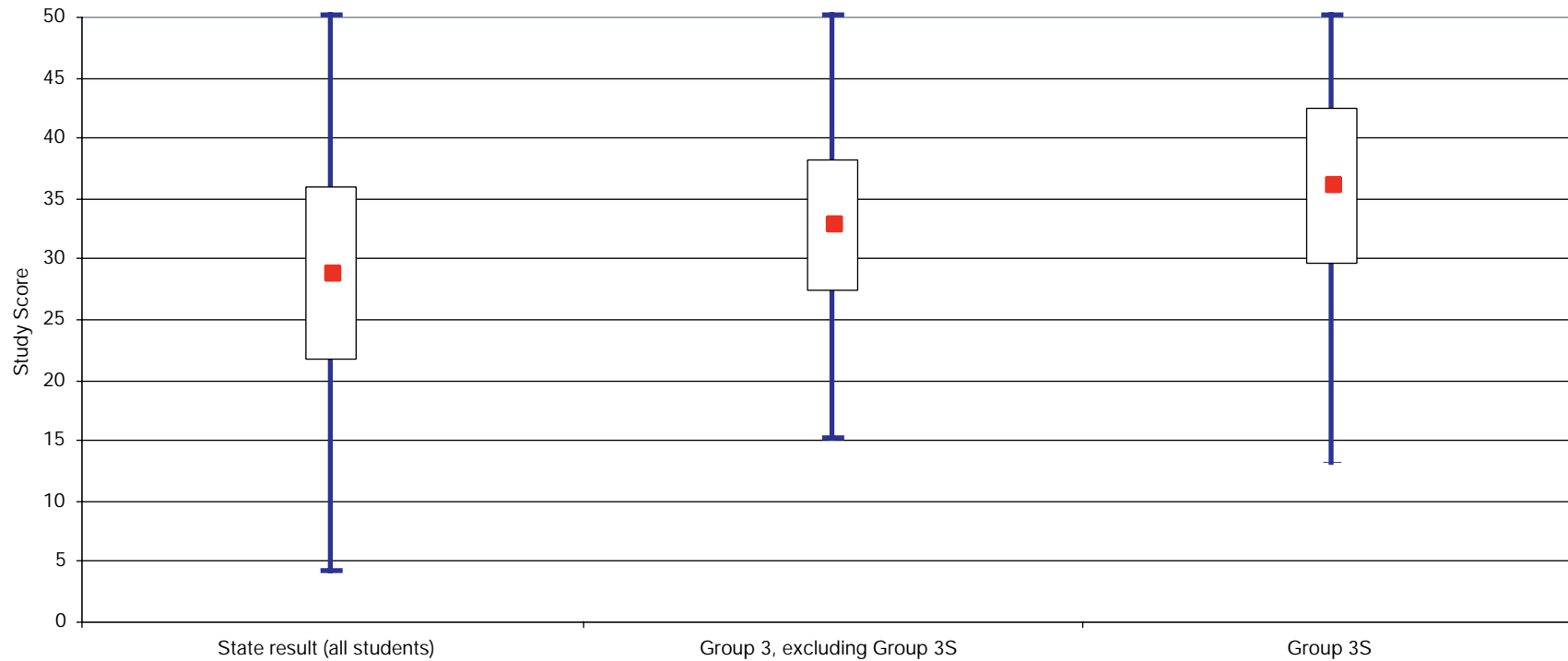
Subject: MA08 Mathematical Methods

KEY



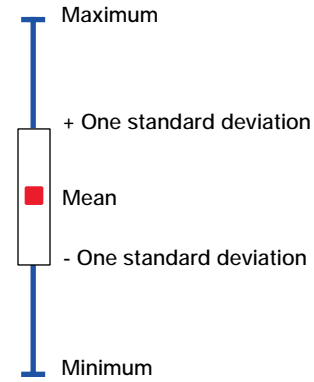
	No. students	Maximum	Mean + STD	Mean	Mean - STD	Minimum
State result (all students)	8437	50	36.0	28.9	21.8	4
Group 3, excluding Group 3S	541	50	38.2	32.8	27.5	15
Group 3S	457	50	42.5	36.1	29.7	13

Study score distribution within VCE: Group 3 schools (excluding Group 3S), and Group 3S schools

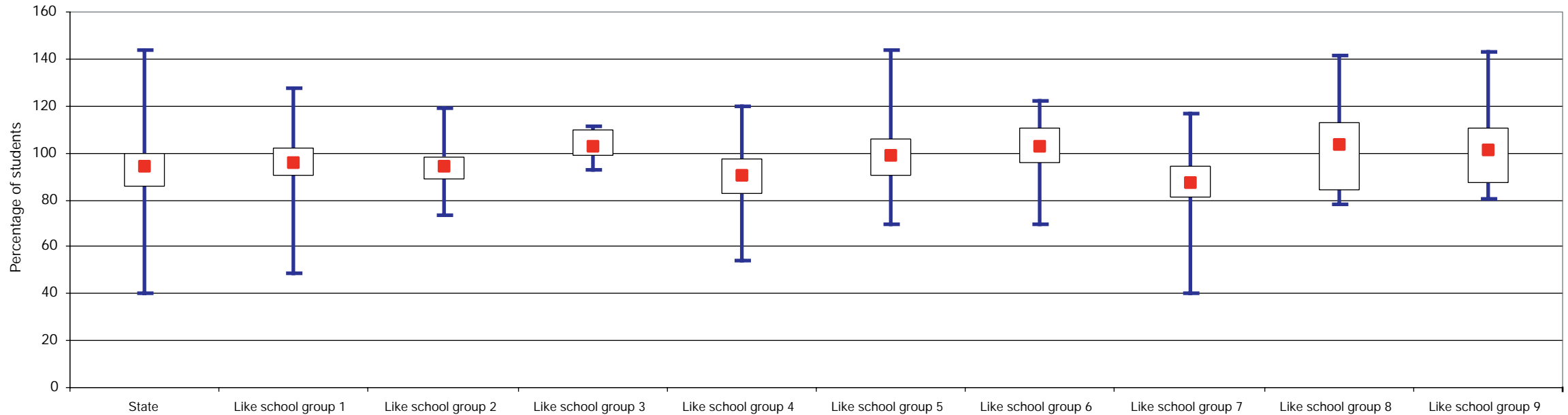


YEAR 7 – 10 APPARENT RETENTION BY ‘LIKE’ SCHOOL GROUP

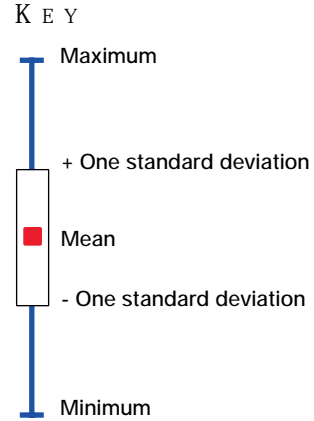
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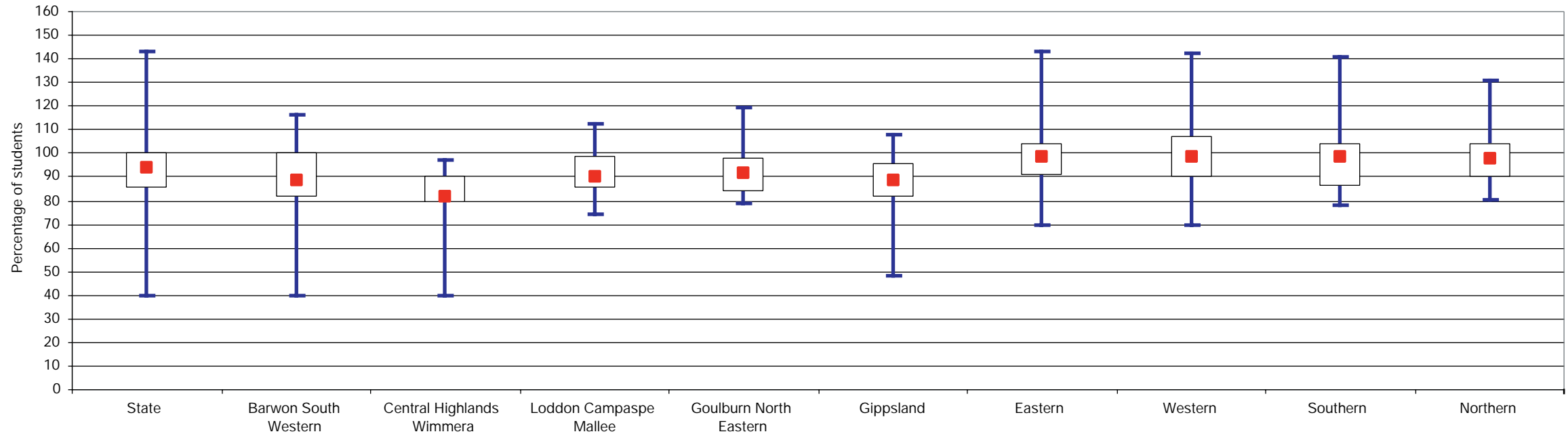
	State	Like school group 1	Like school group 2	Like school group 3	Like school group 4	Like school group 5	Like school group 6	Like school group 7	Like school group 8	Like school group 9
Maximum	143.46	127.49	118.97	111.69	119.44	143.46	122.47	116.42	141.18	142.74
+ One standard deviation	100.00	102.22	97.96	109.63	97.17	105.61	110.26	94.29	112.70	110.47
Mean	94.24	95.57	94.41	103.19	90.46	98.70	102.66	87.23	103.21	101.39
25th Percentile	85.71	90.51	88.65	98.76	82.63	90.32	96.15	81.35	84.29	87.70
Minimum	40.00	48.57	73.26	92.81	54.17	69.44	69.86	40.00	78.45	80.43



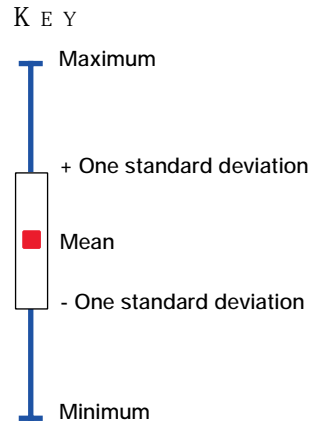
YEAR 7 - 10 APPARENT RETENTION BY REGION



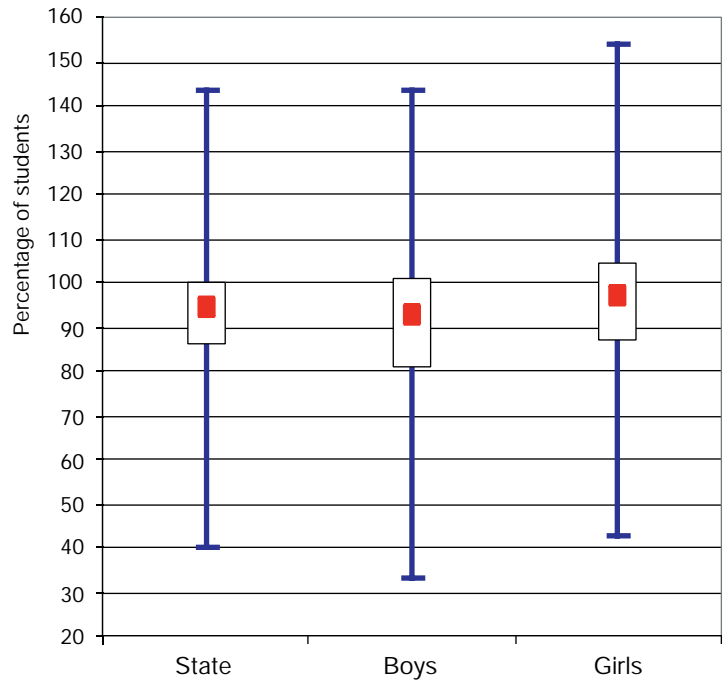
	State	Barwon South Western	Central Highlands Wimmera	Loddon Campaspe Mallee	Goulburn North Eastern	Gippsland	Eastern	Western	Southern	Northern
Maximum	143.46	116.67	97.20	112.70	119.44	108.15	143.46	142.74	141.18	131.22
75th Percentile	100.00	100.00	90.03	98.80	98.07	95.41	103.94	106.96	104.01	104.19
Mean	94.24	88.97	82.17	90.34	92.07	88.63	98.42	98.91	98.45	98.22
25th Percentile	85.71	82.26	79.43	85.82	84.44	81.91	90.89	90.32	86.62	90.44
Minimum	40.00	40.00	40.00	74.32	79.14	48.57	69.44	69.86	78.45	80.43



YEAR 7 - 10 APPARENT RETENTION BY GENDER

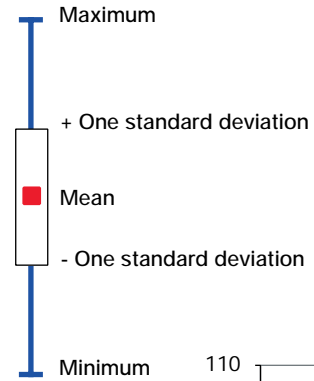


	State	Boys	Girls
Maximum	143.46	143.25	153.85
75th Percentile	100.00	101.10	104.43
Mean	94.24	91.85	96.75
25th Percentile	85.71	80.87	86.67
Minimum	40.00	33.33	42.86

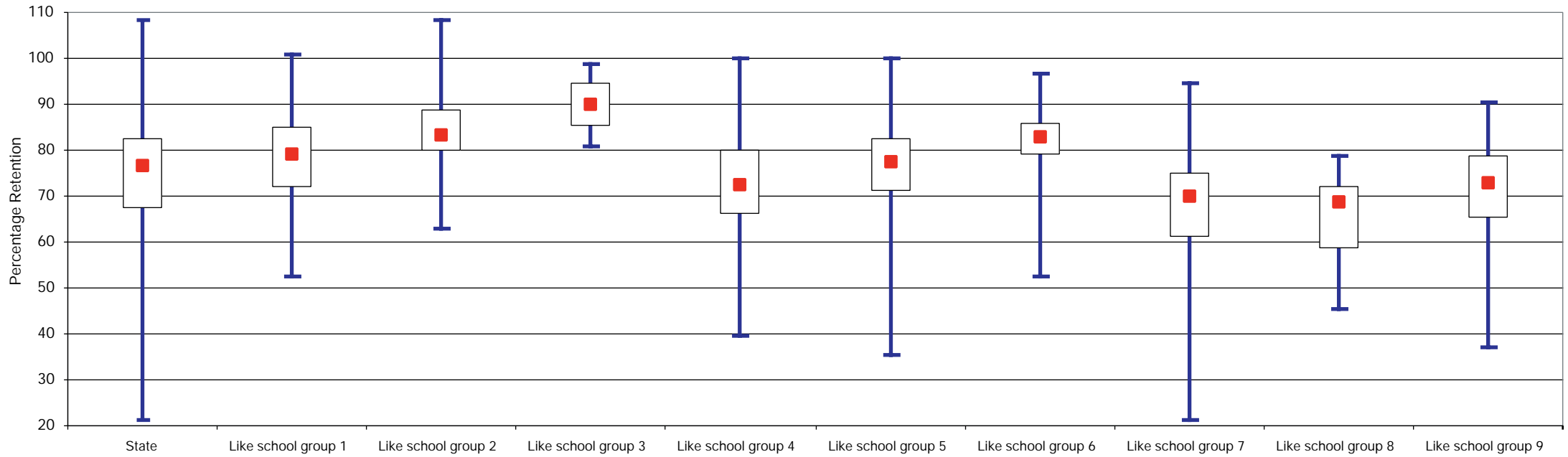


YEAR 11 - 12 APPARENT RETENTION BY 'LIKE' SCHOOL GROUP

KEY

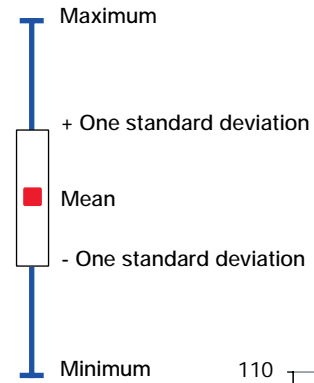


	State	Like school group 1	Like school group 2	Like school group 3	Like school group 4	Like school group 5	Like school group 6	Like school group 7	Like school group 8	Like school group 9
Maximum	108.29	100.97	108.29	98.60	100.00	100.00	96.59	94.44	78.57	90.56
75th Percentile	82.58	85.19	88.78	94.61	80.13	82.70	85.92	74.92	72.03	78.92
Mean	76.78	79.14	83.15	90.05	72.31	77.67	82.98	69.94	68.64	72.99
25th Percentile	67.58	72.03	79.96	85.43	66.42	71.07	78.97	61.23	58.73	65.26
Minimum	21.43	52.38	62.86	80.75	39.63	35.52	52.62	21.43	45.45	37.00

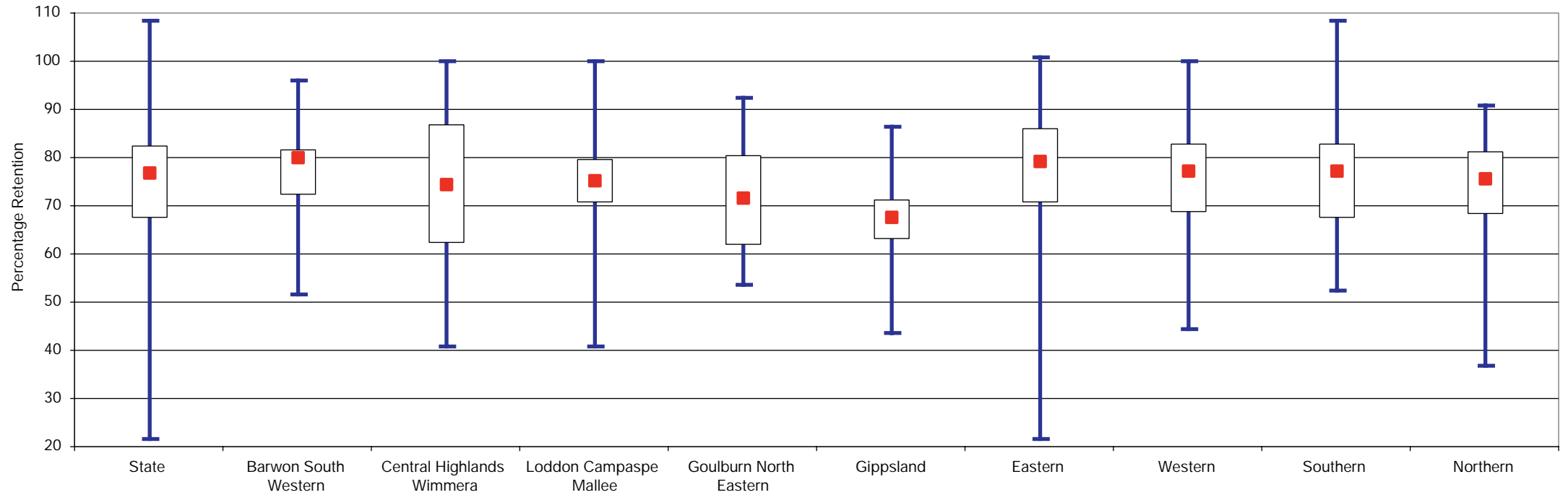


YEAR 11 - 12 APPARENT RETENTION BY REGION

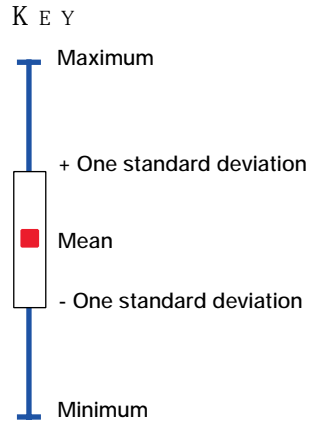
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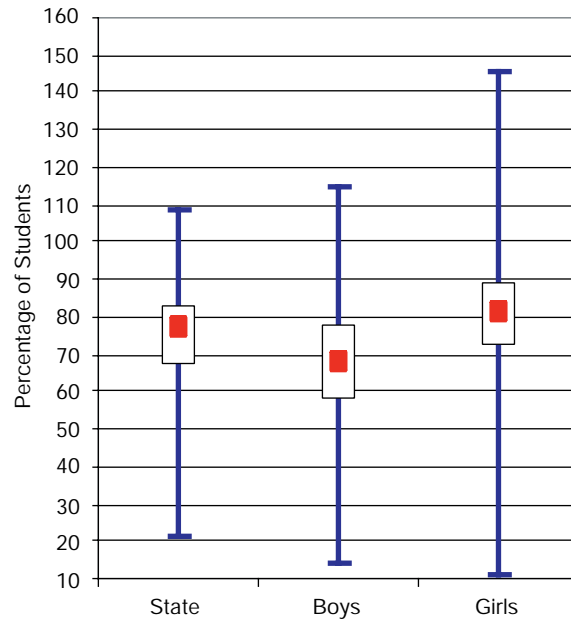
	State	Barwon South Western	Central Highlands Wimmera	Loddon Campaspe Mallee	Goulburn North Eastern	Gippsland	Eastern	Western	Southern	Northern
Maximum	108.29	96.15	100.00	100.00	92.58	86.28	100.97	100.00	108.29	90.61
75th Percentile	82.58	81.50	86.94	79.58	80.26	71.30	85.97	82.91	82.91	81.06
Mean	76.78	79.87	74.33	75.24	71.71	67.52	79.07	77.09	77.07	75.78
25th Percentile	67.58	72.31	62.47	70.86	61.85	63.03	70.99	68.94	67.55	68.52
Minimum	21.43	51.43	40.84	40.84	53.57	43.50	21.43	44.44	52.59	37.00



YEAR 11 - 12 APPARENT RETENTION BY GENDER

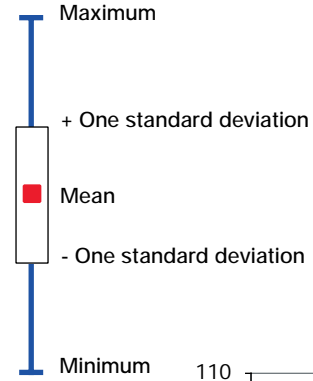


	State	Boys	Girls
Maximum	108.29	114.29	145.45
75th Percentile	82.58	77.35	88.82
Mean	76.78	67.68	80.91
25th Percentile	67.58	58.43	72.91
Minimum	21.43	14.29	11.11

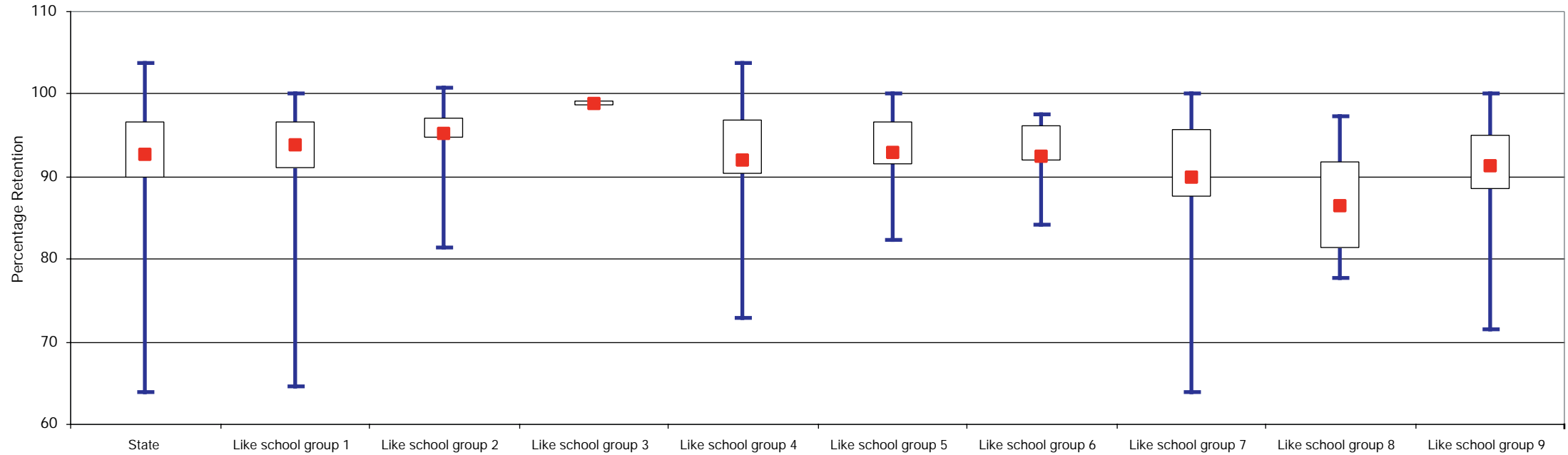


YEAR 12 COMPLETION BY 'LIKE' SCHOOL GROUP

KEY

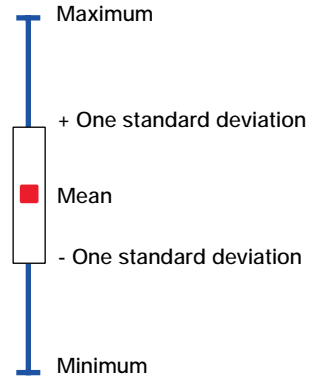


	State	Like school group 1	Like school group 2	Like school group 3	Like school group 4	Like school group 5	Like school group 6	Like school group 7	Like school group 8	Like school group 9
Maximum	103.82	100.00	100.68	99.71	103.82	100.00	97.55	100.00	97.36	100.00
75th Percentile	96.59	96.64	97.07	99.15	96.79	96.53	96.24	95.65	91.75	95.10
Mean	92.63	93.98	95.17	99.01	91.97	92.87	92.55	90.05	86.61	91.44
25th Percentile	89.90	91.15	94.85	98.76	90.38	91.49	92.09	87.73	81.41	88.68
Minimum	63.83	64.71	81.48	98.26	72.79	82.28	84.25	63.83	77.78	71.43

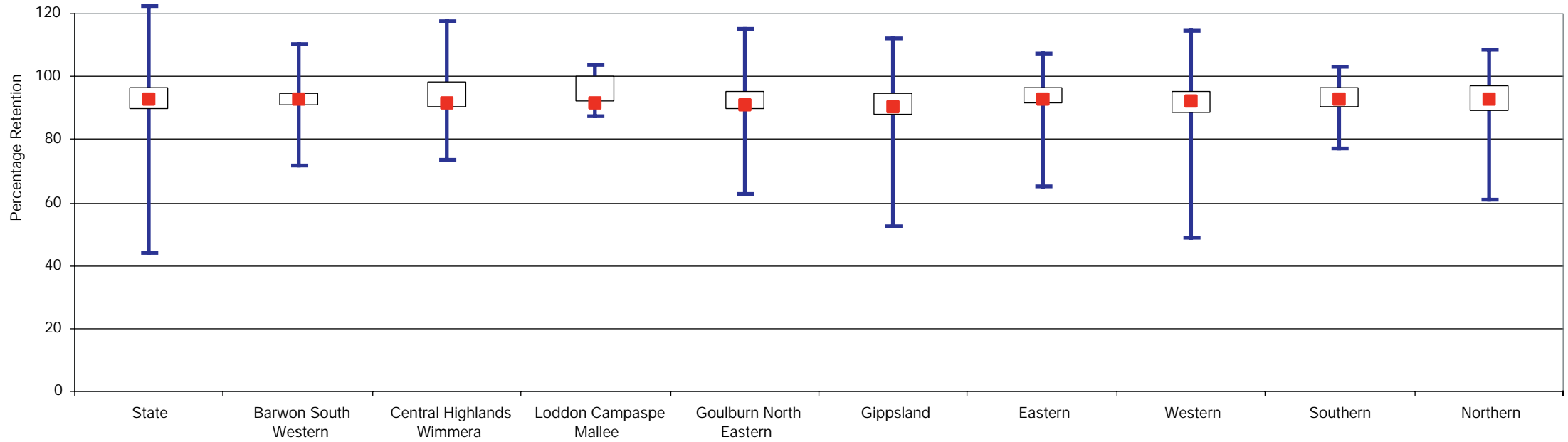


YEAR 12 COMPLETION BY REGION

KEY

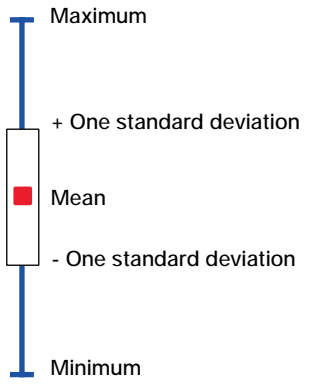


	State	Barwon South Western	Central Highlands Wimmera	Loddon Campaspe Mallee	Goulburn North Eastern	Gippsland	Eastern	Western	Southern	Northern
Maximum	103.82	100.00	100.00	100.00	103.82	100.00	100.68	100.00	100.00	100.00
75th Percentile	96.59	94.74	98.05	100.00	95.09	94.69	96.61	95.16	96.47	97.14
Mean	92.63	93.04	91.77	91.69	91.29	90.16	92.90	92.09	93.14	93.14
25th Percentile	89.90	91.35	90.63	92.31	89.66	87.84	91.61	88.66	90.51	89.35
Minimum	63.83	77.78	80.84	77.78	78.95	64.71	63.83	71.43	77.78	72.79

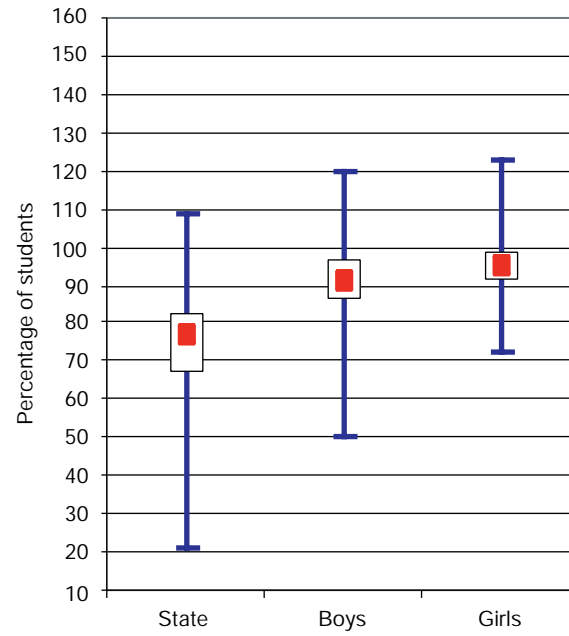


YEAR 12 COMPLETION BY GENDER

KEY



	State	Boys	Girls
Maximum	108.29	120.00	123.08
75th Percentile	82.58	96.74	98.55
Mean	76.78	90.84	94.64
25th Percentile	67.58	86.97	91.67
Minimum	21.43	50.00	72.22



APPENDIX NO. 1

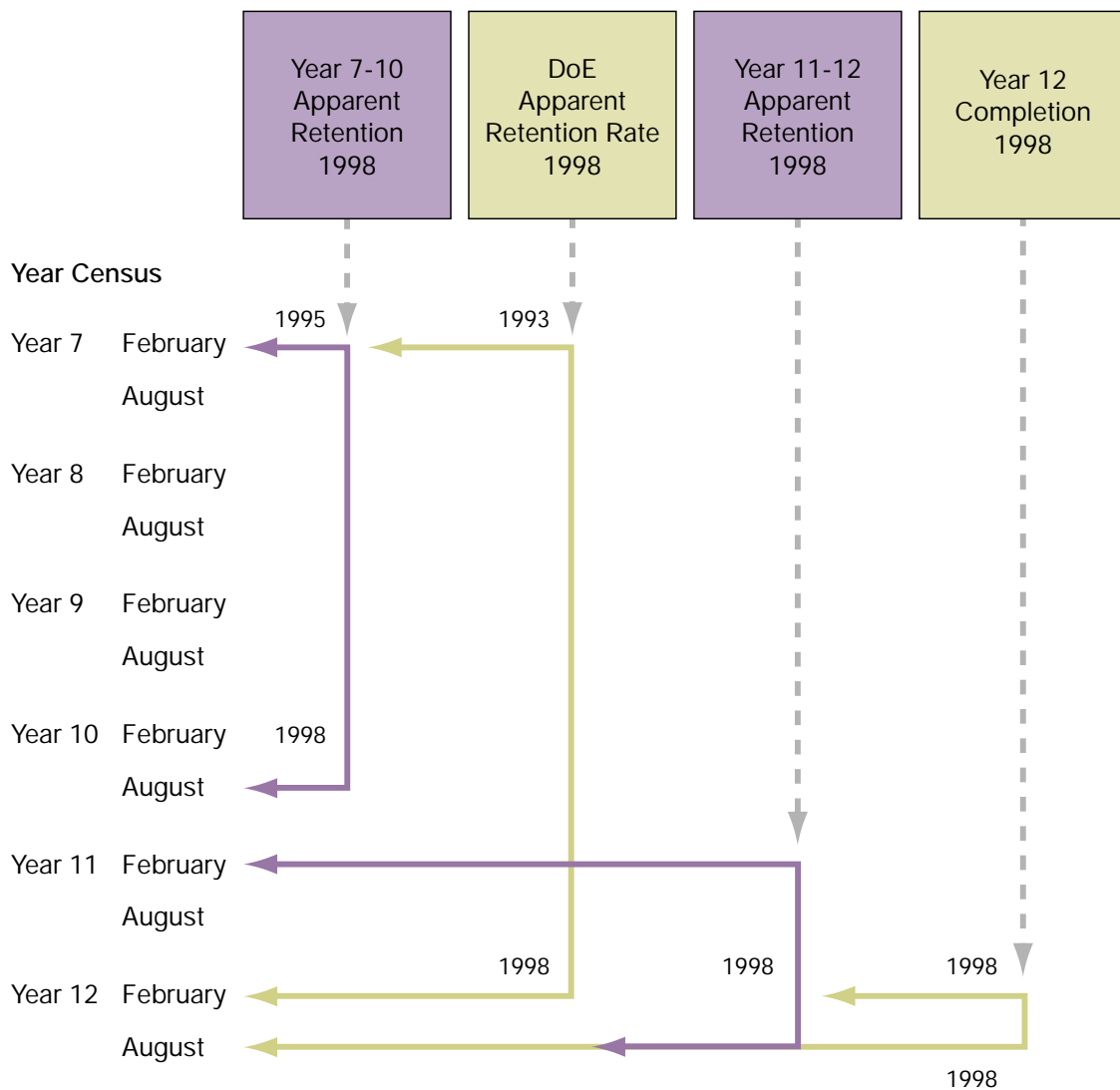
RETENTION AND COMPLETION: DEFINITION OF TERMS

Twice a year each school completes a census count of students attending the school. The census occurs in February and again in August. Data from the census are used to determine the apparent retention rates presented in the document.

It should be noted that data presented in this booklet refer to apparent retention

rates only. Apparent retention measures the difference between a count of students at time one and again at time two. During that interval 100 students may have left the government system and a different 100 came into the system. This situation would still give a 100% apparent retention rate. The Department of Education does not collect data on actual retention.

The following diagram clarifies the terms used by the Office of Review and the official apparent retention figures published by the Department of Education.



APPENDIX NO. 2

'LIKE' SCHOOL GROUPS

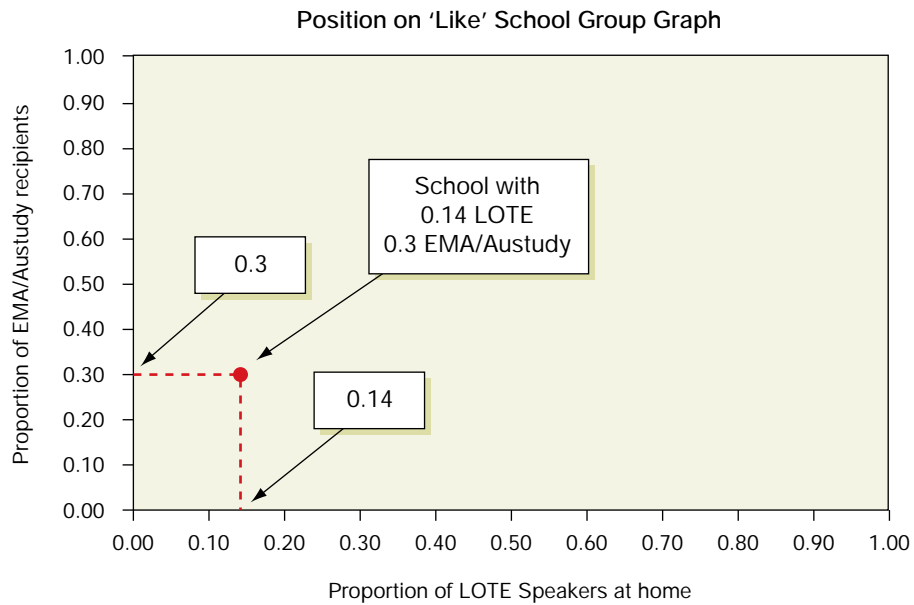
'LIKE' SCHOOL GROUPS		
<p>Group Seven</p> <p><i>Nil-Low LOTE, High EMA/Austudy</i></p> <p>0 to <= 0.04 LOTE > 0.43 EMA/Austudy</p>	<p>Group Eight</p> <p><i>Low LOTE, High EMA/Austudy</i></p> <p>0.04 to <= 0.246 LOTE > 0.43 EMA/Austudy</p>	<p>Group Nine</p> <p><i>Medium-High LOTE High EMA/Austudy</i></p> <p>> 0.0246 LOTE > 0.43 EMA/Austudy</p>
<p>Group Four</p> <p><i>Nil-Low LOTE, Medium EMA/Austudy</i></p> <p>0 to <= 0.04 LOTE > 0.2866 to <= 0.43 EMA/Austudy</p>	<p>Group Five</p> <p><i>Low LOTE, Medium EMA/Austudy</i></p> <p>0.04 to <= 0.246 LOTE > 0.2866 to <= 0.43 EMA/Austudy</p>	<p>Group Six</p> <p><i>Medium-High LOTE Medium EMA/Austudy</i></p> <p>> 0.0246 LOTE > 0.2866 to <= 0.43 EMA/Austudy</p>
<p>Group One</p> <p><i>Nil-Low LOTE, Low EMA/Austudy</i></p> <p>0 to <= 0.04 LOTE 0 to <= 0.2866 EMA/Austudy</p>	<p>Group Two</p> <p><i>Low LOTE, Low EMA/Austudy</i></p> <p>> 0.04 to <= 0.246 LOTE 0 to <= 0.2866 EMA/Austudy</p>	<p>Group Three/ Selected Entry (Three S)</p> <p><i>Medium-High LOTE Low EMA/Austudy</i></p> <p>> 0.246 LOTE 0 to <= 0.2866 EMA/Austudy</p>

E X A M P L E

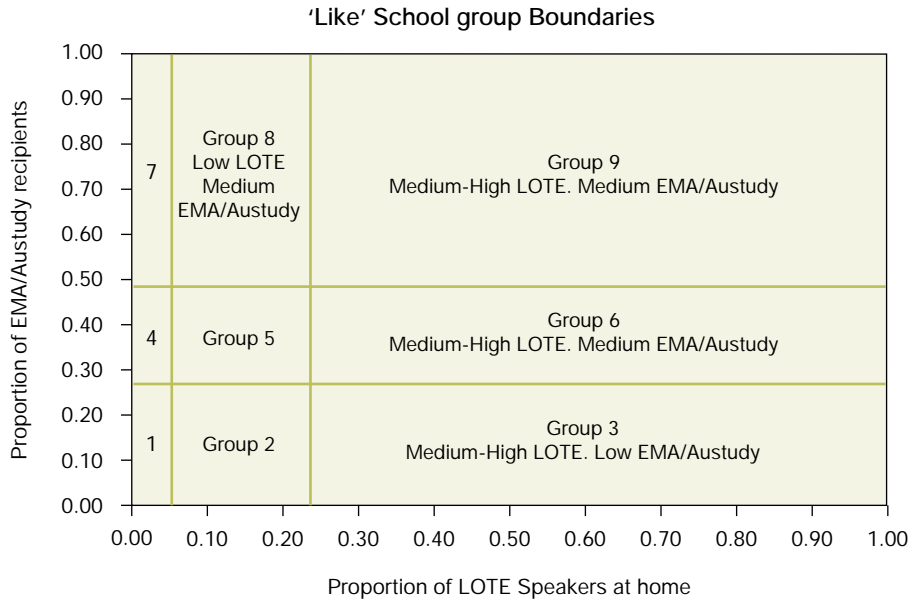
A school for which the proportion of students for whom English is not the main language at home is 0.14 (14%) and the proportion of students on EMA or AUSTUDY is 0.30 (30%), will be included in 'like' school group five.

The position of this school in 'like' school group 5 can be shown as a point on a graph which has the proportion of students with a LOTE spoken at home on one axis and the proportion of students receiving EMA

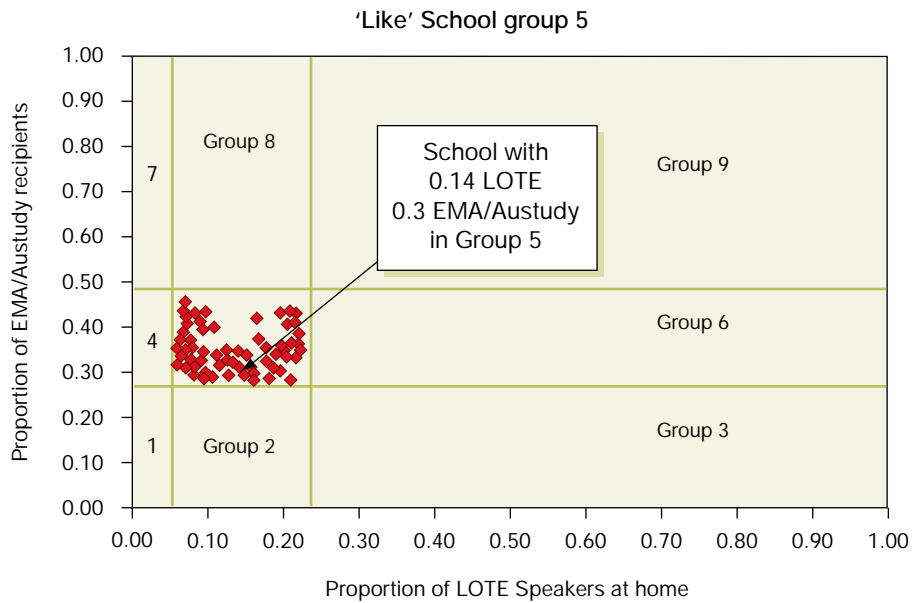
or AUSTUDY on the other. The school will appear as a single point.



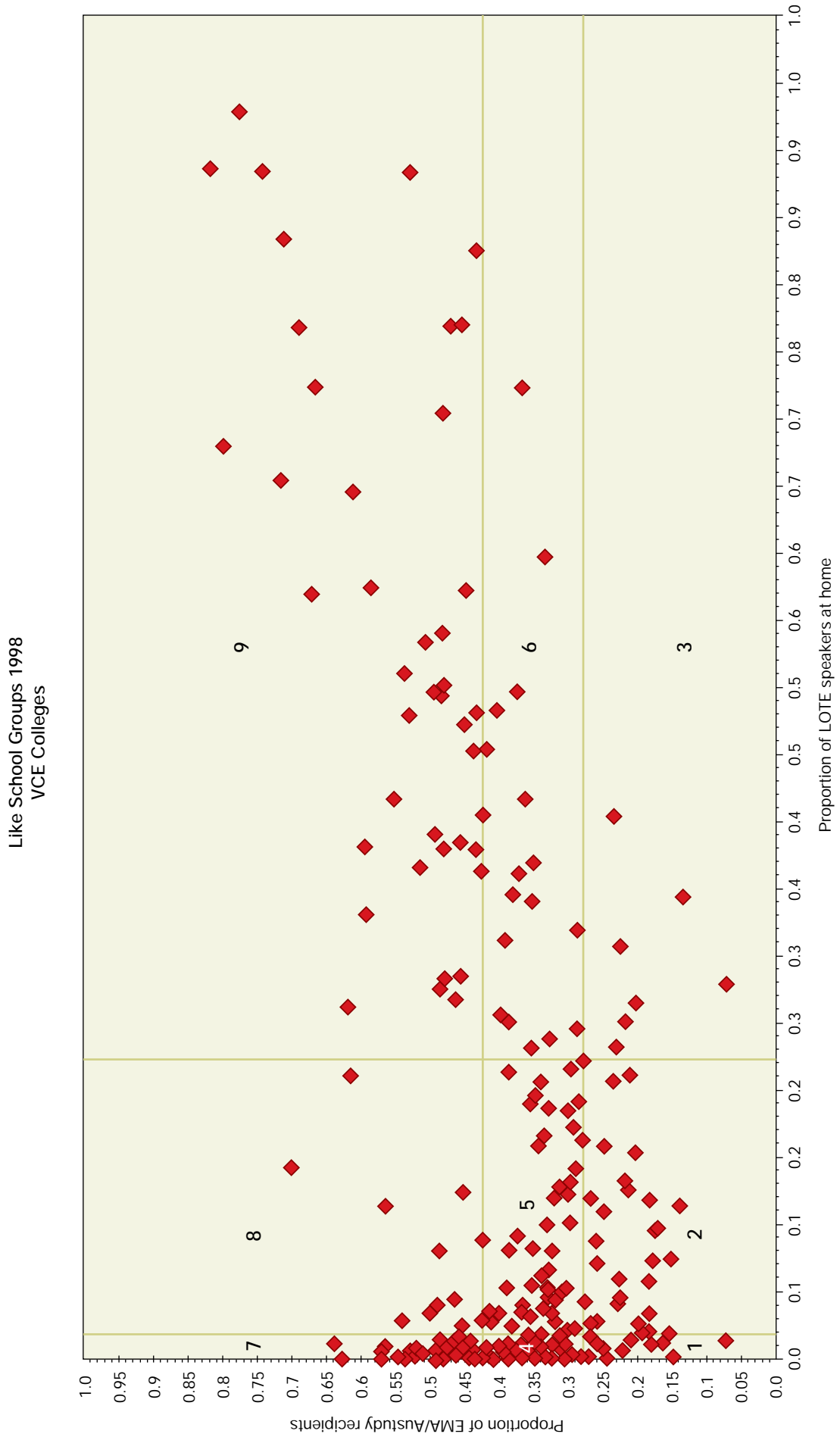
The boundaries of each of the 'like' school groups can also be shown on a graph.



When all the 114 schools in sub-group 5 (primary and secondary) are plotted, the position of the example school with a LOTE proportion of 0.14 and EMA/Austudy of 0.3 can be seen in relation to others in the group.



The position of the school in relation to all VCE provider schools in the state is shown on the following graph.



IDENTIFYING THE RELEVANT 'LIKE' SCHOOL GROUP

The August census form contains all information required to calculate the proportion of students in receipt of

EMA/AUSTUDY and the proportion of students where a language other than English is the main language spoken at

home. An example of the census form is given below.

Year of Education		EMA/Austudy						Not English spoken at home		Total FTE
P										
1										
etc.										
12										
Total FTE		250						117		833

In order to calculate the proportions for a particular school, three figures from the census form are required.

- the total number of students attending the school,
- the number of students at the school for whom English is not the main language spoken at home and
- the number in receipt of either EMA or AUSTUDY.

This information is available from the totals row of the census form, for example:

$$\begin{aligned}
 \text{Proportion of EMA/Austudy} &= \text{Number of students receiving EMA/AUSTUDY divided by the total number of students in the school.} \\
 &= 250/833 \\
 &= 0.30
 \end{aligned}$$

$$\begin{aligned}
 \text{Proportion of NESB} &= \text{Number of students where a LOTE is the main language at home divided by the total number of students in the school.} \\
 &= 117/833 \\
 &= 0.14
 \end{aligned}$$

This places the school in 'like' school group 5.



DEPARTMENT OF EDUCATION