



Victoria

Department of Education,  
Employment and Training

ACCOUNTABILITY AND  
DEVELOPMENT DIVISION

QUALITY ASSURANCE IN  
VICTORIAN SCHOOLS

BENCHMARKS

1999

VCE  
VICTORIAN CERTIFICATE  
OF EDUCATION

VCE Benchmarks 1999

Published by the Department of  
Education, Employment and Training,  
Victoria

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ISBN 0 7306 9199 3

Published by the Community  
Information Service for the  
Accountability and Development Division,  
Department of Education, Employment  
and Training,  
GPO Box 4367  
Melbourne Vic. 3001  
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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 Accountability and Development Division 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 1999 data, nine 'like' school groups are used. The 'like' school groups are based on a three year average (1997 – 1999) of a school's Educational Maintenance Allowance (EMA)/Youth Allowance (Y. A.) and Language Background other than English (LBOTE). A listing of the schools in each group is on the Accountability and Development Division website  
<http://www.sofweb.vic.edu.au/ofreview>

## SCHOOL PERFORMANCE BENCHMARKS 1999

In 2000, the Accountability and Development Division is presenting the 1999 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

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 EMA/Y. A. 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 expectations for themselves.

## STUDENT ACHIEVEMENT VCE 1999

In February each year the Accountability and Development Division 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 1997, 1998 and 1999 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 and performance in English and mathematics.

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 1999 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 1999 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:

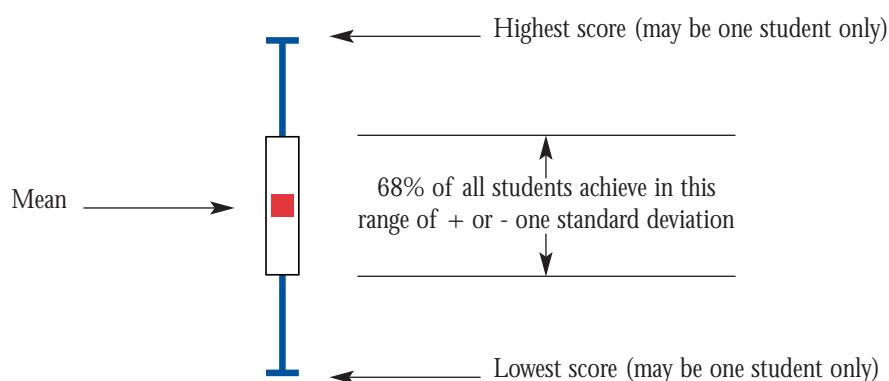
1. Compare the school's distribution of CAT grades with the state results. (Note that the statewide CAT grade distributions were sent to schools with information about their VCE results by the Accountability and Development Division in February 2000). Does the school's distribution of results fit the 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 shaded rectangle). Sixteen percent of students are in the top section and the same proportion in the lower section (see figure below).

3. Compare the school's mean score and standard deviation with that 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 when comparing the performance of boys and girls, it is also the position of the mean and the standard deviation that 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, VCE provision, destination of exit students, geographical location and type of school will also add value to judgements of VCE performance and should 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?

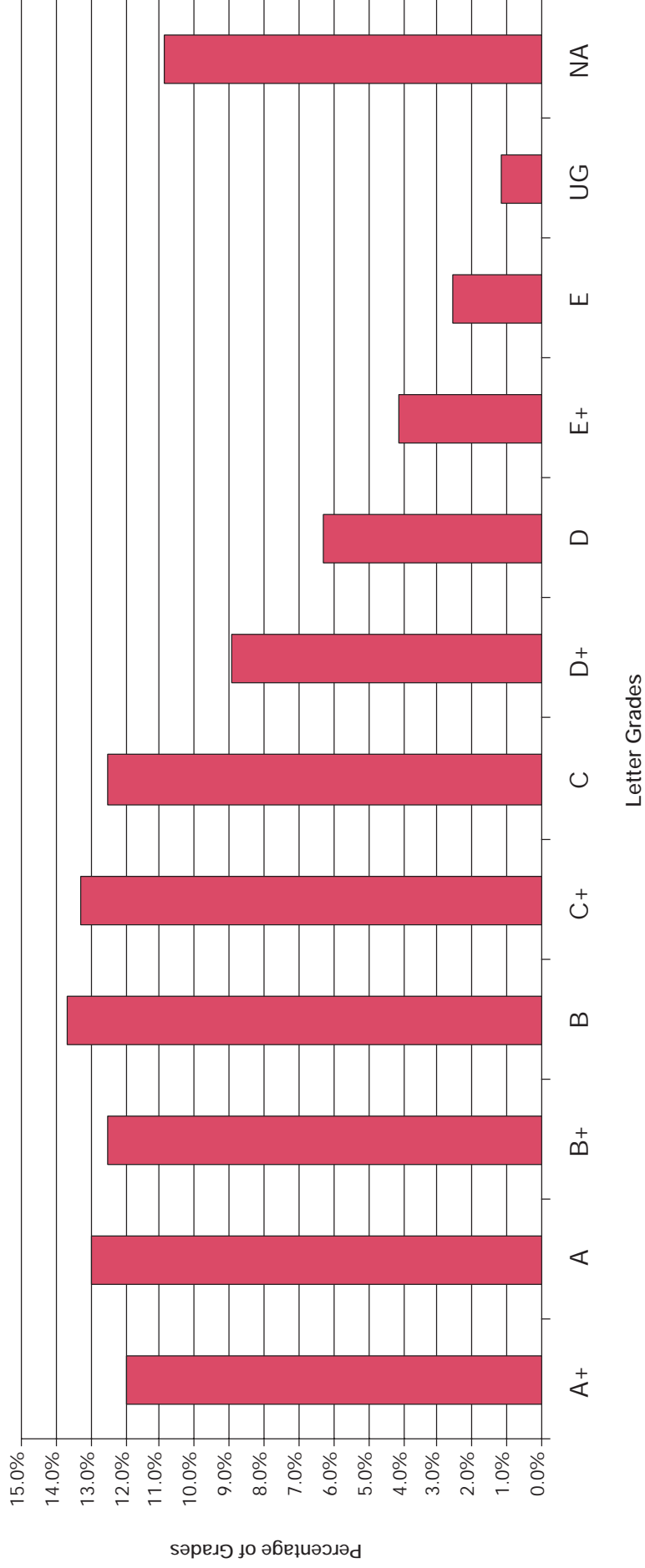
In developing answers to these questions any available data on previous VCE performance, Year 11 – 12 apparent retention rate, the Year 12 completion rate, the destination of exit students, comparisons with 'like' schools and with the state as a whole should all be taken into account. Although VCE results 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  
1999 VCE RESULTS

TABLE 1 DISTRIBUTION OF ALL CATS FOR 1999 VCE RESULTS

Count of Graded and UG CATs	A+	A	B+	B	C+	C	D+	D	E+	E	UG	NA	Count of all CATs including NA*
392,903	12.0%	13.0%	12.5%	13.7%	13.3%	12.5%	8.9%	6.3%	4.1%	2.6%	1.2%	10.9%	441,156





DISTRIBUTION OF 1999 VCE STUDY SCORES  
BY STUDY AREA

ENGLISH

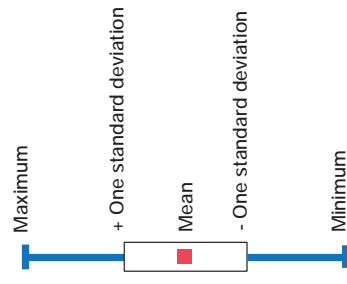
**TABLE 2**

**STUDY SCORE DISTRIBUTION WITHIN THE SPECIFIED STUDY**

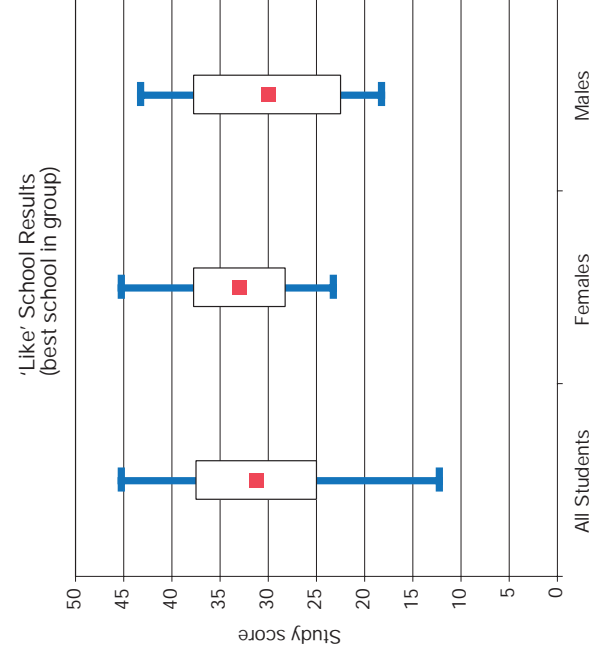
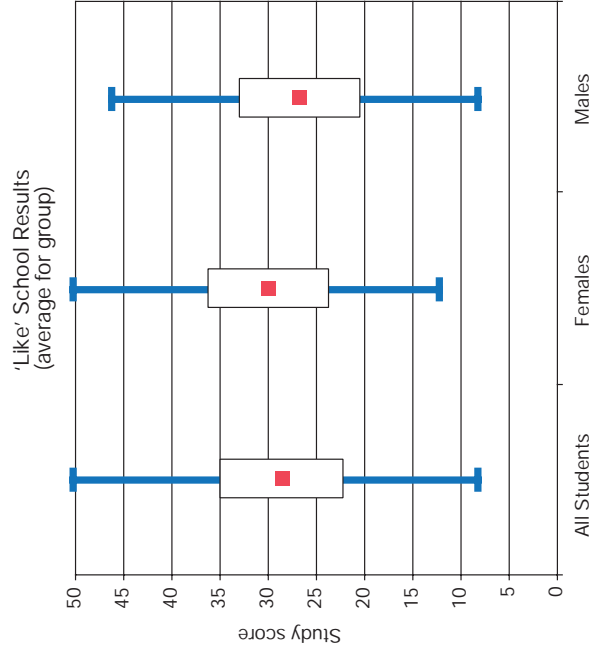
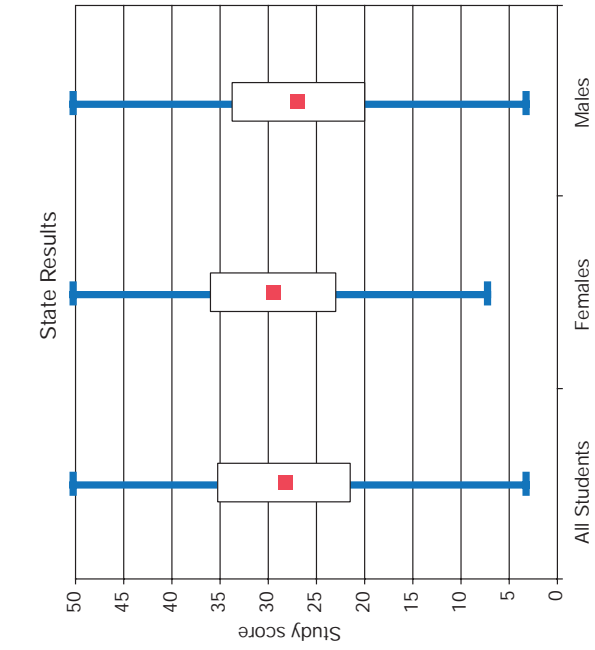
Subject: English

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

KEY



	No. Students	Maximum	Mean + Std. Deviation	Mean	Mean - Std. Deviation	Minimum
State results	All Students	50	35.2	28.4	21.6	3
	Females	50	35.9	29.5	23.0	7
	Males	50	33.9	26.9	20.0	3
'Like' school results (average for group)	All Students	50	35.0	28.6	22.2	8
	Females	50	36.2	30.0	23.8	12
	Males	46	33.0	26.8	20.6	8
'Like' school results (best school in group)	All Students	45	37.5	31.3	25.1	12
	Females	45	37.7	32.9	28.2	23
	Males	43	37.8	30.1	22.4	18



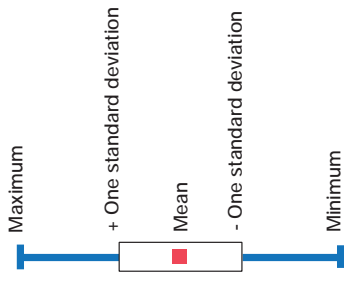
**TABLE 3**

STUDY SCORE DISTRIBUTION WITHIN THE SPECIFIED STUDY

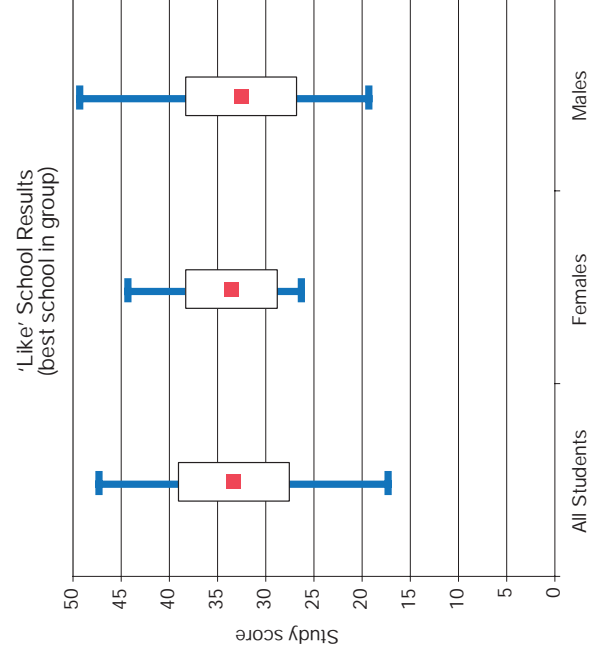
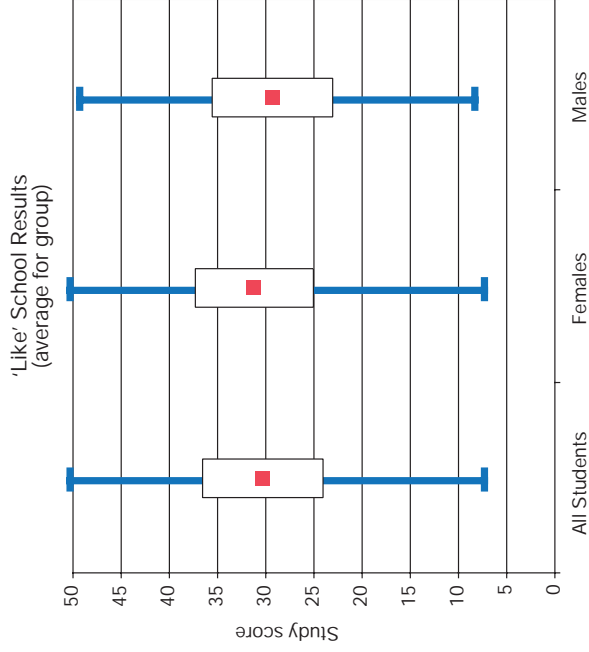
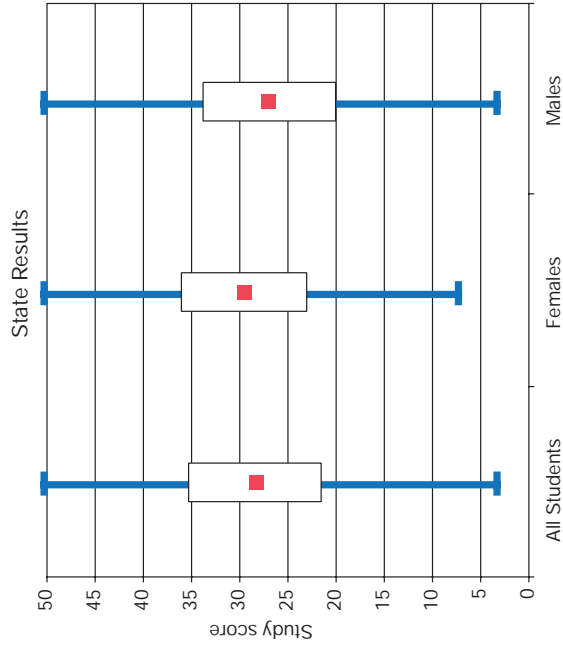
Subject: English

'Like' school group: 2 – Low proportions of LOTE speakers at home/low proportions of EMA or Y. A. recipients

KEY



State results	No. Students		Maximum	Mean + Std. Deviation	Mean	Mean - Std. Deviation	Minimum
	All Students	Females					
'Like' school results (average for group)	All Students	24,129	50	35.2	28.4	21.6	3
	Females	13,631	50	35.9	29.5	23.0	7
'Like' school results (best school in group)	All Students	10,498	50	33.9	26.9	20.0	3
	Females	3,125	50	36.6	30.3	24.0	7
'Like' school results (best school in group)	All Students	1,812	50	37.4	31.2	25.0	7
	Females	1,313	49	35.4	29.1	22.9	8
'Like' school results (best school in group)	All Students	140	47	39.0	33.2	27.5	17
	Females	34	44	38.2	33.5	28.8	26
	All Students	73	49	38.3	32.5	26.6	19



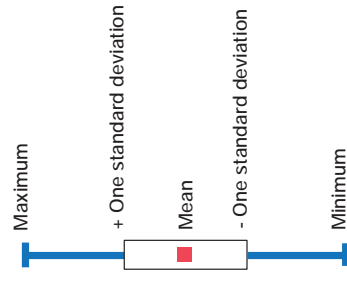
**TABLE 4**

**STUDY SCORE DISTRIBUTION WITHIN THE SPECIFIED STUDY**

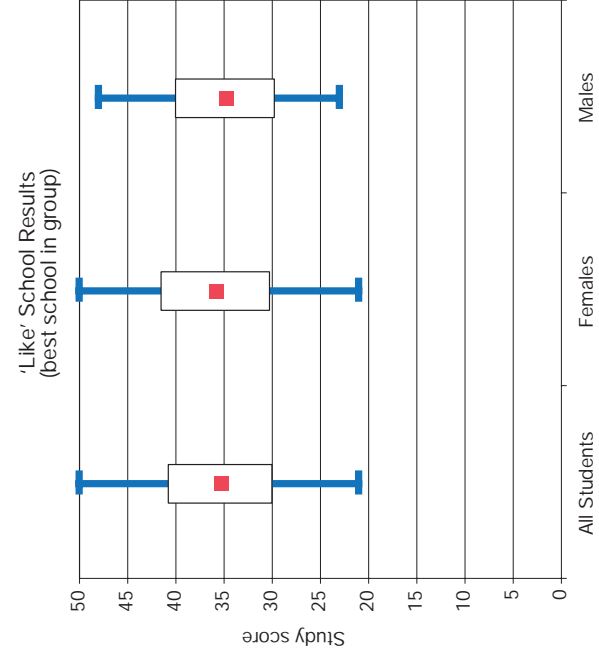
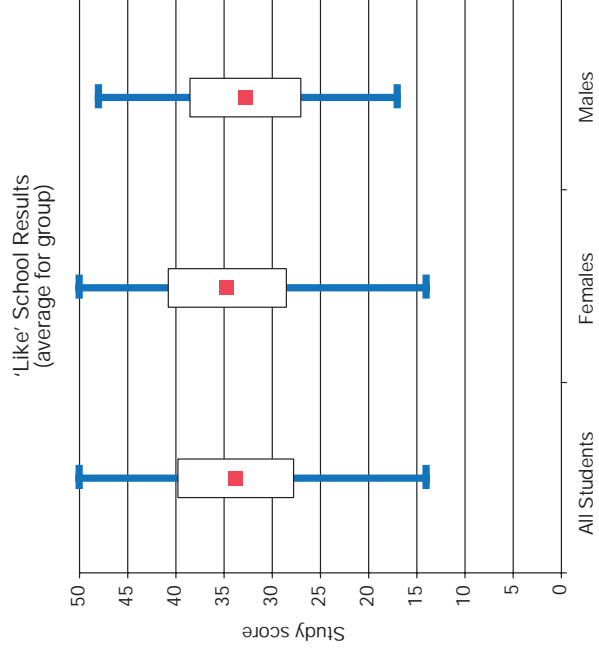
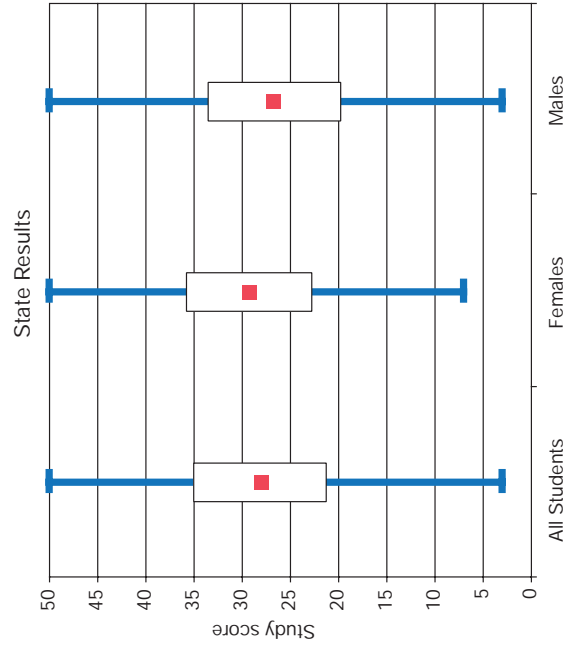
Subject: English

'Like' school group: 3 – Medium to high proportions of LOTE speakers at home/Low proportions of EMA or Y. A. recipients

KEY



	No. Students	Maximum	Mean + Std. Deviation	Mean	Mean - Std. Deviation	Minimum
State results	All Students	50	35.2	28.4	21.6	3
	Females	50	35.9	29.5	23.0	7
	Males	50	33.9	26.9	20.0	3
'Like' school results (average for group)	All Students	50	40.1	34.0	28.0	14
	Females	50	41.0	34.9	28.9	14
	Males	48	38.8	33.0	27.2	17
'Like' school results (best school in group)	All Students	50	41.0	35.6	30.2	21
	Females	50	41.7	36.1	30.4	21
	Males	48	40.2	35.1	30.0	23

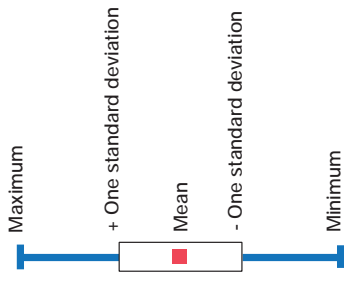


**TABLE 5**

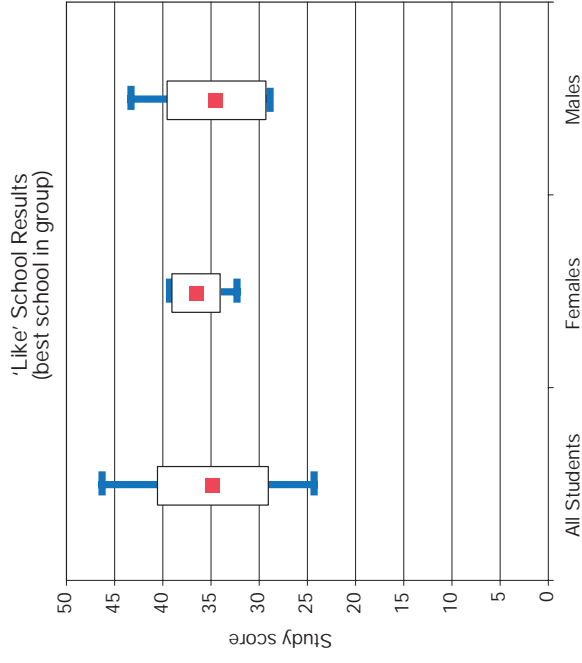
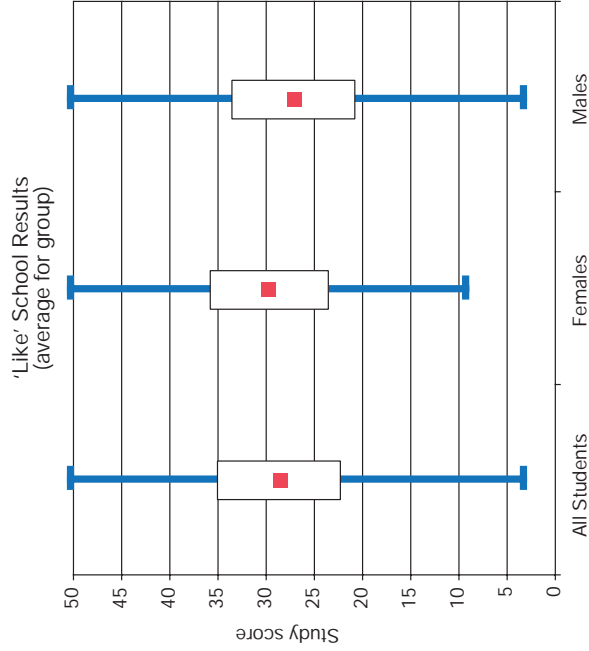
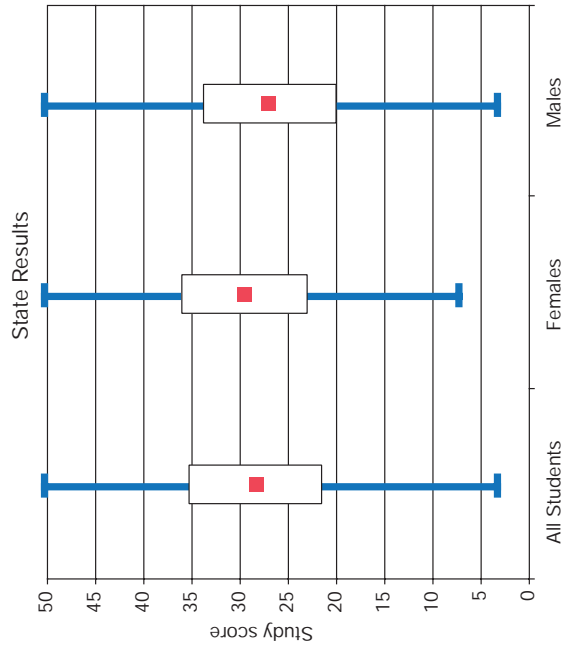
**STUDY SCORE DISTRIBUTION WITHIN THE SPECIFIED STUDY**

Subject: English  
 'Like' school group: 4 – Nil or very low proportions of LOTE speakers at home/Medium proportions of EMA or Y. A. recipients

KEY



	No. Students	Maximum	Mean + Std. Deviation	Mean	Mean - Std. Deviation	Minimum
State results	All Students	50	35.2	28.4	21.6	3
	Females	50	35.9	29.5	23.0	7
	Males	50	33.9	26.9	20.0	3
'Like' school results (average for group)	All Students	50	34.9	28.6	22.3	3
	Females	50	35.7	29.6	23.6	9
	Males	50	33.5	27.1	20.7	3
'Like' school results (best school in group)	All Students	46	40.6	34.8	29.1	24
	Females	39	38.9	36.5	34.1	32
	Males	7	43	34.4	29.3	29



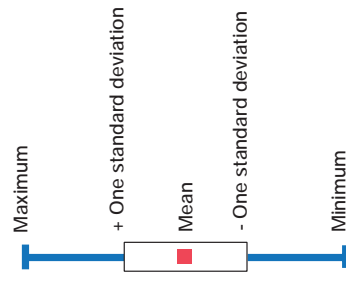
**TABLE 6**

S T U D Y S C O R E D I S T R I B U T I O N W I T H I N T H E S P E C I F I E D S T U D Y

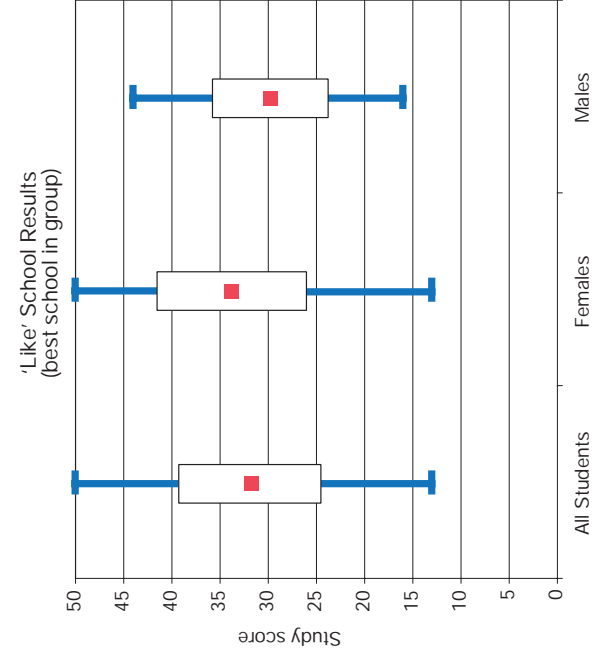
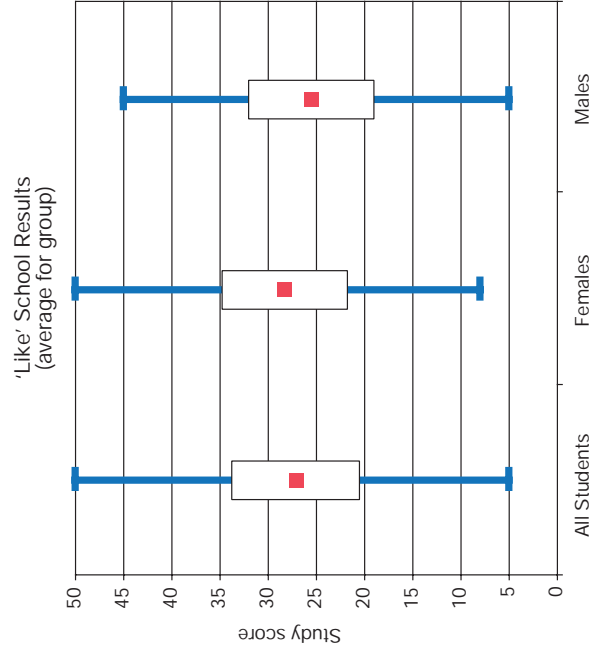
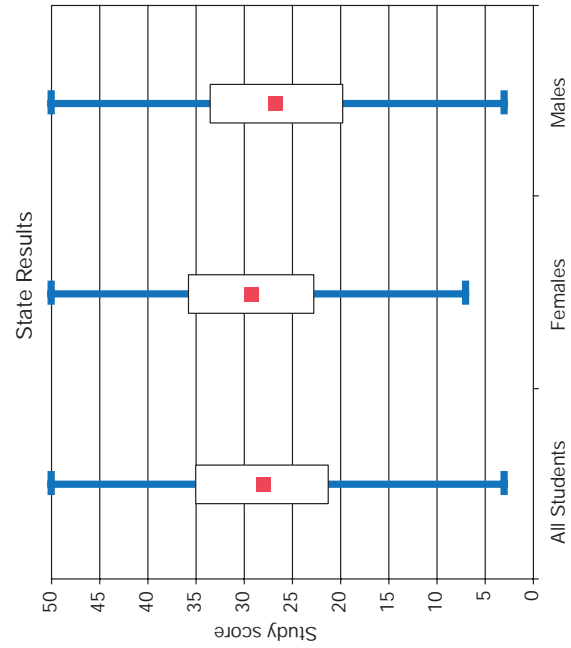
Subject: English

'Like' school group: 5 – Low proportions of LOTE speakers at home/Medium proportions of EMA or Y. A. recipients

KEY



	No. Students	Maximum	Mean + Std. Deviation	Mean	Mean - Std. Deviation	Minimum
State results	All Students	50	35.2	28.4	21.6	3
	Females	50	35.9	29.5	23.0	7
	Males	50	33.9	26.9	20.0	3
'Like' school results (average for group)	All Students	50	33.9	27.3	20.7	5
	Females	50	35.0	28.5	22.1	8
	Males	45	32.3	25.8	19.3	5
'Like' school results (best school in group)	All Students	85	39.4	32.1	24.7	13
	Females	51	41.6	33.9	26.2	13
	Males	37	44	30.0	23.9	16



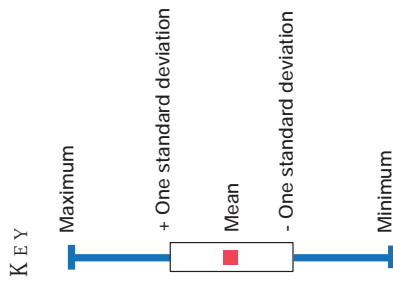


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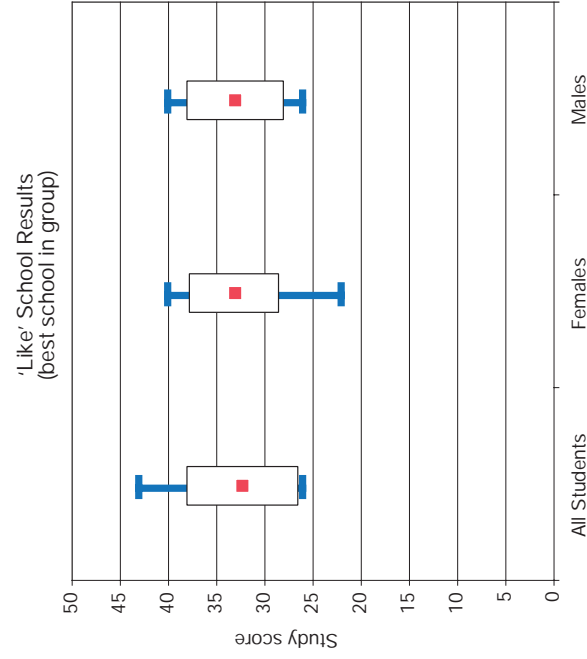
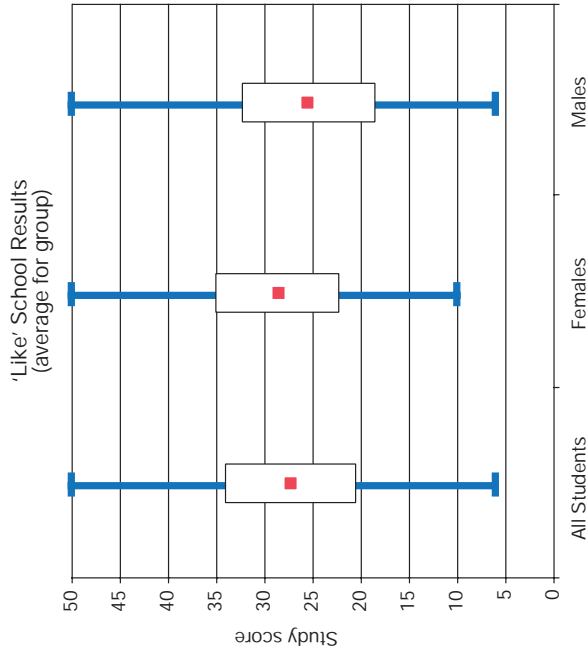
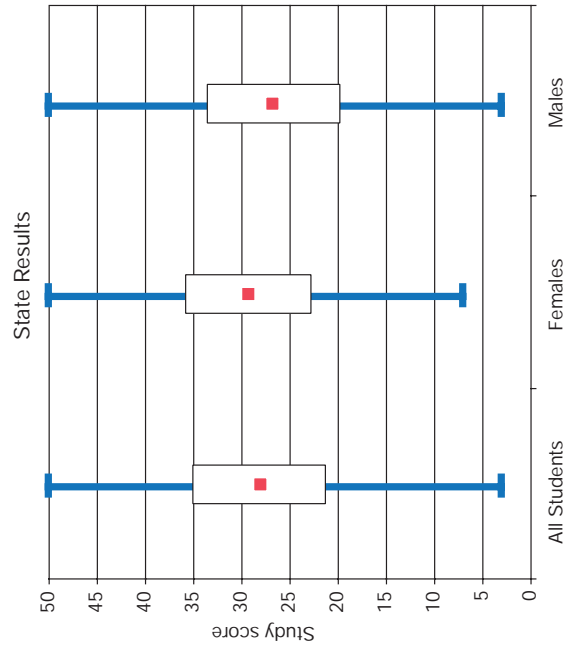
STUDY SCORE DISTRIBUTION WITHIN THE SPECIFIED STUDY

Subject: English

'Like' school group: 7 – Nil or very low proportions of LOTE speakers at home/High proportions of EMA or Y. A. recipients



	No. Students	Maximum	Mean + Std. Deviation	Mean	Mean - Std. Deviation	Minimum
State results	All Students	50	35.2	28.4	21.6	3
	Females	50	35.9	29.5	23.0	7
	Males	50	33.9	26.9	20.0	3
'Like' school results (average for group)	All Students	50	34.3	27.5	20.7	6
	Females	50	35.4	28.9	22.4	10
	Males	50	32.4	25.6	18.9	6
'Like' school results (best school in group)	All Students	43	38.1	32.5	26.9	26
	Females	12	37.9	33.3	28.7	22
	Males	8	40	33.3	28.3	26

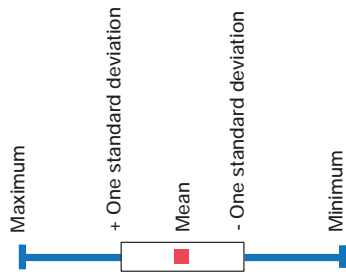


**TABLE 9**

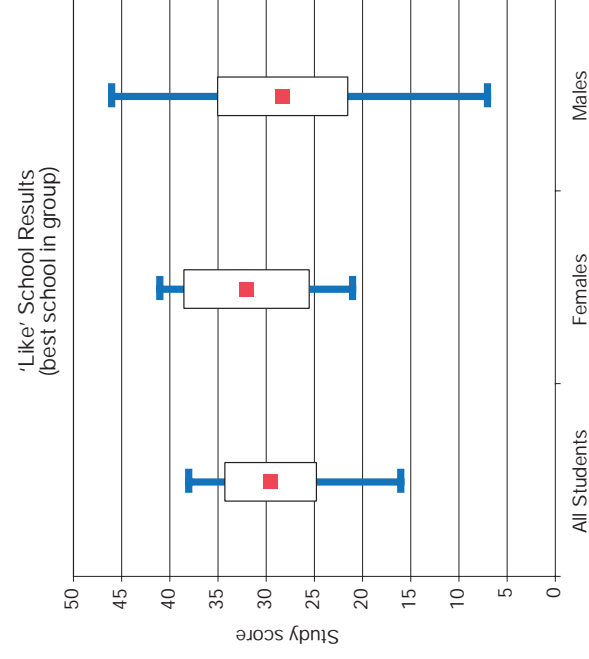
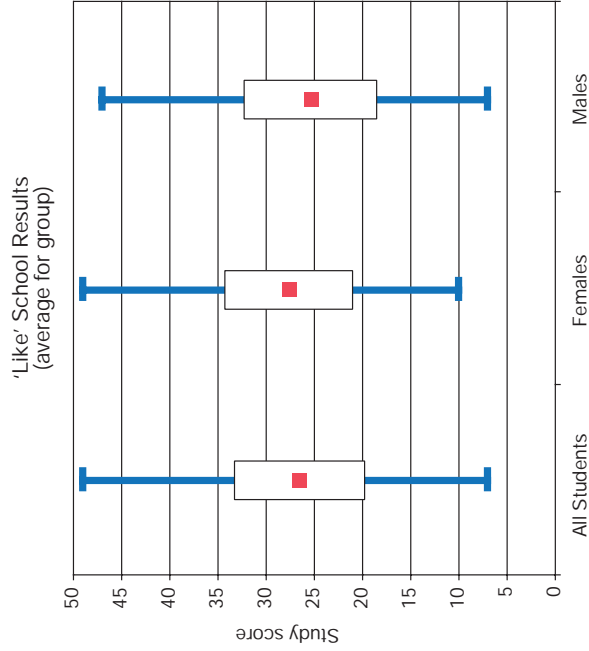
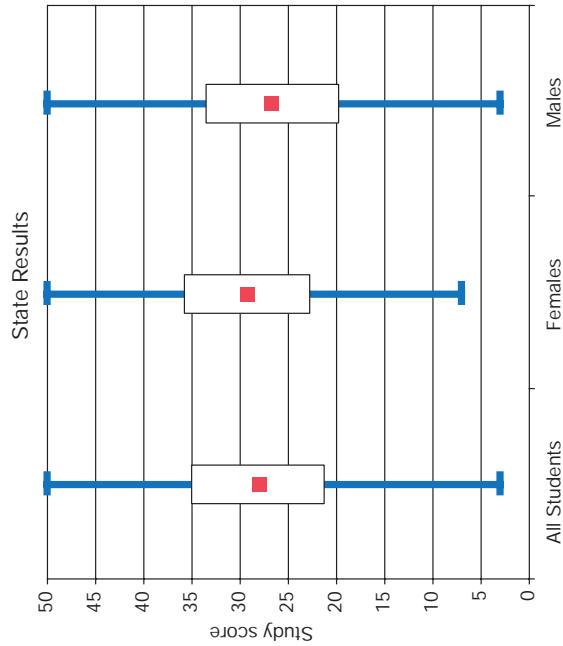
STUDY SCORE DISTRIBUTION WITHIN THE SPECIFIED STUDY

Subject: English  
 'Like' school group: 8 – Low proportions of LOTE speakers at home/High proportions of EMA or Y. A. recipients

KEY



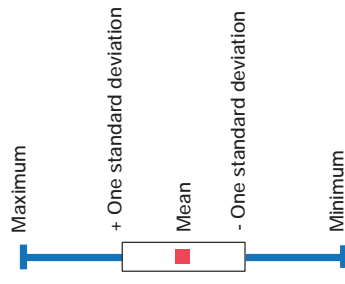
	No. Students	Maximum	Mean + Std. Deviation	Mean	Mean - Std. Deviation	Minimum
State results	All Students	50	35.2	28.4	21.6	3
	Females	50	35.9	29.5	23.0	7
	Males	50	33.9	26.9	20.0	3
'Like' school results (average for group)	All Students	49	33.6	26.8	20.0	7
	Females	49	34.4	27.9	21.3	10
	Males	47	32.4	25.6	18.7	7
'Like' school results (best school in group)	All Students	38	34.5	29.7	24.9	16
	Females	7	38.7	32.3	25.9	21
	Males	118	46	28.5	21.8	7



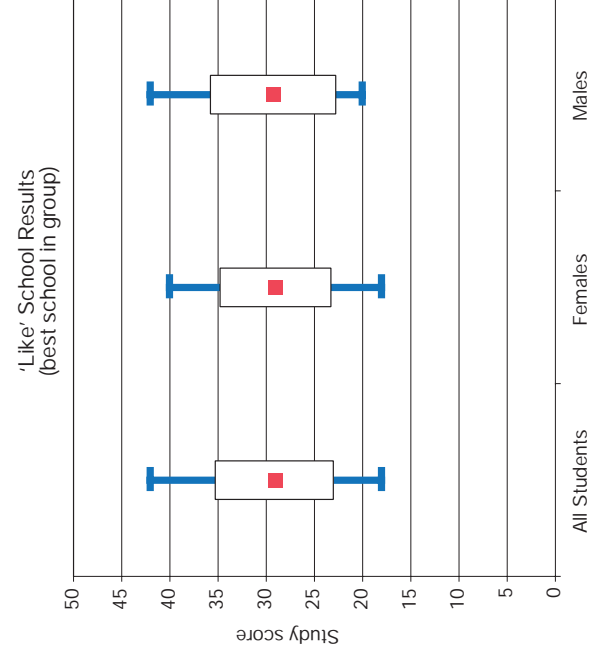
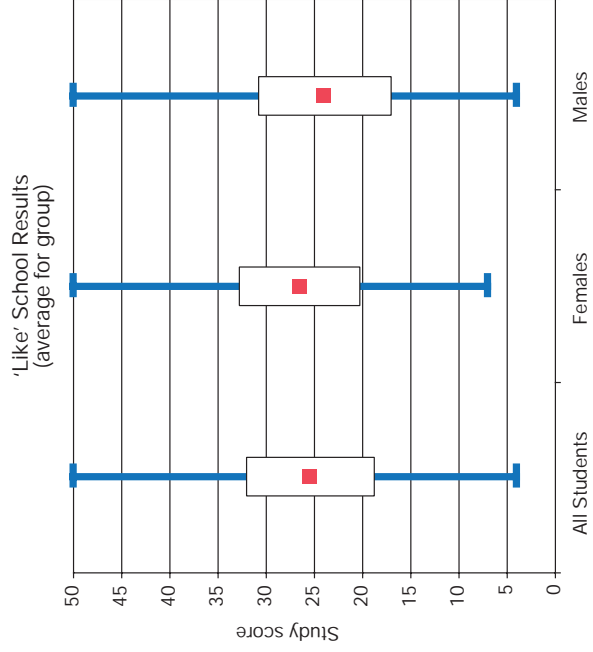
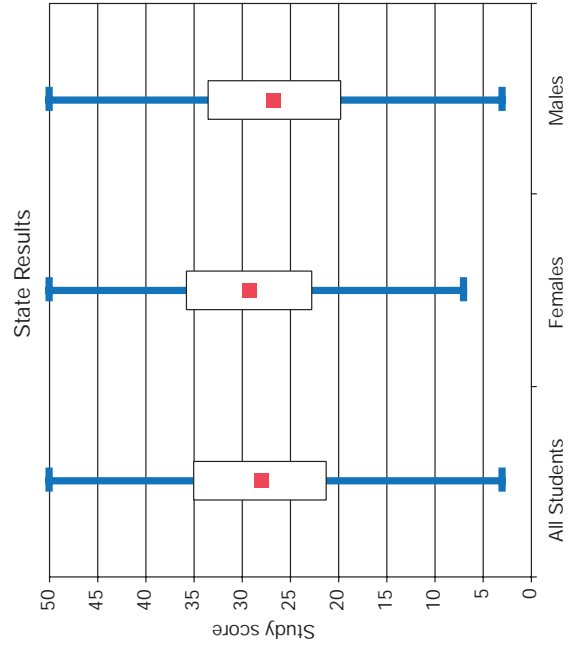
**TABLE 10** STUDY SCORE DISTRIBUTION WITHIN THE SPECIFIED STUDY

Subject: English  
 'Like' school group: 9 – Medium to high proportions of LOTE speakers at home/High proportions of EMA or Y. A. recipients

KEY



	All Students	No. Students	Maximum	Mean + Std. Deviation	Mean	Mean - Std. Deviation	Minimum
State results	All Students	24,129	50	35.2	28.4	21.6	3
	Females	13,631	50	35.9	29.5	23.0	7
	Males	10,498	50	33.9	26.9	20.0	3
'Like' school results (average for group)	All Students	2,891	50	32.3	25.7	19.1	4
	Females	1,650	50	33.1	26.8	20.6	7
	Males	1,241	50	31.0	24.2	17.3	4
'Like' school results (best school in group)	All Students	56	42	35.4	29.3	23.3	18
	Females	32	40	34.9	29.2	23.4	18
	Males	24	42	36.1	29.5	23.0	20





DISTRIBUTION OF 1999 VCE STUDY SCORES  
BY STUDY AREA

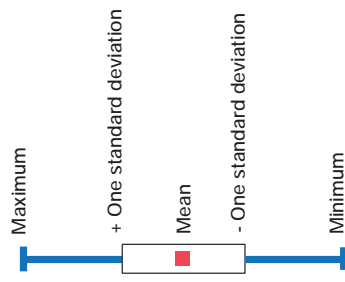
FURTHER MATHEMATICS

**TABLE 11** STUDY SCORE DISTRIBUTION WITHIN THE SPECIFIED STUDY

Subject: Further Mathematics

'Like' school group: 1 – Nil or very low proportions of LOTE speakers at home/Low proportions of EMA or Y. A. recipients

KEY



	No. Students	Maximum	Mean + Std. Deviation	Mean	Mean - Std. Deviation	Minimum
State results	All Students	50	36.1	29.0	21.9	5
	Females	50	36.6	29.7	22.9	5
	Males	50	35.5	28.2	20.9	6
'Like' school results (average for group)	All Students	50	36.4	30.2	23.9	13
	Females	47	37.0	31.1	25.1	15
	Males	50	35.6	29.1	22.7	13
'Like' school results (best school in group)	All Students	44	42.2	37.1	32.0	26
	Females	44	43.0	40.6	38.2	38
	Males	39	39.0	34.3	29.7	26

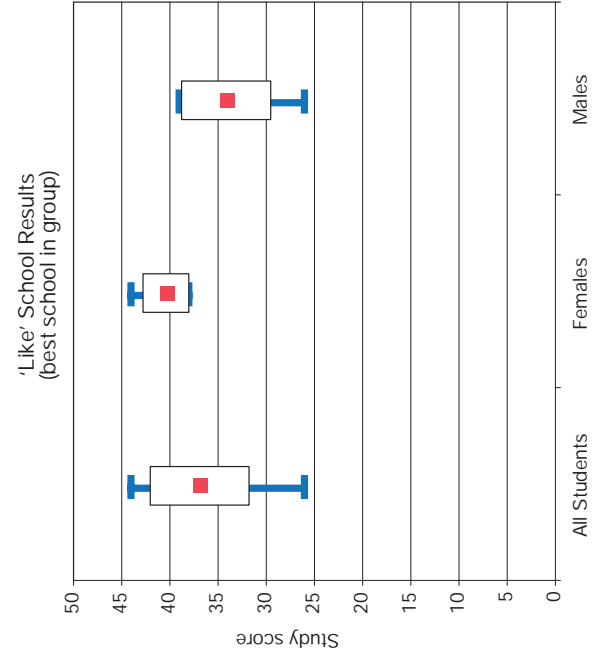
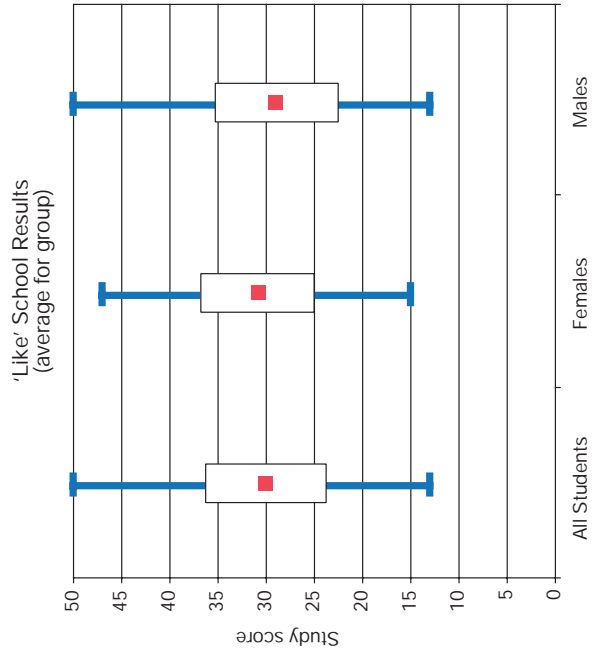
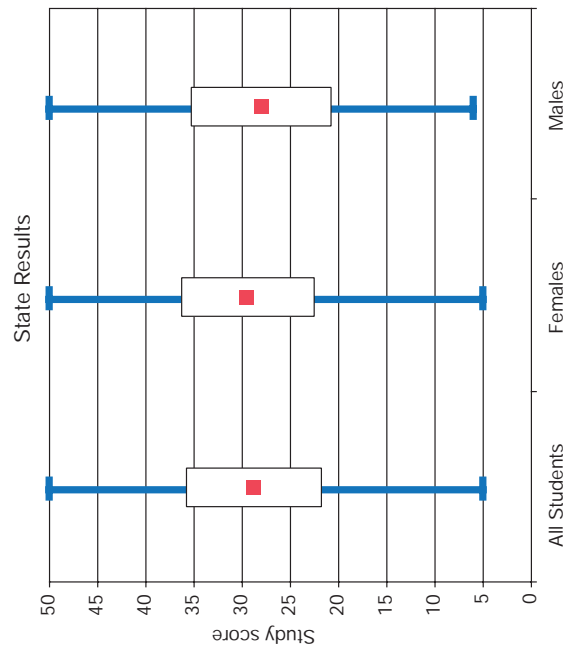
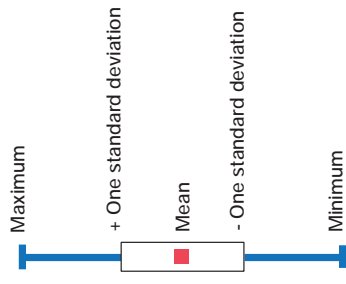


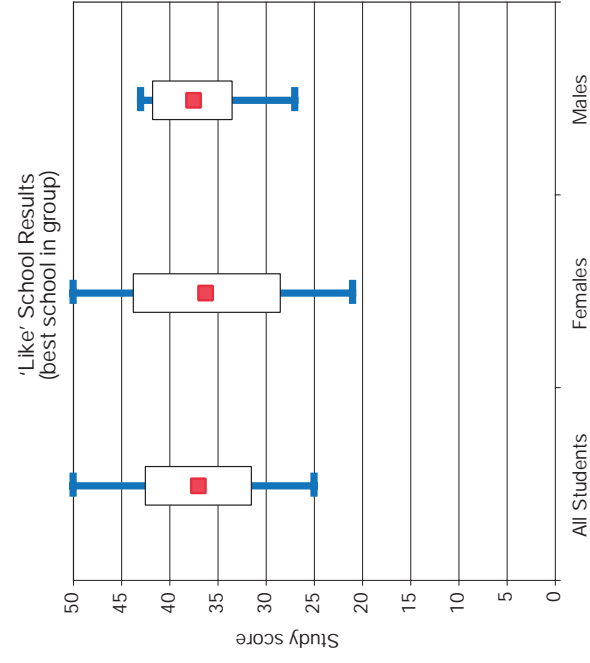
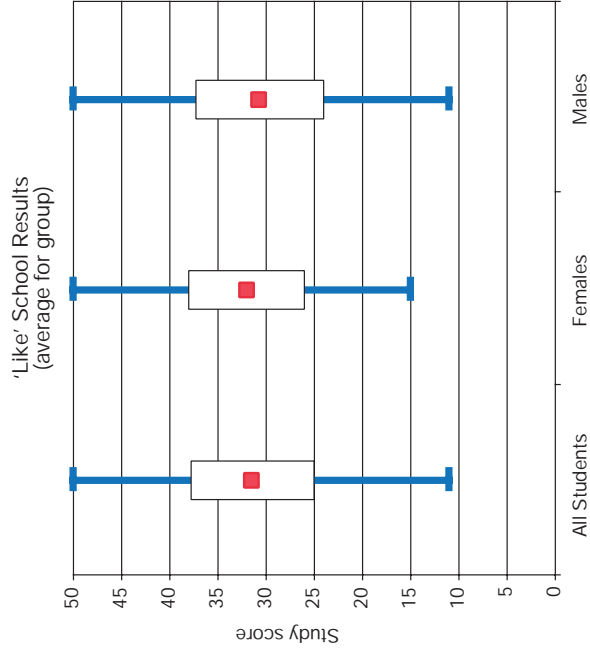
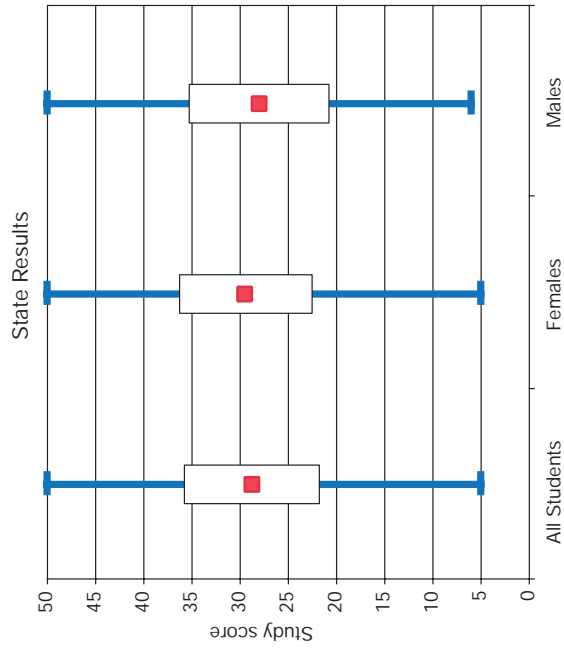
TABLE 12 STUDY SCORE DISTRIBUTION WITHIN THE SPECIFIED STUDY

Subject: Further Mathematics  
 'Like' school group: 2 – Low proportions of LOTE speakers at home/Low proportions of EMA or Y. A. recipients

KEY



	No. Students	Maximum	Mean + Std. Deviation	Mean	Mean - Std. Deviation	Minimum
State results	All Students	50	36.1	29.0	21.9	5
	Females	50	36.6	29.7	22.9	5
	Males	50	35.5	28.2	20.9	6
'Like' school results (average for group)	All Students	50	38.1	31.7	25.4	11
	Females	50	38.3	32.3	26.3	15
	Males	50	37.6	30.9	24.2	11
'Like' school results (best school in group)	All Students	50	42.7	37.2	31.7	25
	Females	50	44.1	36.4	28.8	21
	Males	43	42.0	37.8	33.7	27



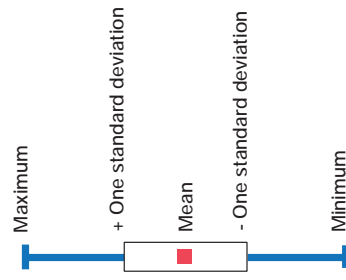
**TABLE 13**

**STUDY SCORE DISTRIBUTION WITHIN THE SPECIFIED STUDY**

Subject: Further Mathematics

'Like' school group: 3 – Medium to high proportions of LOTE speakers at home/low proportions of EMA or Y. A. recipients

KEY



	No. Students	Maximum	Mean + Std. Deviation	Mean	Mean - Std. Deviation	Minimum
State results	All Students	50	36.1	29.0	21.9	5
	Females	50	36.6	29.7	22.9	5
	Males	50	35.5	28.2	20.9	6
'Like' school results (average for group)	All Students	50	39.3	32.8	26.2	16
	Females	76	40.7	34.1	27.4	16
	Males	85	50	37.8	31.6	18
'Like' school results (best school in group)	All Students	54	41.8	37.1	32.5	26
	Females	32	42.4	38.2	34.0	28
	Males	22	44	35.6	30.6	26

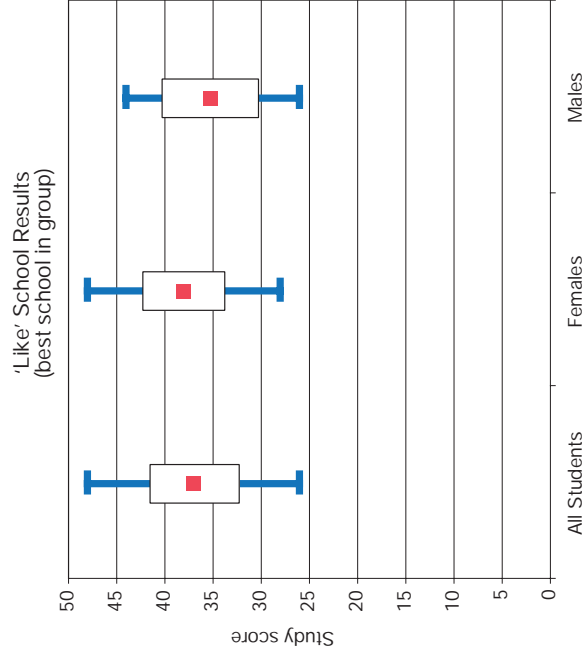
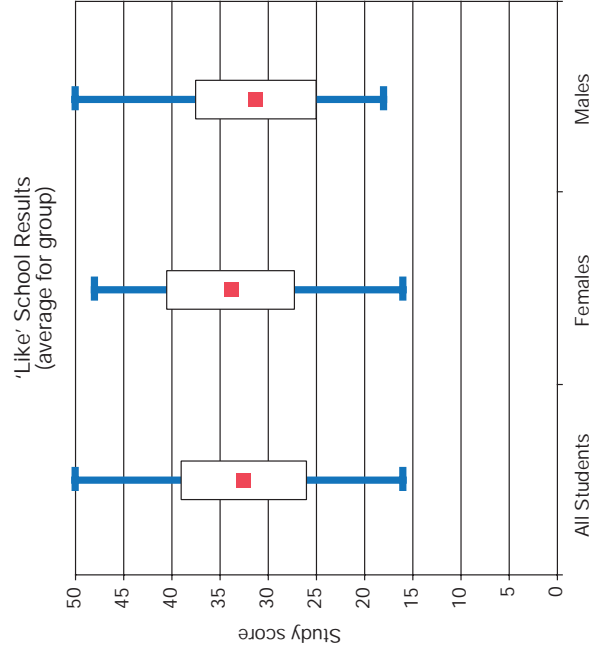
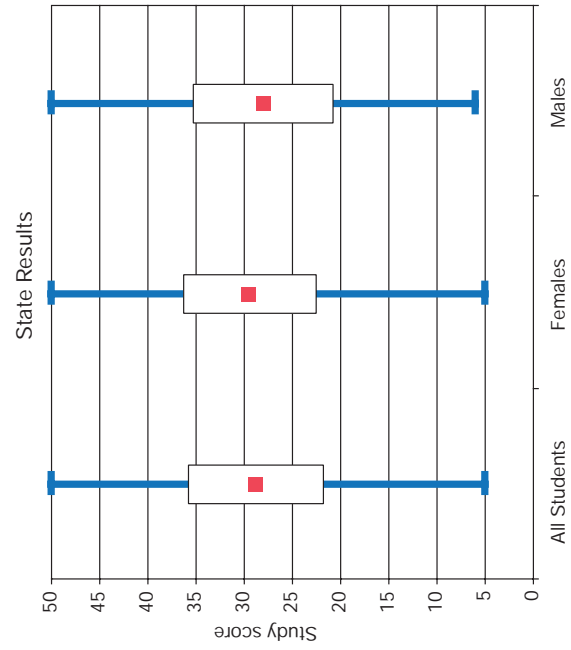
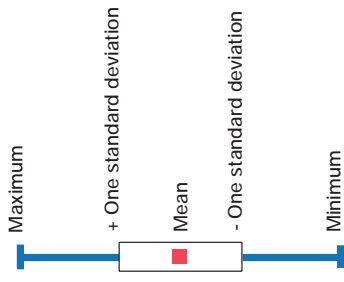


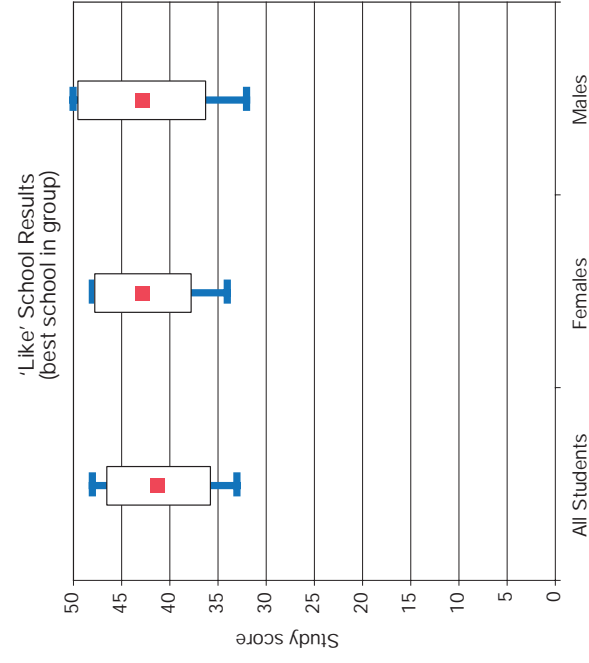
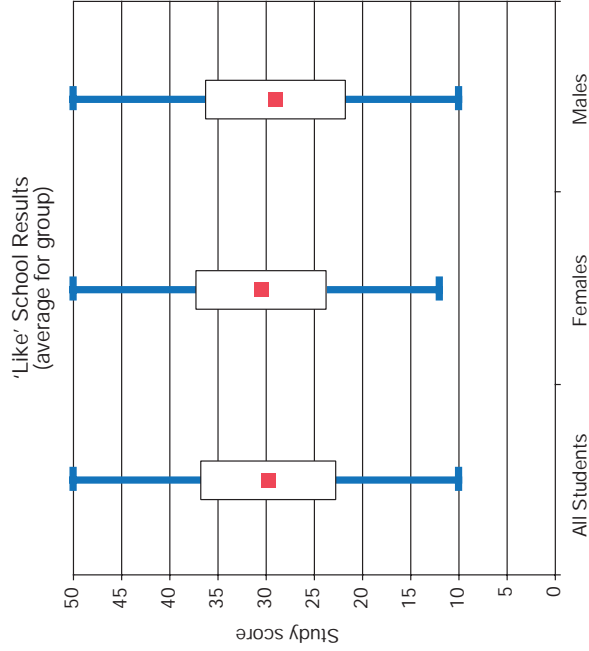
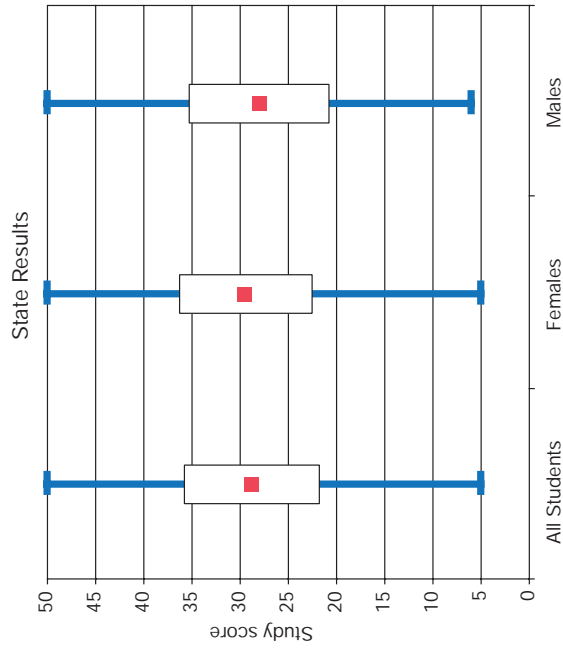
TABLE 14 STUDY SCORE DISTRIBUTION WITHIN THE SPECIFIED STUDY

Subject: Further Mathematics  
 'Like' school group: 4 – Nil or very low proportions of LOTE speakers at home/Medium proportions of EMA or Y. A. recipients

KEY



	No. Students	Maximum	Mean + Std. Deviation	Mean	Mean - Std. Deviation	Minimum
State results	All Students	8,842	36.1	29.0	21.9	5
	Females	4,854	36.6	29.7	22.9	5
	Males	3,988	50	28.2	20.9	6
'Like' school results (average for group)	All Students	50	37.0	30.1	23.1	10
	Females	1,383	37.4	30.7	24.0	12
	Males	1,078	50	29.2	22.0	10
'Like' school results (best school in group)	All Students	15	46.7	41.4	36.1	33
	Females	10	48.0	43.0	38.0	34
	Males	8	50	43.1	36.6	32



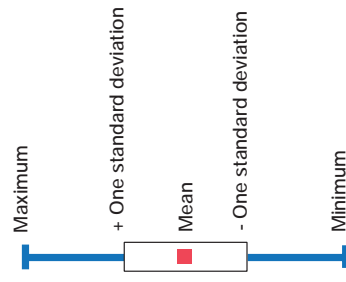
**TABLE 15**

**STUDY SCORE DISTRIBUTION WITHIN THE SPECIFIED STUDY**

Subject: Further Mathematics

'Like' school group: 5 – Low proportions of LOTE speakers at home/Medium proportions of EMA or Y. A. recipients

KEY



	No. Students	Maximum	Mean + Std. Deviation	Mean	Mean - Std. Deviation	Minimum
State results	All Students	50	36.1	29.0	21.9	5
	Females	50	36.6	29.7	22.9	5
	Males	50	35.5	28.2	20.9	6
'Like' school results (average for group)	All Students	50	34.7	28.0	21.4	5
	Females	50	35.1	28.6	22.2	5
	Males	47	34.2	27.4	20.5	10
'Like' school results (best school in group)	All Students	9	39.9	34.4	29.0	29
	Females	6	41.1	38.3	35.5	35
	Males	17	40.3	32.8	25.3	19

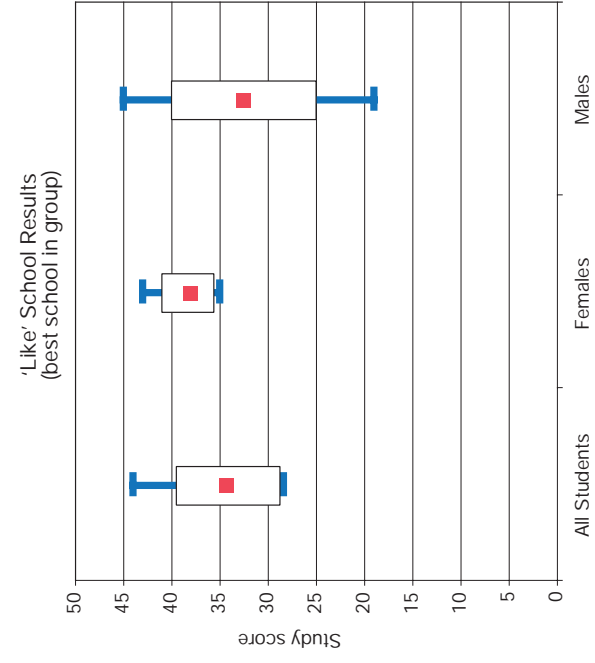
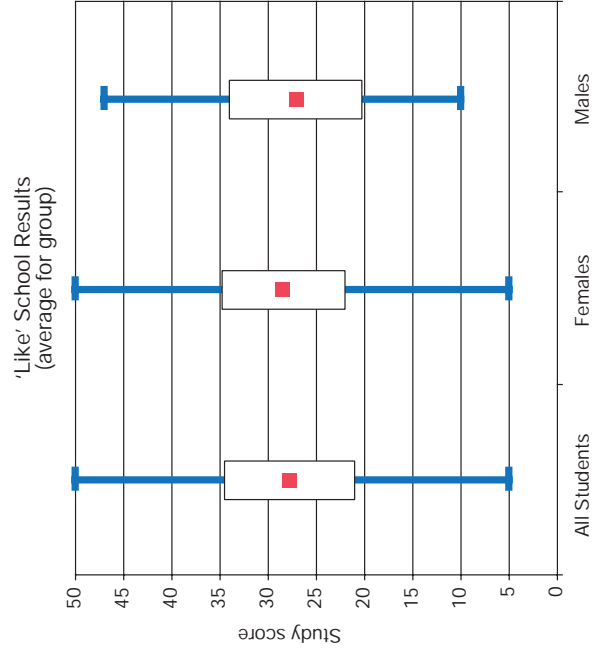
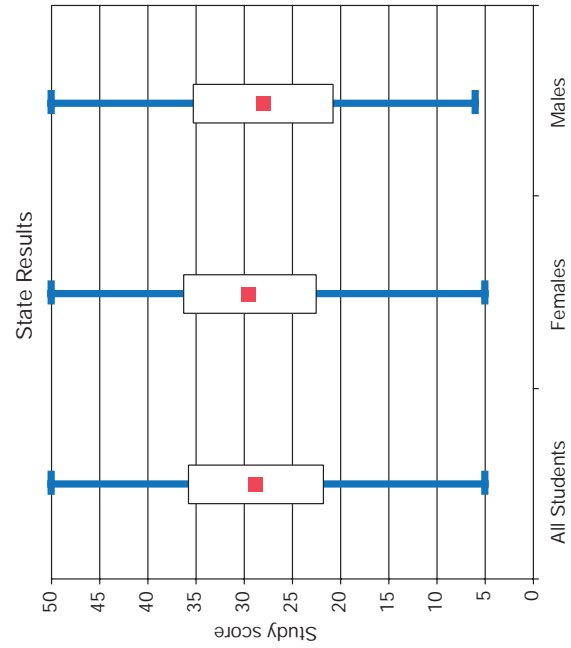
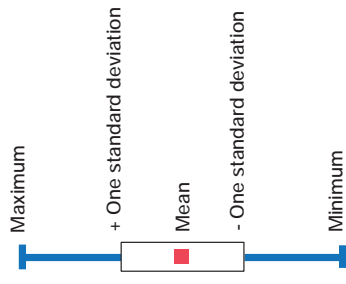


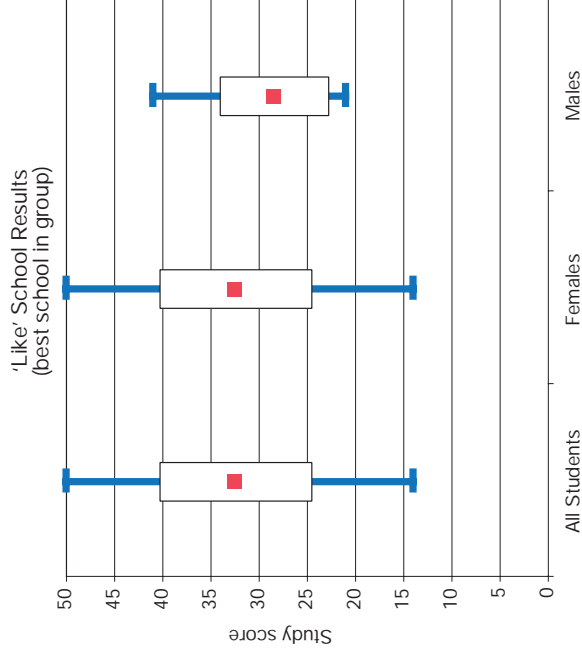
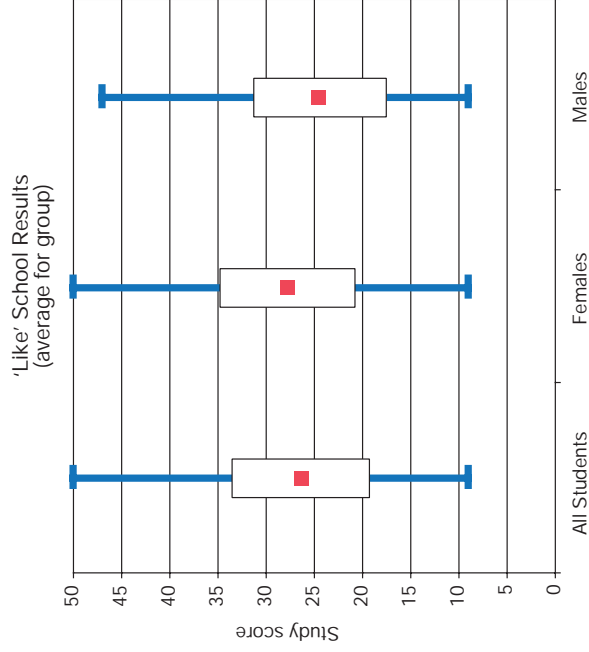
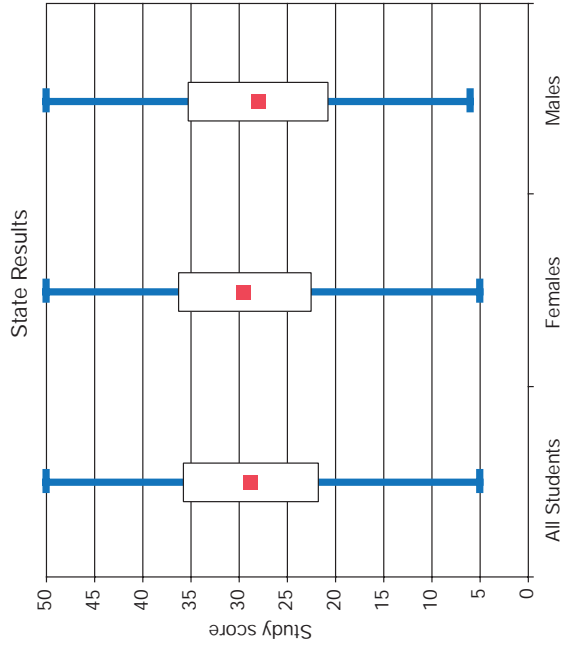
TABLE 16 STUDY SCORE DISTRIBUTION WITHIN THE SPECIFIED STUDY

Subject: Further Mathematics  
 'Like' school group: 6 – Medium to high proportions of LOTE speakers at home/Medium proportions of EMA or Y. A. recipients

KEY



	No. Students	Maximum	Mean + Std. Deviation	Mean	Mean - Std. Deviation	Minimum
State results	All Students	50	36.1	29.0	21.9	5
	Females	50	36.6	29.7	22.9	5
	Males	50	35.5	28.2	20.9	6
'Like' school results (average for group)	All Students	50	33.7	26.6	19.5	9
	Females	50	34.9	27.9	20.9	9
	Males	47	31.6	24.7	17.8	9
'Like' school results (best school in group)	All Students	50	40.6	32.7	24.8	14
	Females	50	40.6	32.7	24.8	14
	Males	41	34.2	28.6	23.0	21



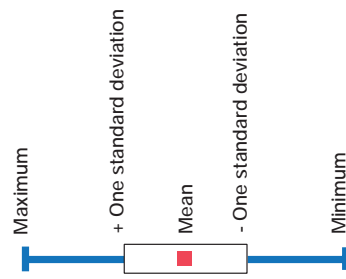
**TABLE 17**

**STUDY SCORE DISTRIBUTION WITHIN THE SPECIFIED STUDY**

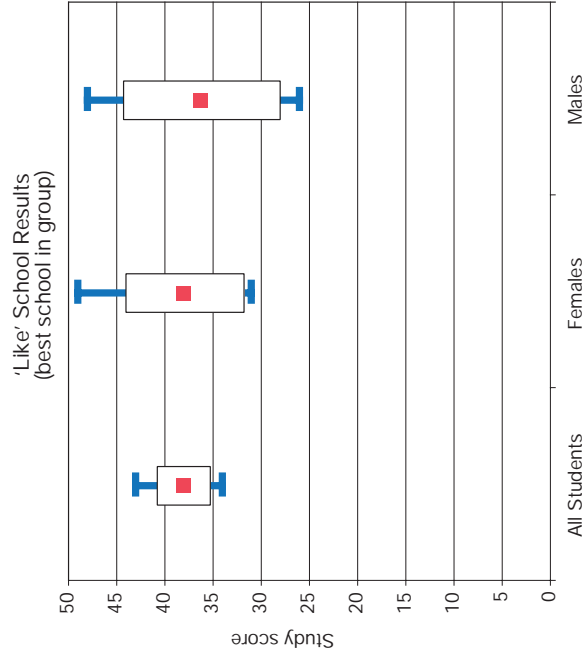
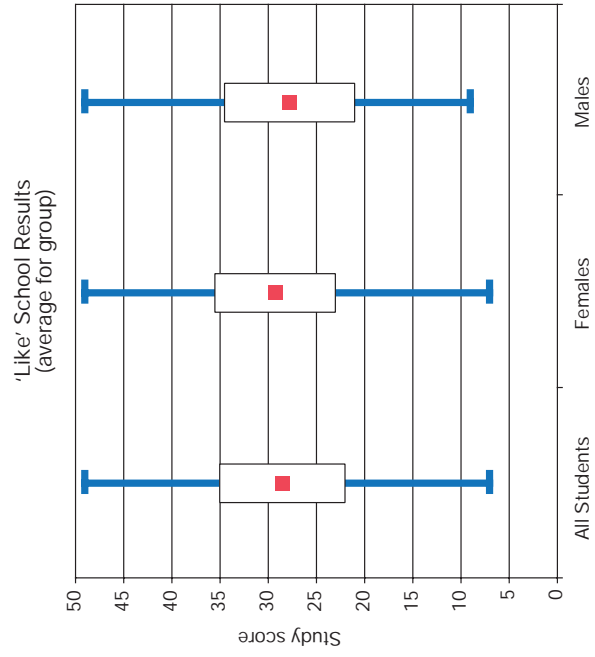
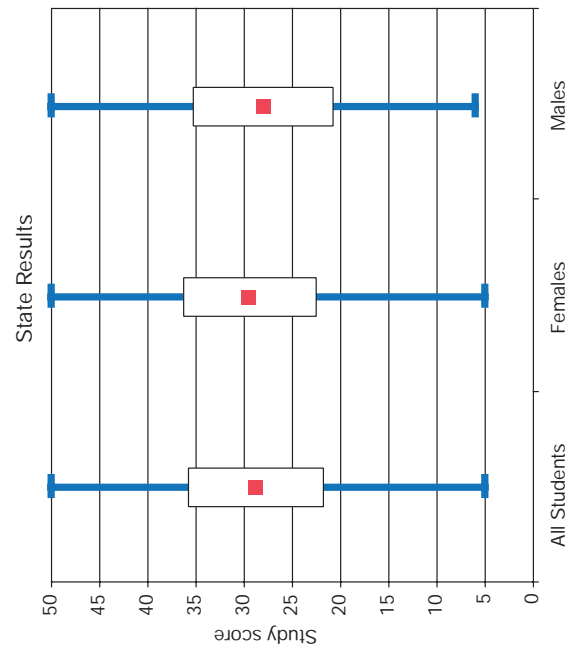
Subject: Further Mathematics

'Like' school group: 7 – Nil or very low proportions of LOTE speakers at home/High proportions of EMA or Y. A. recipients

KEY



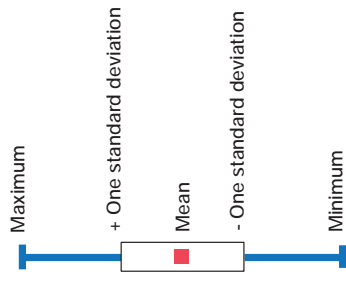
	No. Students	Maximum	Mean + Std. Deviation	Mean	Mean - Std. Deviation	Minimum
State results	All Students	50	36.1	29.0	21.9	5
	Females	50	36.6	29.7	22.9	5
	Males	50	35.5	28.2	20.9	6
'Like' school results (average for group)	All Students	49	35.4	28.8	22.2	7
	Females	49	35.8	29.5	23.2	7
	Males	49	34.7	28.0	21.2	9
'Like' school results (best school in group)	All Students	43	40.9	38.2	35.4	34
	Females	49	44.3	38.2	32.0	31
	Males	48	44.6	36.4	28.2	26



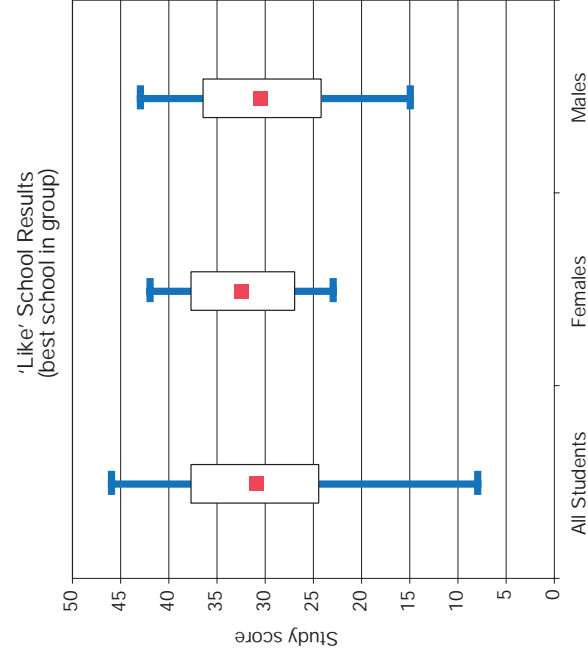
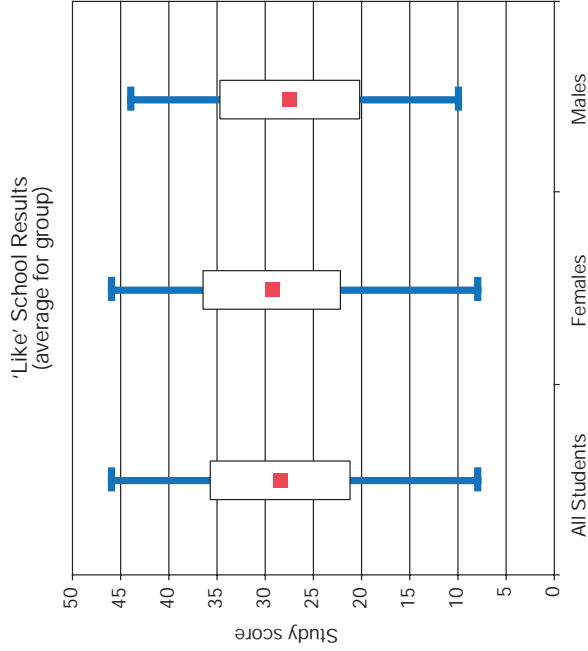
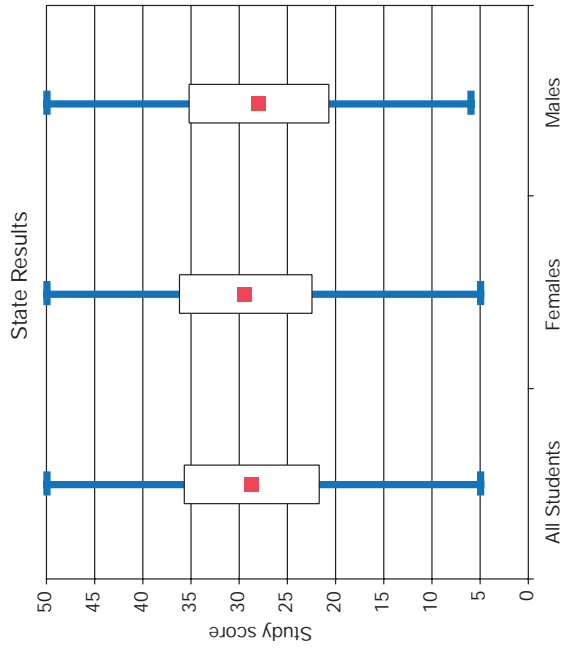
**TABLE 18** STUDY SCORE DISTRIBUTION WITHIN THE SPECIFIED STUDY

Subject: Further Mathematics  
 'Like' school group: 8 – Low proportions of LOTE speakers at home/High proportions of EMA or Y. A. recipients

KEY



	No. Students	Maximum	Mean + Std. Deviation	Mean	Mean - Std. Deviation	Minimum
State results	All Students	50	36.1	29.0	21.9	5
	Females	50	36.6	29.7	22.9	5
	Males	50	35.5	28.2	20.9	6
'Like' school results (average for group)	All Students	46	35.9	28.7	21.6	8
	Females	46	36.7	29.5	22.4	8
	Males	44	34.9	27.7	20.6	10
'Like' school results (best school in group)	All Students	46	38.0	31.3	24.7	8
	Females	42	38.1	32.7	27.3	23
	Males	43	36.8	30.6	24.5	15



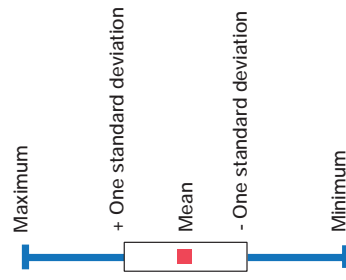
**TABLE 19**

**STUDY SCORE DISTRIBUTION WITHIN THE SPECIFIED STUDY**

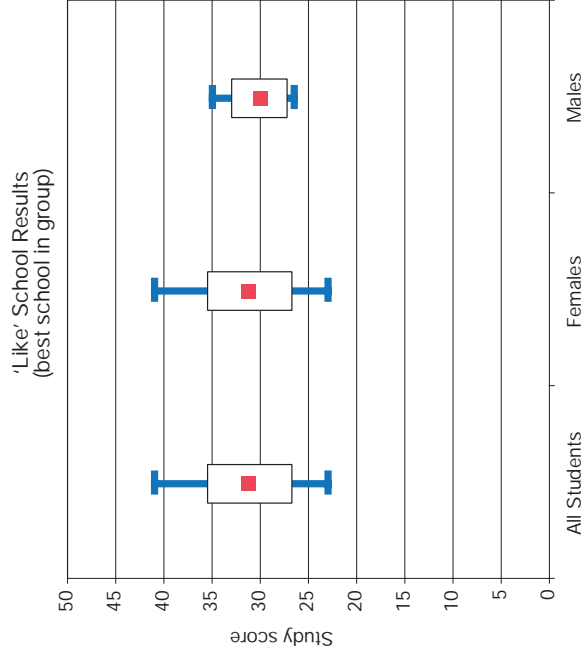
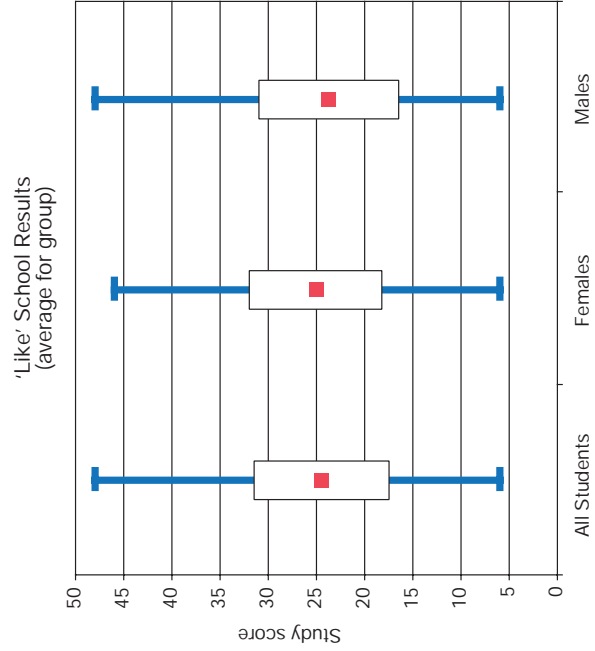
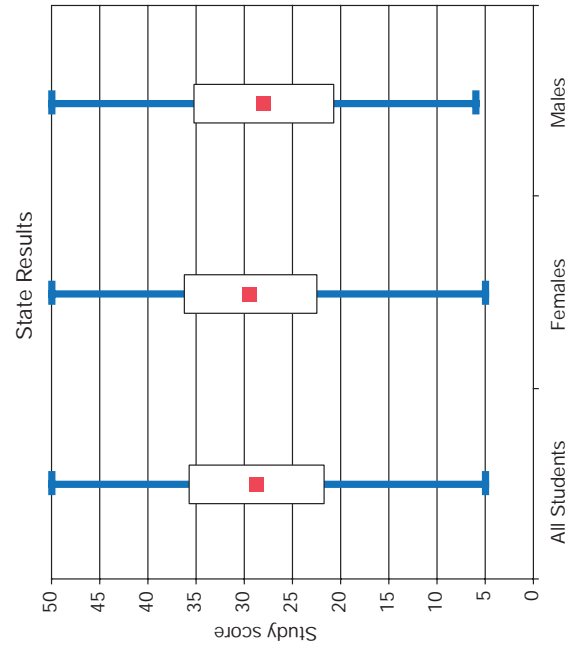
Subject: Further Mathematics

'Like' school group: 9 – Medium to high proportions of LOTE speakers at home/High proportions of EMA or Y. A. recipients

KEY



	No. Students	Maximum	Mean + Std. Deviation	Mean	Mean - Std. Deviation	Minimum
State results	All Students	50	36.1	29.0	21.9	5
	Females	50	36.6	29.7	22.9	5
	Males	50	35.5	28.2	20.9	6
'Like' school results (average for group)	All Students	48	31.7	24.7	17.7	6
	Females	46	32.2	25.3	18.5	6
	Males	48	31.2	24.0	16.8	6
'Like' school results (best school in group)	All Students	41	35.8	31.4	27.1	23
	Females	25	35.8	31.4	27.1	23
	Males	7	33.2	30.3	27.4	27





DISTRIBUTION OF 1999 VCE STUDY SCORES  
BY STUDY AREA

MATHEMATICAL METHODS

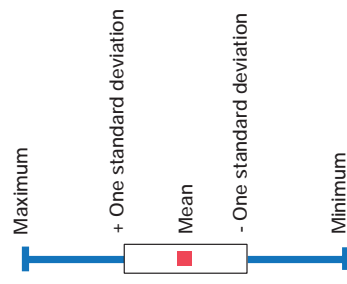
**TABLE 20**

S T U D Y S C O R E D I S T R I B U T I O N W I T H I N T H E S P E C I F I E D S T U D Y

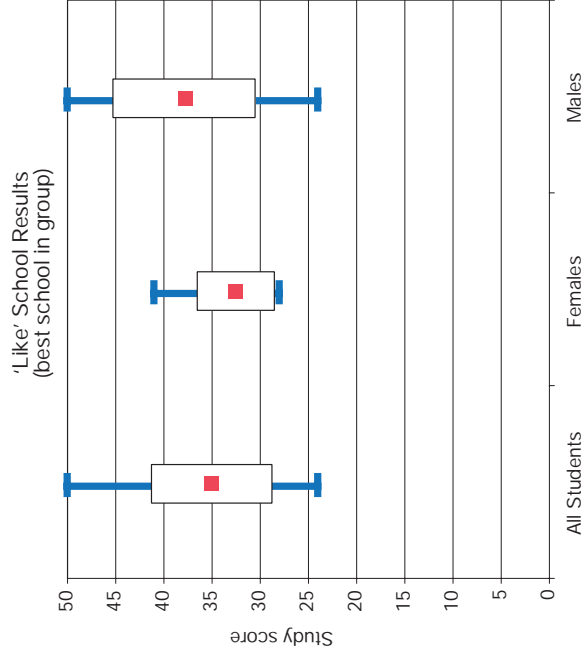
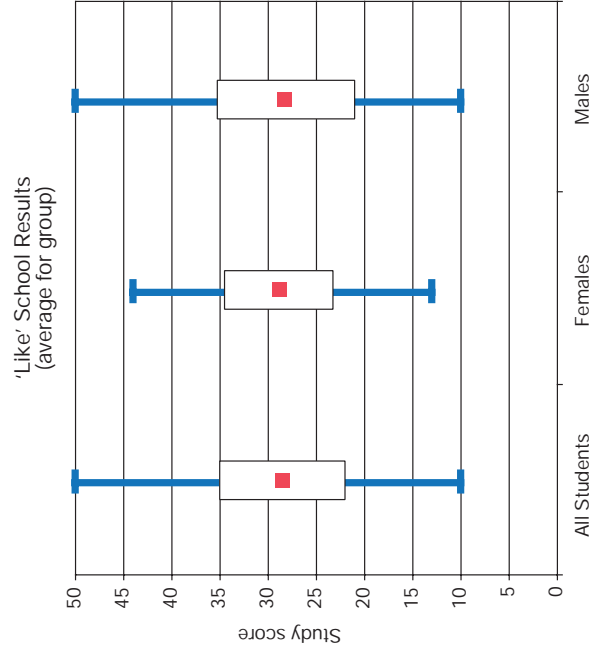
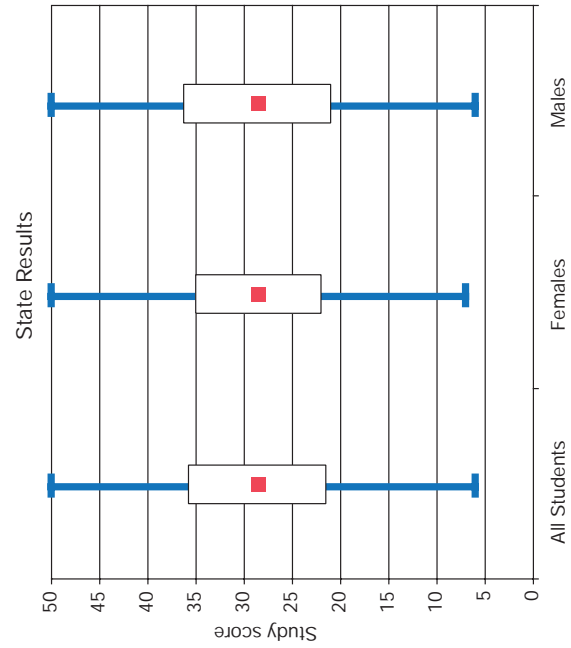
Subject: Mathematical Methods

'Like' school group: 1 – Nil or very low proportions of LOTE speakers at home/Low proportions of EMA or Y. A. recipients

KEY

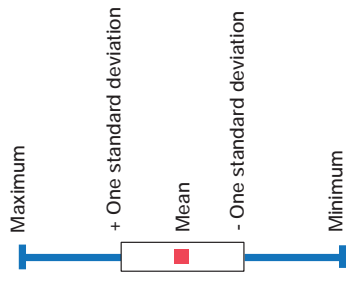


	No. Students	Maximum	Mean + Std. Deviation	Mean	Mean - Std. Deviation	Minimum
State results	All Students	50	35.9	28.8	21.7	6
	Females	50	35.4	28.8	22.2	7
	Males	50	36.4	28.9	21.3	6
'Like' school results (average for group)	All Students	50	35.1	28.7	22.2	10
	Females	44	34.7	29.0	23.4	13
	Males	50	35.5	28.4	21.3	10
'Like' school results (best school in group)	All Students	50	41.6	35.3	29.0	24
	Females	41	36.8	32.8	28.8	28
	Males	50	45.4	38.1	30.8	24

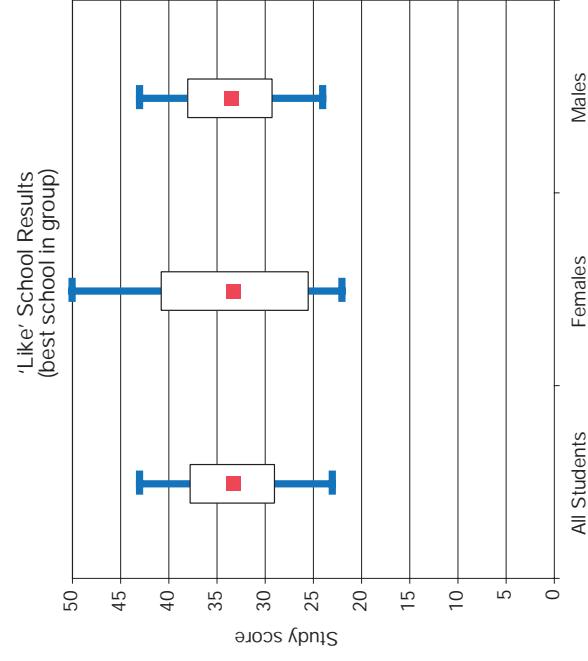
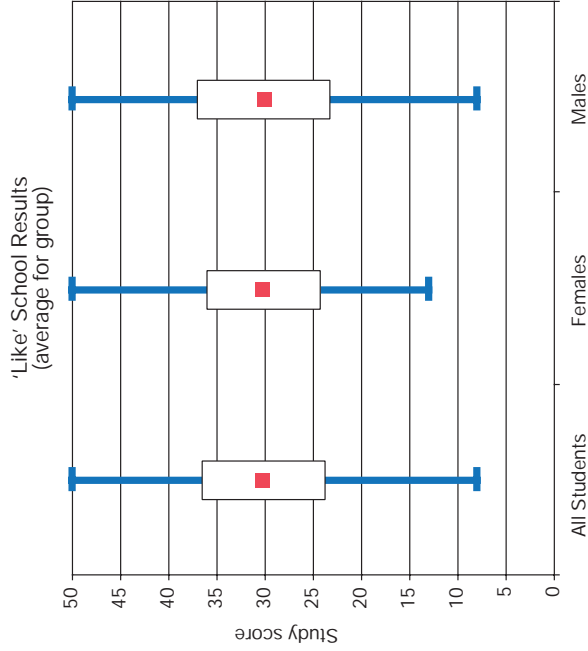
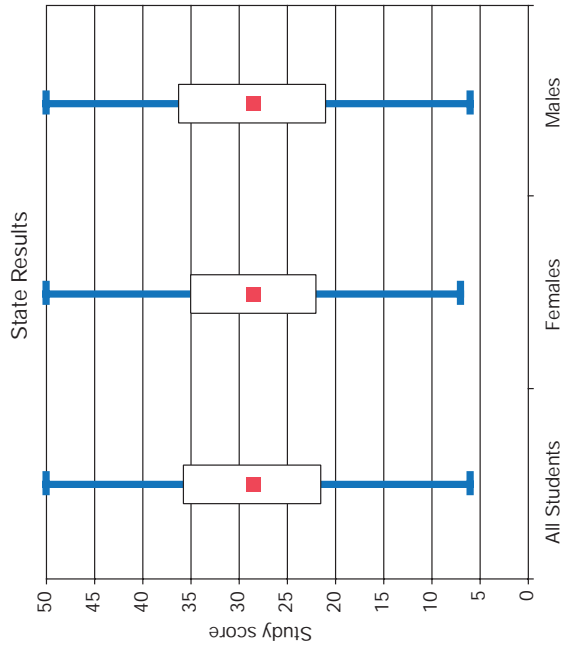


Subject: Mathematical Methods  
 'Like' school group: 2 – Low proportions of LOTE speakers at home/Low proportions of EMA or Y. A. recipients

KEY



	No. Students	Maximum	Mean + Std. Deviation	Mean	Mean - Std. Deviation	Minimum
State results	All Students	50	35.9	28.8	21.7	6
	Females	50	35.4	28.8	22.2	7
	Males	50	36.4	28.9	21.3	6
'Like' school results (average for group)	All Students	50	36.8	30.4	24.0	8
	Females	50	36.4	30.4	24.5	13
	Males	50	37.2	30.3	23.5	8
'Like' school results (best school in group)	All Students	43	38.0	33.6	29.2	23
	Females	17	41.1	33.5	25.8	22
	Males	42	38.2	33.9	29.5	24



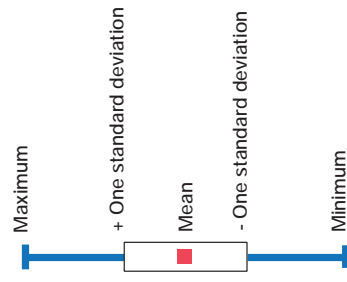
**TABLE 22**

S T U D Y S C O R E D I S T R I B U T I O N W I T H I N T H E S P E C I F I E D S T U D Y

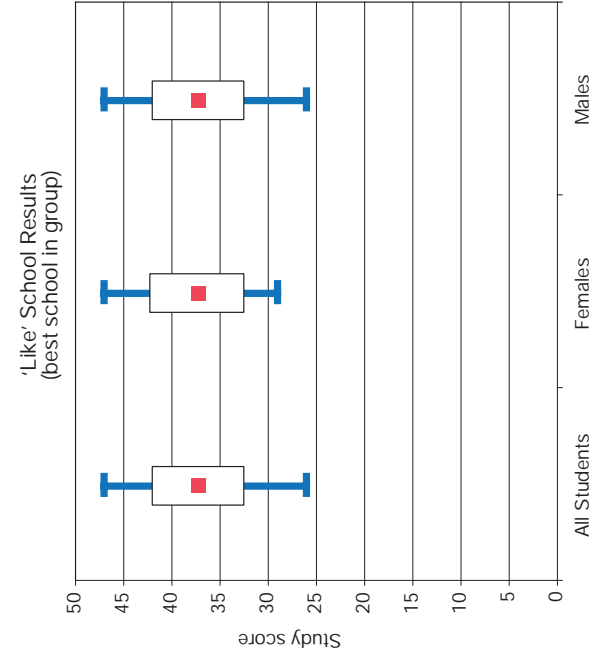
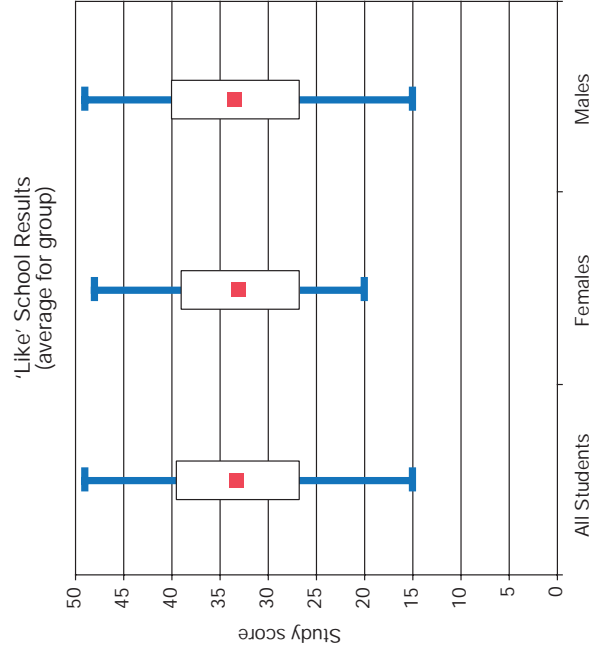
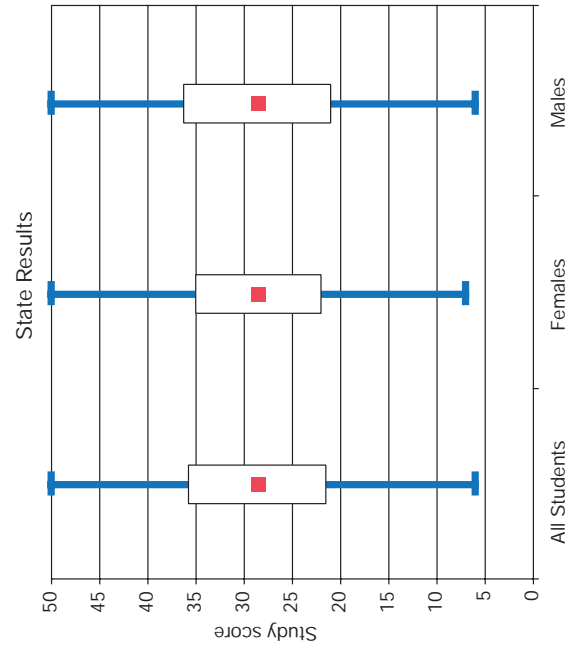
Subject: Mathematical Methods

'Like' school group: 3 – Medium to high proportions of LOTE speakers at home/Low proportions of EMA or Y. A. recipients

KEY



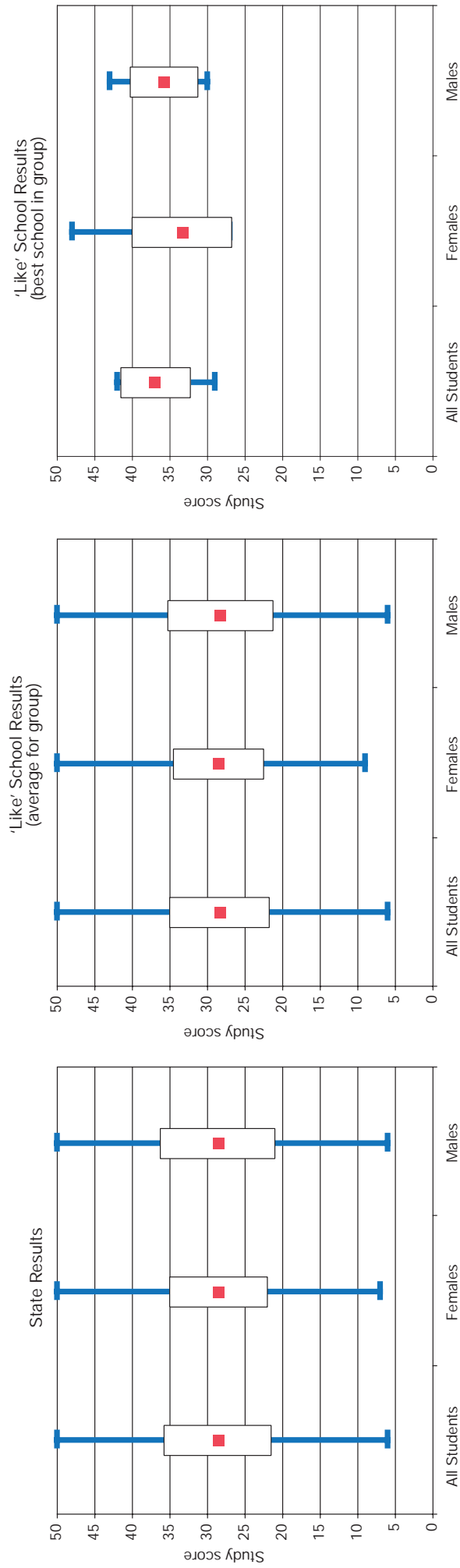
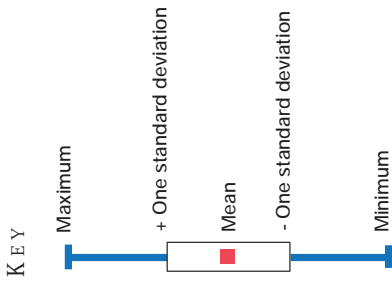
	No. Students	Maximum	Mean + Std. Deviation	Mean	Mean - Std. Deviation	Minimum
State results	All Students	50	35.9	28.8	21.7	6
	Females	50	35.4	28.8	22.2	7
	Males	50	36.4	28.9	21.3	6
'Like' school results (average for group)	All Students	49	39.8	33.5	27.1	15
	Females	48	39.3	33.2	27.0	20
	Males	49	40.2	33.7	27.1	15
'Like' school results (best school in group)	All Students	47	42.2	37.5	32.8	26
	Females	47	42.4	37.6	32.8	29
	Males	47	42.1	37.5	32.8	26



**TABLE 23** STUDY SCORE DISTRIBUTION WITHIN THE SPECIFIED STUDY

Subject: Mathematical Methods  
 'Like' school group: 4 – Nil or very low proportions of LOTE speakers at home/Medium proportions of EMA or Y. A. recipients

State results	No. Students		Maximum	Mean + Std. Deviation	Mean	Mean - Std. Deviation	Minimum
	All Students	Females					
'Like' school results (average for group)	All Students	8,511	50	35.9	28.8	21.7	6
	Females	3,976	50	35.4	28.8	22.2	7
'Like' school results (best school in group)	All Students	4,535	50	36.4	28.9	21.3	6
	Females	1,794	50	35.2	28.6	22.0	6
'Like' school results (best school in group)	All Students	865	50	34.8	28.8	22.7	9
	Females	929	50	35.5	28.5	21.4	6
'Like' school results (best school in group)	All Students	6	42	41.9	37.2	32.5	29
	Females	8	48	40.2	33.6	27.0	27
	All Students	8	43	40.4	36.0	31.6	30



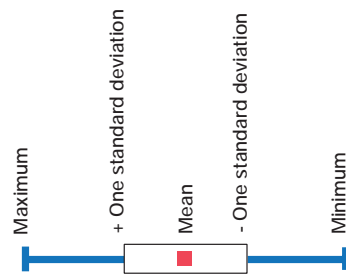
**TABLE 24**

S T U D Y S C O R E D I S T R I B U T I O N W I T H I N T H E S P E C I F I E D S T U D Y

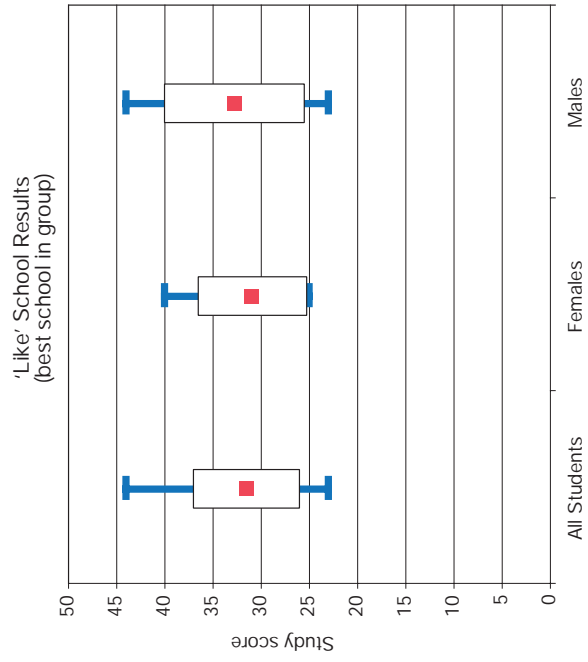
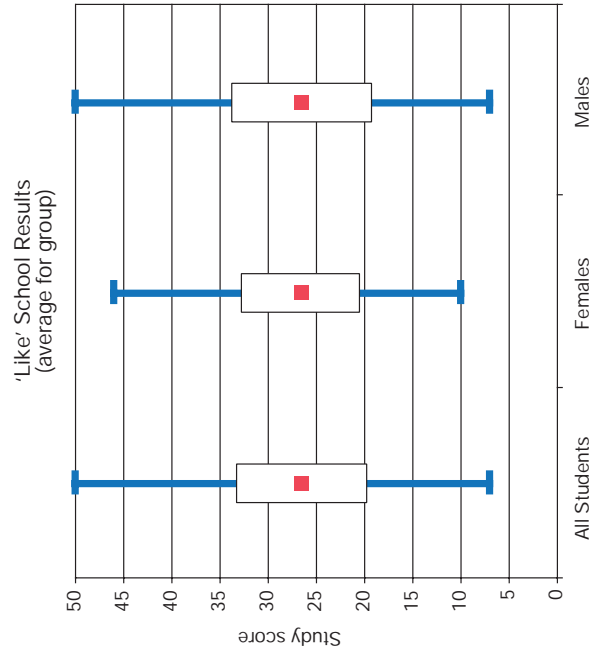
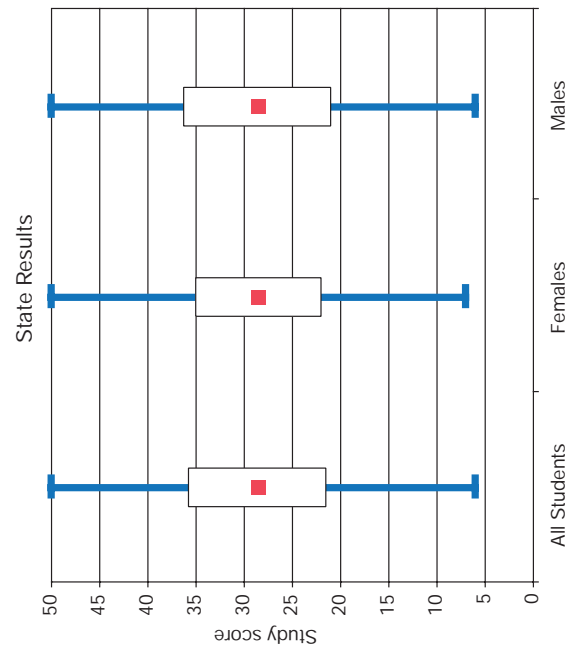
Subject: Mathematical Methods

'Like' school group: 5 – Low proportions of LOTE speakers at home/Medium proportions of EMA or Y. A. recipients

KEY



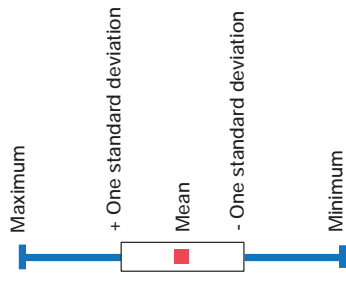
	No. Students	Maximum	Mean + Std. Deviation	Mean	Mean - Std. Deviation	Minimum
State results	All Students	50	35.9	28.8	21.7	6
	Females	50	35.4	28.8	22.2	7
	Males	50	36.4	28.9	21.3	6
'Like' school results (average for group)	All Students	50	33.5	26.7	20.0	7
	Females	46	32.9	26.8	20.6	10
	Males	50	33.9	26.7	19.5	7
'Like' school results (best school in group)	All Students	44	37.3	31.7	26.1	23
	Females	7	36.8	31.1	25.4	25
	Males	7	40.2	33.0	25.8	23



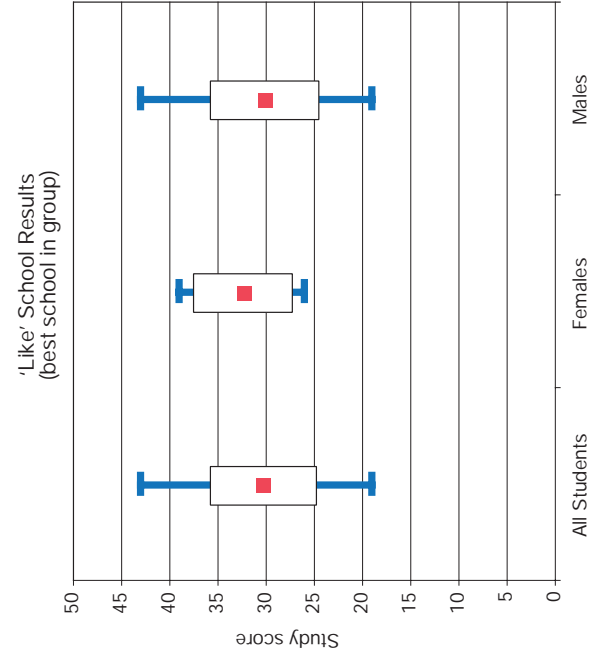
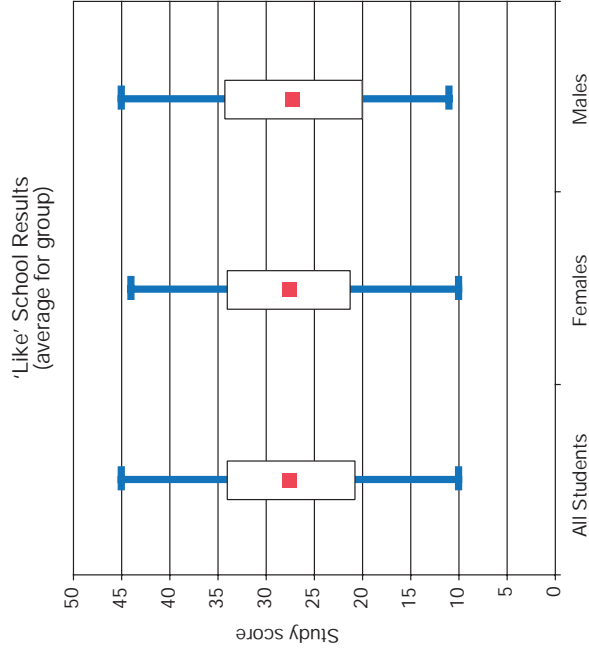
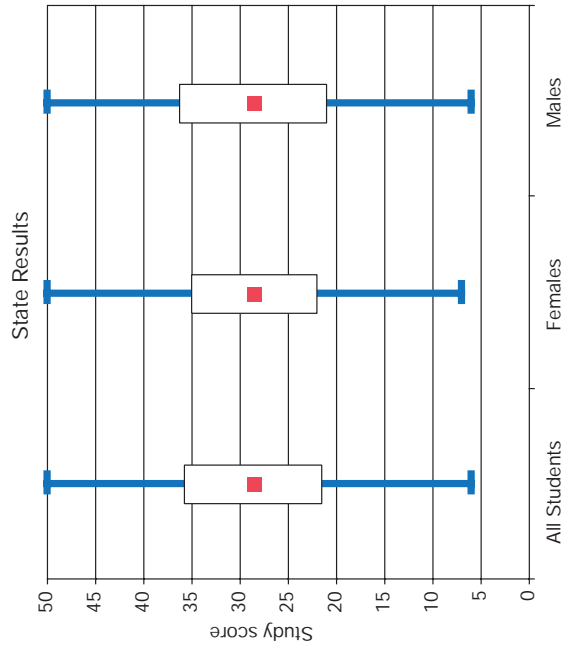
**TABLE 25** STUDY SCORE DISTRIBUTION WITHIN THE SPECIFIED STUDY

Subject: Mathematical Methods  
 'Like' school group: 6 – Medium to high proportions of LOTE speakers at home/Medium proportions of EMA or Y. A. recipients

KEY



	No. Students	Maximum	Mean + Std. Deviation	Mean	Mean - Std. Deviation	Minimum
State results	All Students	50	35.9	28.8	21.7	6
	Females	50	35.4	28.8	22.2	7
	Males	50	36.4	28.9	21.3	6
'Like' school results (average for group)	All Students	45	34.3	27.7	21.0	10
	Females	44	34.2	27.9	21.6	10
	Males	45	34.5	27.4	20.3	11
'Like' school results (best school in group)	All Students	43	36.1	30.6	25.0	19
	Females	39	37.8	32.6	27.4	26
	Males	43	36.0	30.3	24.6	19



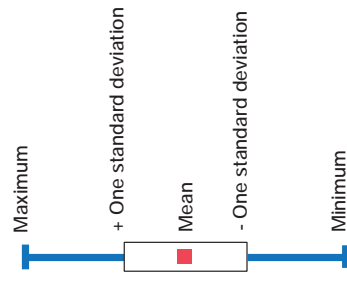
**TABLE 26**

S T U D Y S C O R E D I S T R I B U T I O N W I T H I N T H E S P E C I F I E D S T U D Y

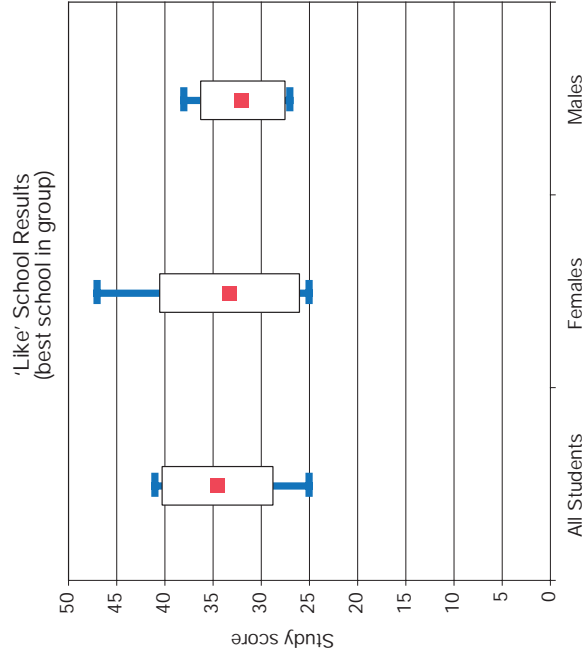
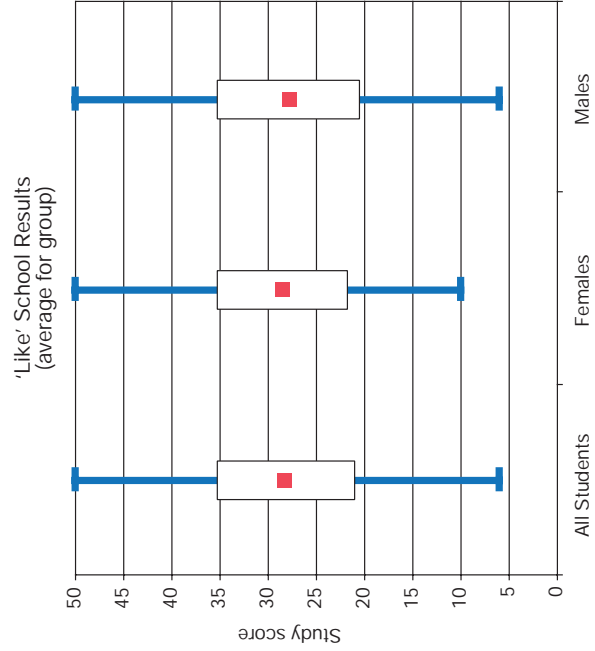
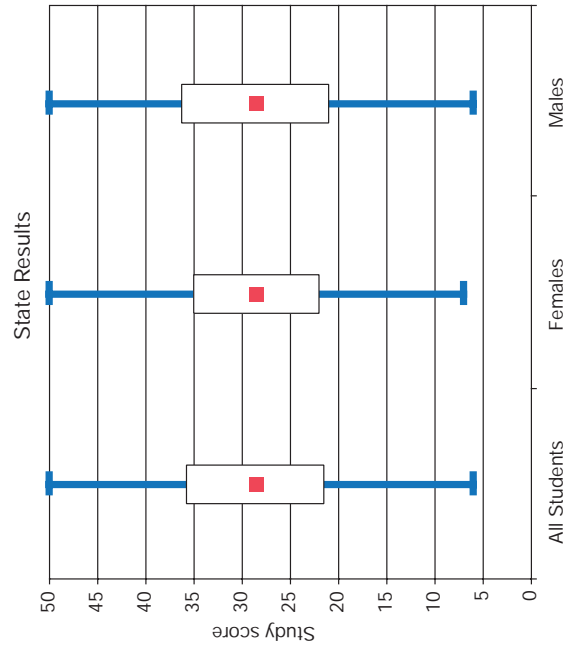
Subject: Mathematical Methods

'Like' school group: 7 – Nil or very low proportions of LOTE speakers at home/High proportions of EMA or Y. A. recipients

KEY



	No. Students	Maximum	Mean + Std. Deviation	Mean	Mean - Std. Deviation	Minimum
State results	All Students	50	35.9	28.8	21.7	6
	Females	50	35.4	28.8	22.2	7
	Males	50	36.4	28.9	21.3	6
'Like' school results (average for group)	All Students	50	35.5	28.4	21.3	6
	Females	50	35.6	28.8	21.9	10
	Males	50	35.4	28.1	20.8	6
'Like' school results (best school in group)	All Students	41	40.6	34.8	28.9	25
	Females	47	40.8	33.6	26.3	25
	Males	6	38	32.2	27.8	27

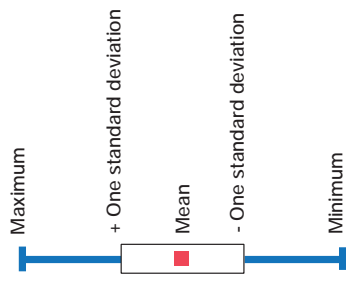


**TABLE 27**

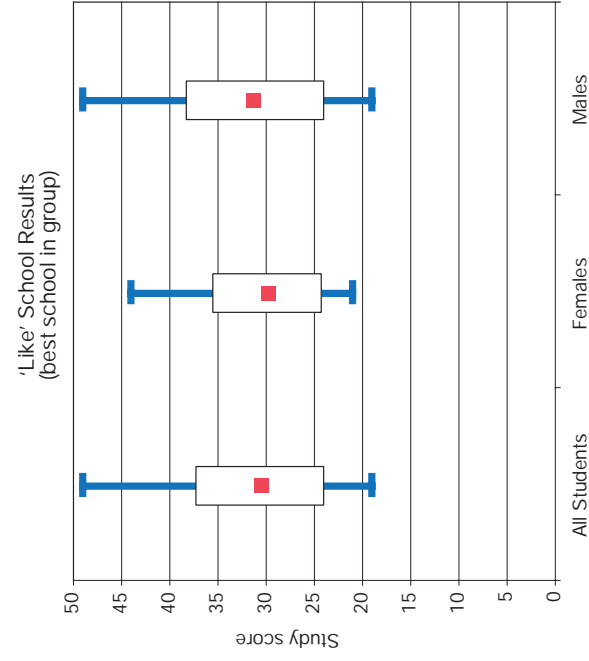
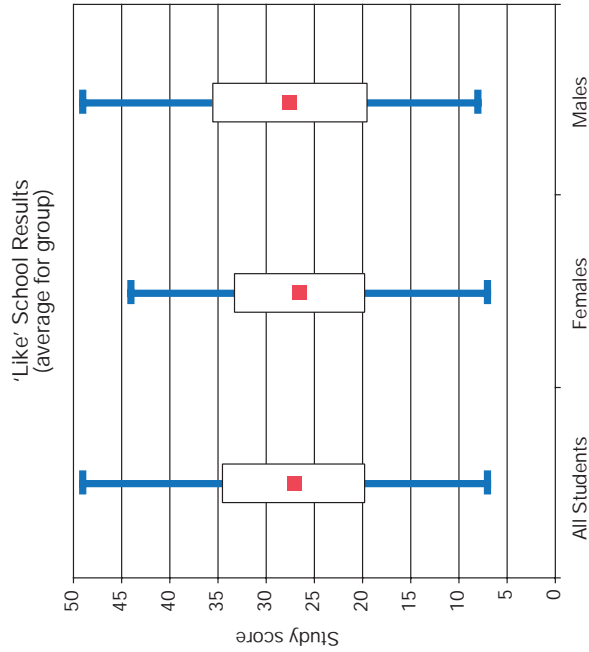
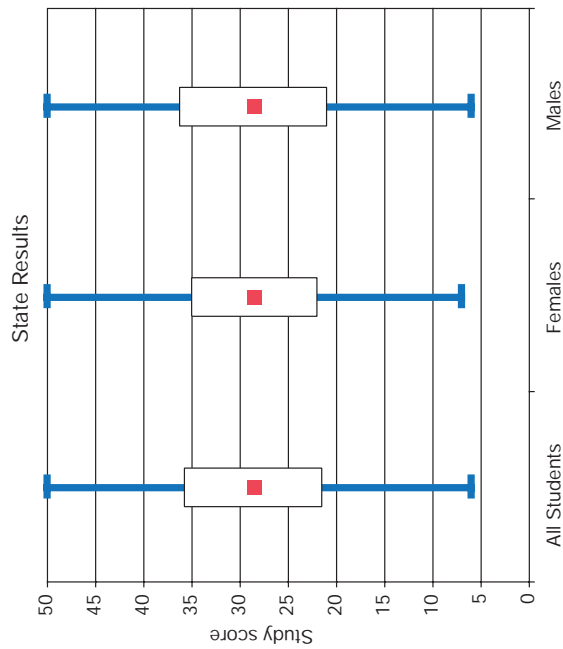
**STUDY SCORE DISTRIBUTION WITHIN THE SPECIFIED STUDY**

Subject: Mathematical Methods  
 'Like' school group: 8 – Low proportions of LOTE speakers at home/High proportions of EMA or Y. A. recipients

KEY



	No. Students	Maximum	Mean + Std. Deviation	Mean	Mean - Std. Deviation	Minimum
State results	All Students	50	35.9	28.8	21.7	6
	Females	50	35.4	28.8	22.2	7
	Males	50	36.4	28.9	21.3	6
'Like' school results (average for group)	All Students	49	34.7	27.3	19.9	7
	Females	44	33.4	26.8	20.1	7
	Males	49	35.6	27.7	19.8	8
'Like' school results (best school in group)	All Students	49	37.4	30.8	24.2	19
	Females	44	35.7	30.1	24.4	21
	Males	49	38.6	31.4	24.2	19



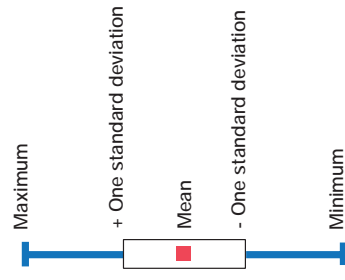
**TABLE 28**

S T U D Y S C O R E D I S T R I B U T I O N W I T H I N T H E S P E C I F I E D S T U D Y

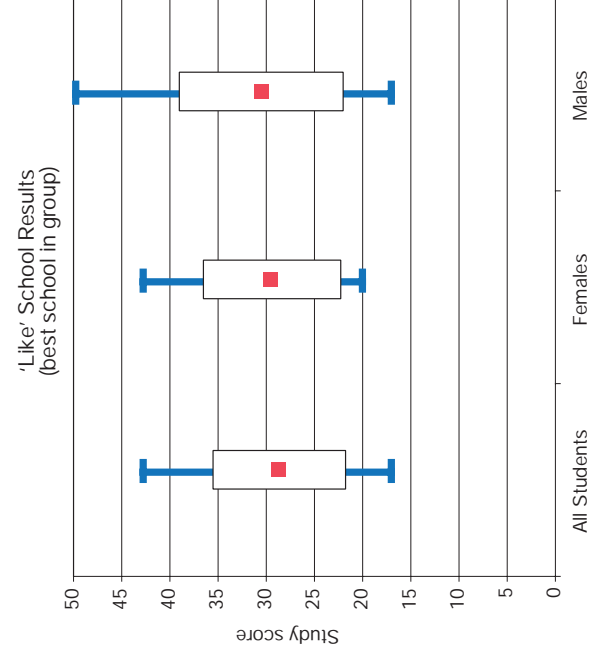
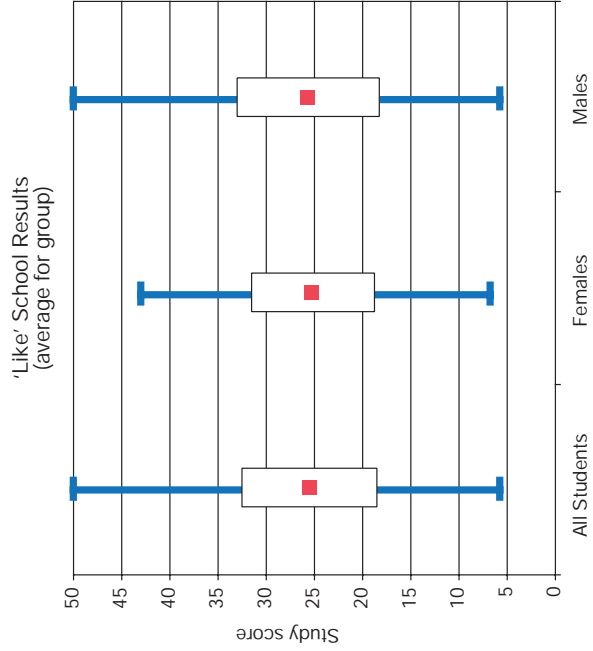
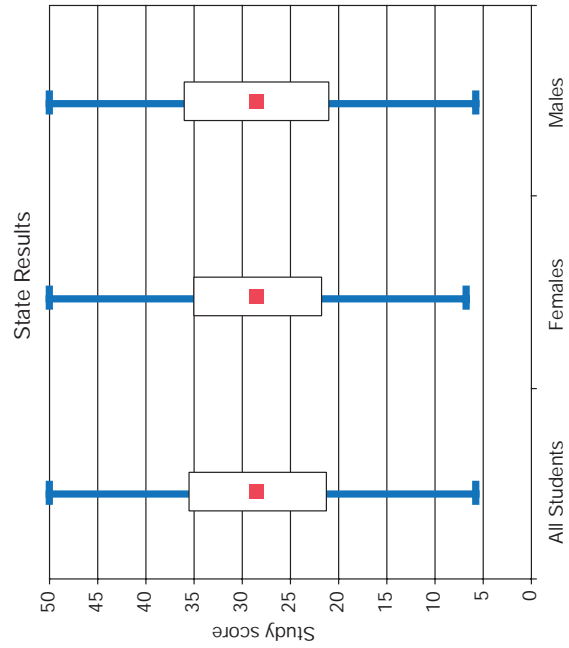
Subject: Mathematical Methods

'Like' school group: 9 – Medium to high proportions of LOTE speakers at home/High proportions of EMA or Y. A. recipients

KEY



	All Students	No. Students	Maximum	Mean + Std. Deviation	Mean	Mean - Std. Deviation	Minimum
State results	All Students	8,511	50	35.9	28.8	21.7	6
	Females	3,976	50	35.4	28.8	22.2	7
	Males	4,535	50	36.4	28.9	21.3	6
'Like' school results (average for group)	All Students	1,248	50	32.8	25.8	18.8	6
	Females	583	43	32.0	25.5	19.1	7
	Males	665	50	33.4	26.0	18.6	6
'Like' school results (best school in group)	All Students	60	43	35.9	29.1	22.2	17
	Females	18	43	36.8	29.8	22.7	20
	Males	38	50	39.4	30.8	22.3	17





HIGHEST, AVERAGE AND LOWEST PERFORMING  
SCHOOLS IN EACH 'LIKE' SCHOOL GROUP

**TABLE 29** ALL 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	32.0	32.9	34.8		34.7	29.9	30.8	33.0	29.8	28.9
Average for group	29.2	30.3	33.2	36.7	29.0	27.7	27.3	28.7	27.4	25.9
Lowest school average	26.1	26.5	30.3		24.5	23.4	24.3	18.8	20.8	22.3

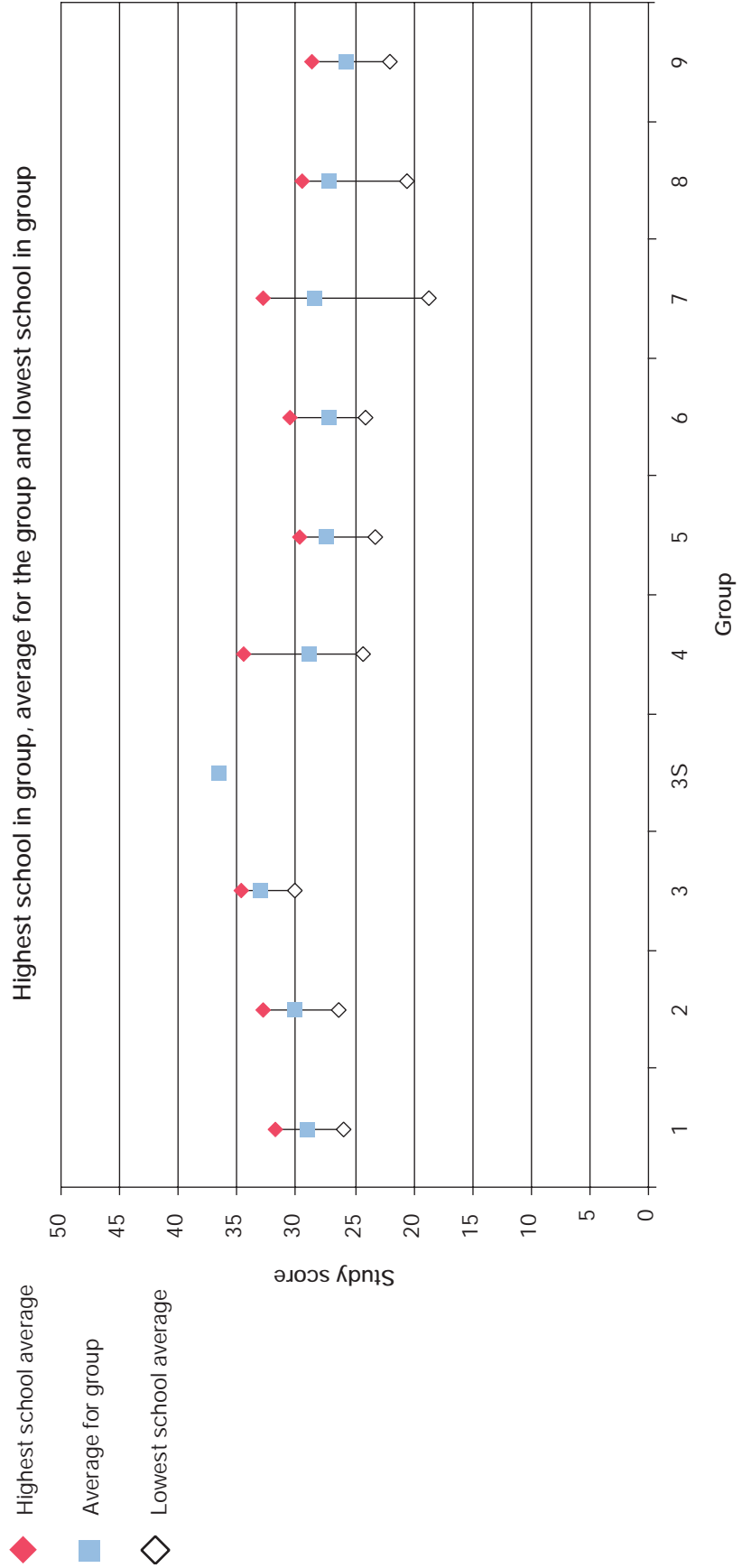


TABLE 30 SELECTED STUDIES STUDY SCORES: HIGHEST, AVERAGE AND LOWEST SCHOOL IN GROUP

Study: English

Group	1	2	3	3S	4	5	6	7	8	9
Highest school average	31.3	33.2	35.6		34.8	32.1	31.7	32.5	29.7	29.3
Average for group	28.6	30.3	34.0	38.3	28.6	27.3	26.9	27.5	26.8	25.7
Lowest school average	23.7	25.7	31.5		24.7	22.2	24.1	22.3	21.5	21.7

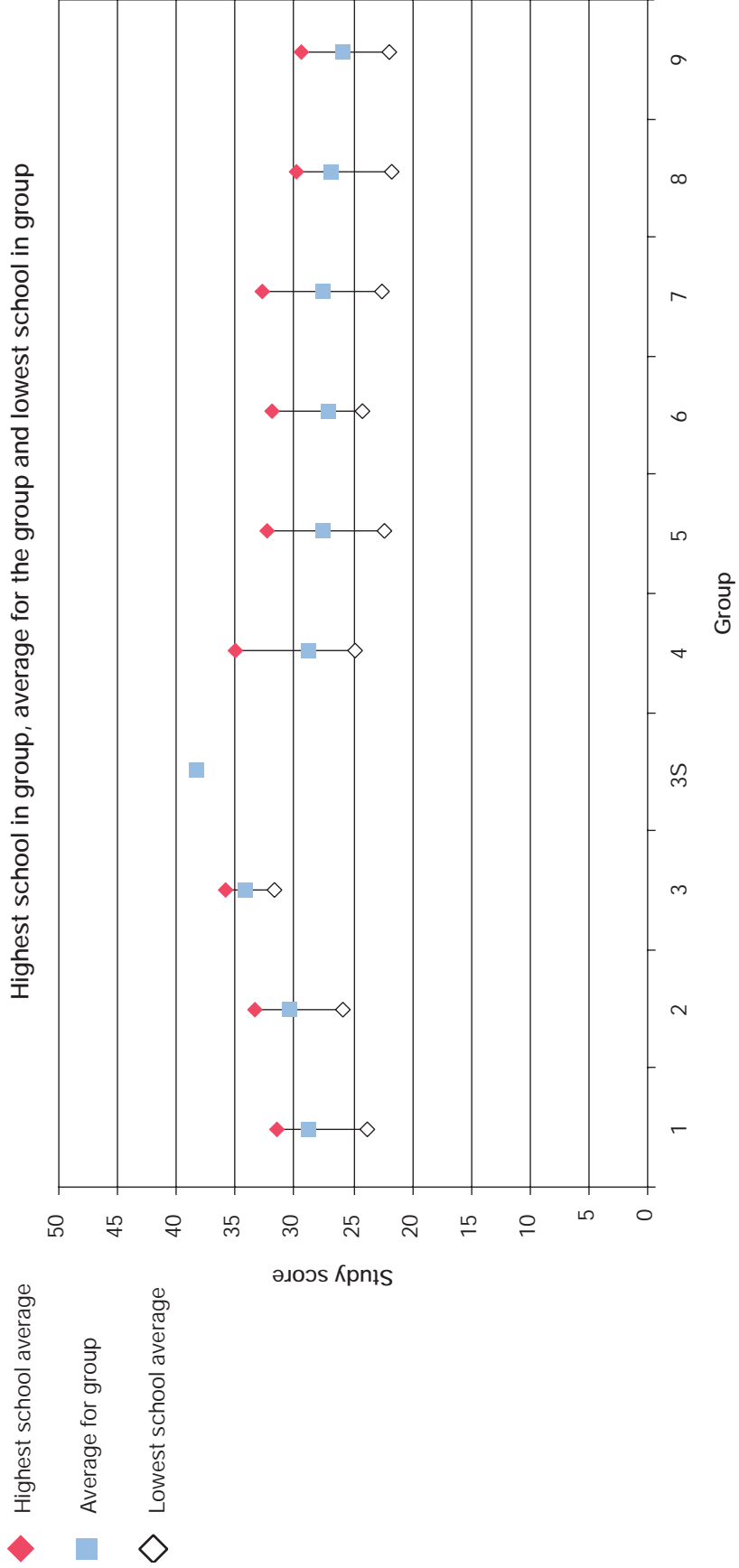


TABLE 31 SELECTED STUDIES STUDY SCORES: HIGHEST, AVERAGE AND LOWEST SCHOOL IN GROUP

Study: Further Mathematics

Group	1	2	3	3S	4	5	6	7	8	9
Highest school average	37.1	37.2	37.1		41.4	34.4	32.7	38.2	31.3	31.4
Average for group	30.2	31.7	32.8	38.9	30.1	28.0	26.6	28.8	28.7	24.7
Lowest school average	24.3	28.4	28.6		22.9	23.1	21.2	23.3	21.8	17.6

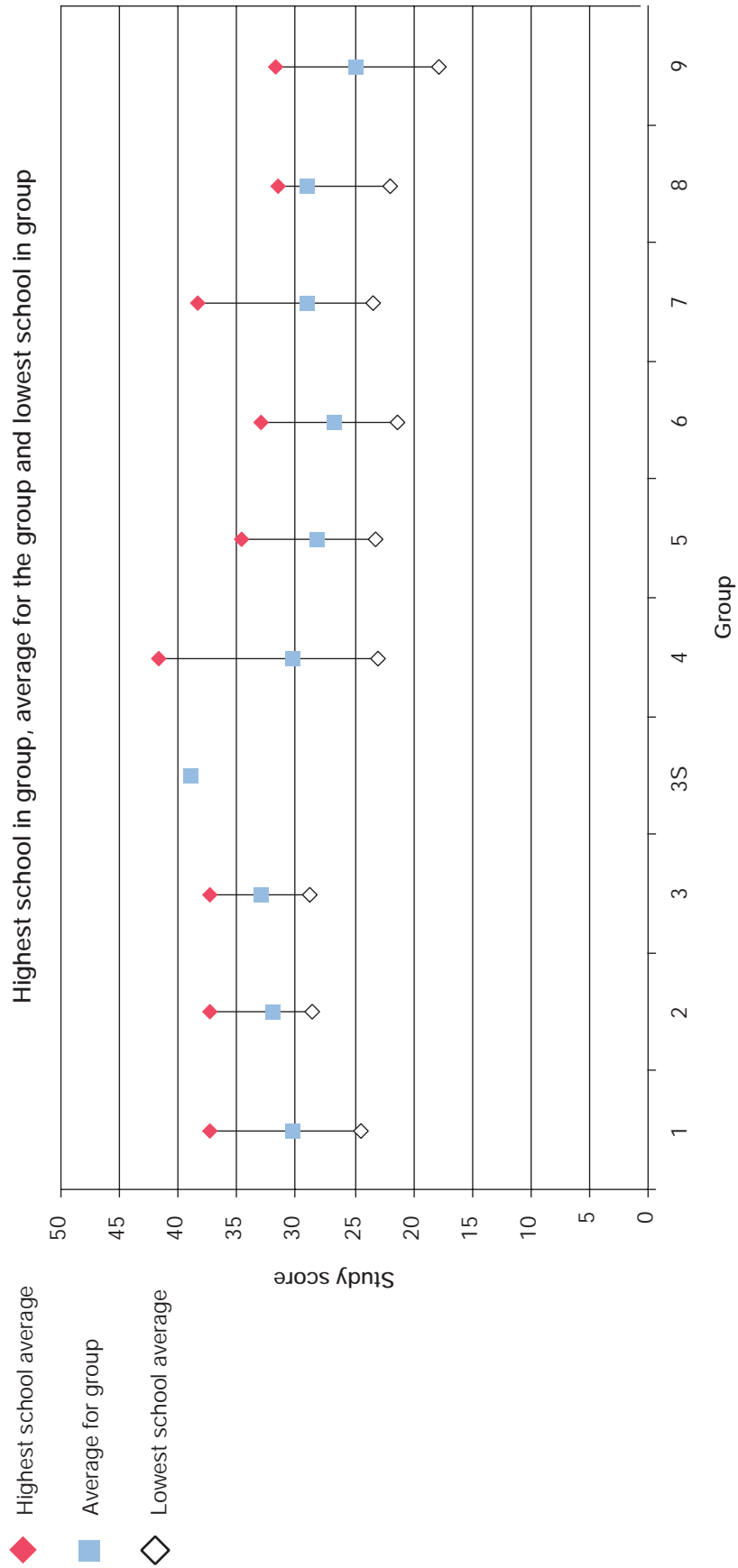
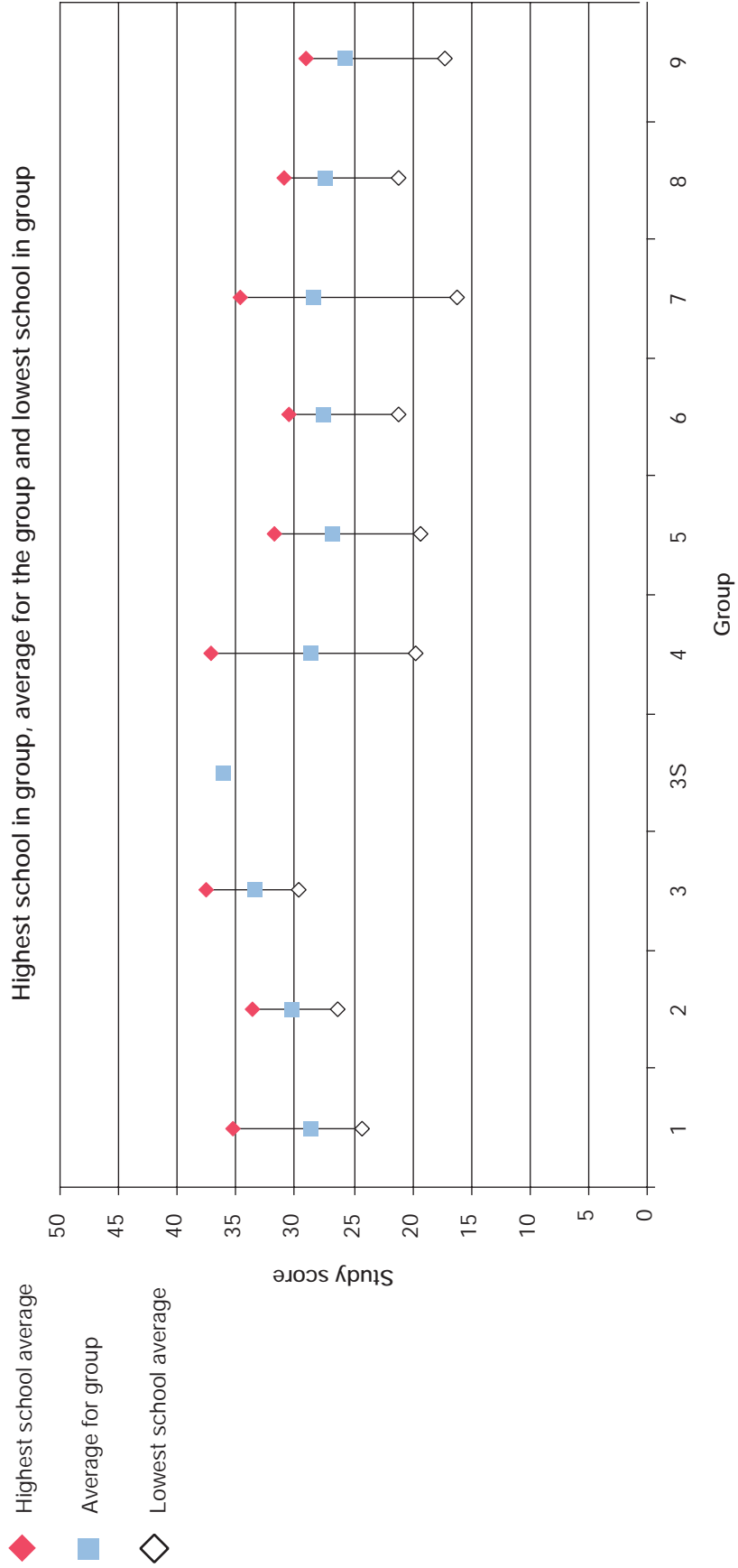


TABLE 3.2 SELECTED STUDIES STUDY SCORES: HIGHEST, AVERAGE AND LOWEST SCHOOL IN GROUP

Study: Mathematical Methods

Group	1	2	3	3S	4	5	6	7	8	9
Highest school average	35.3	33.6	37.5		37.2	31.7	30.6	34.8	30.8	29.1
Average for group	28.7	30.4	33.5	36.2	28.6	26.7	27.7	28.4	27.3	25.8
Lowest school average	24.3	26.3	29.6		19.8	19.2	21.1	16.2	21.2	17.2



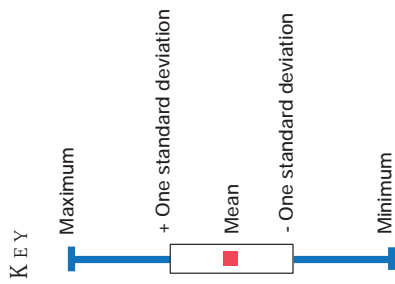
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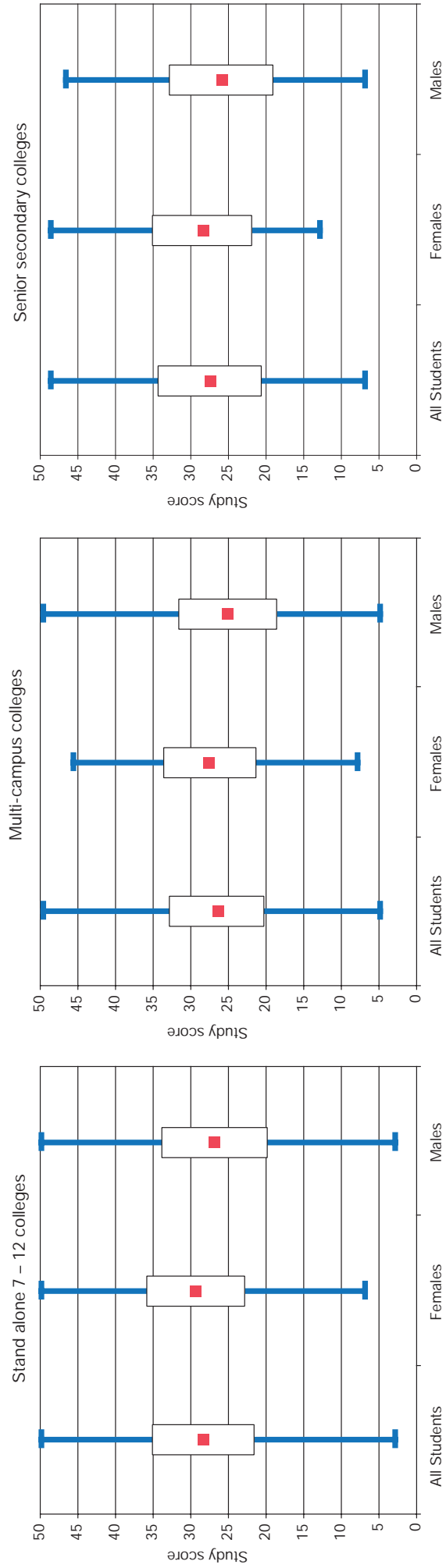
COMPARISON OF STUDY SCORE DISTRIBUTION  
BY SCHOOL TYPE

**TABLE 33** SELECTED STUDIES STUDY SCORES: DISTRIBUTION BY SCHOOL TYPE

Study: English

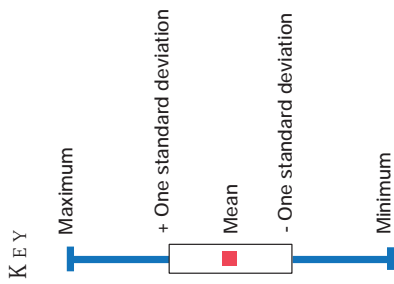


	No. Students	Maximum	Mean + Std. Deviation	Mean	Mean - Std. Deviation	Minimum
Stand alone 7 – 12 colleges	All Students	18,510	35.5	28.7	21.9	3
	Females	10,586	36.3	29.8	23.3	7
	Males	7,924	34.3	27.3	20.3	3
Multi-campus colleges	All Students	4,199	33.4	26.9	20.5	5
	Females	2,261	34.2	28.0	21.9	8
	Males	1,938	32.3	25.6	19.0	5
Senior secondary colleges	All Students	1,420	34.8	27.9	20.9	7
	Females	784	35.8	29.0	22.1	13
	Males	636	47	26.5	19.6	7

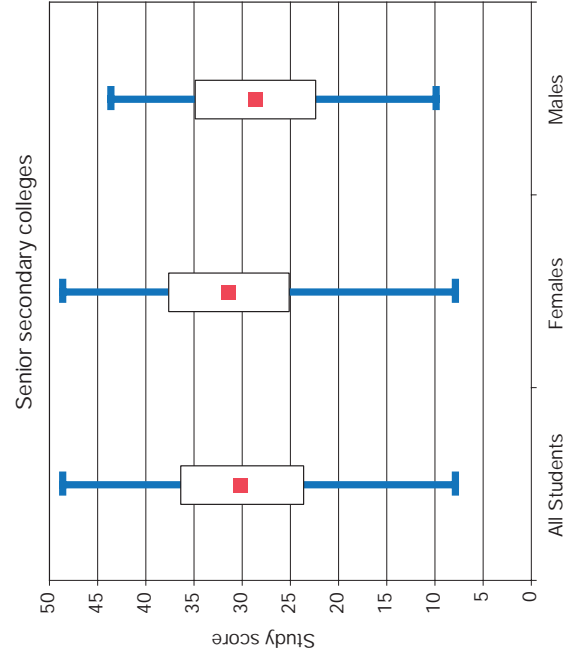
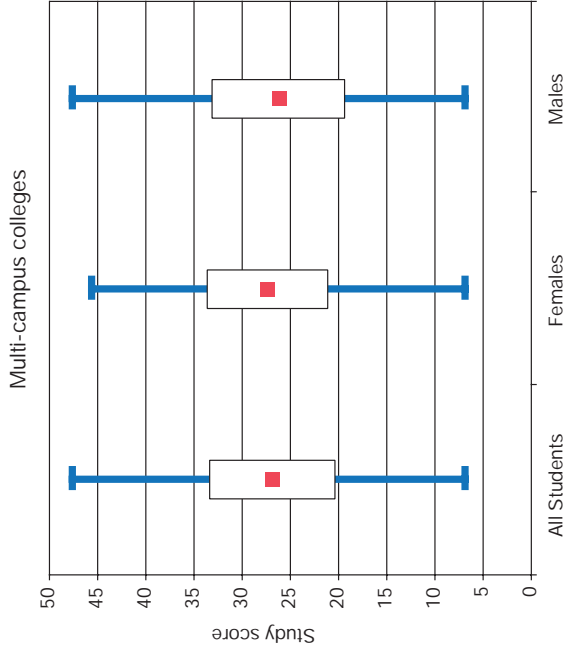
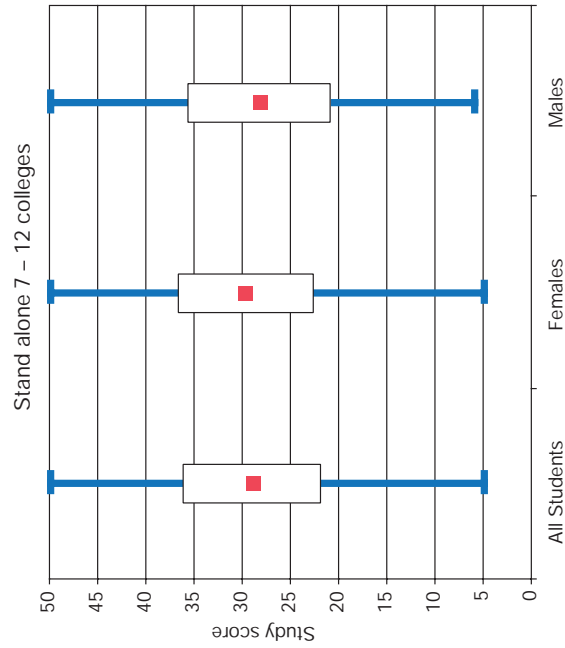


**TABLE 34** SELECTED STUDIES STUDY SCORES: DISTRIBUTION BY SCHOOL TYPE

Study: Further Mathematics

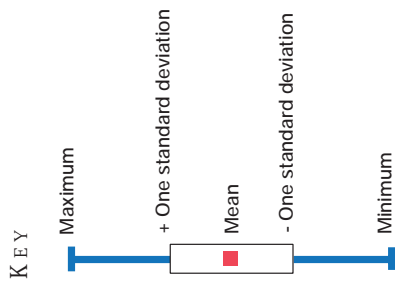


	No. Students	Maximum	Mean + Std. Deviation	Mean	Mean - Std. Deviation	Minimum
Stand alone 7 – 12 colleges	All Students	50	36.5	29.3	22.1	5
	Females	50	36.9	30.0	23.0	5
	Males	50	35.9	28.5	21.1	6
Multi-campus colleges	All Students	48	34.0	27.4	20.8	7
	Females	46	34.2	28.0	21.7	7
	Males	48	33.6	26.8	19.9	7
Senior secondary colleges	All Students	49	37.0	30.6	24.2	8
	Females	49	38.1	31.9	25.6	8
	Males	44	35.3	29.1	22.9	10

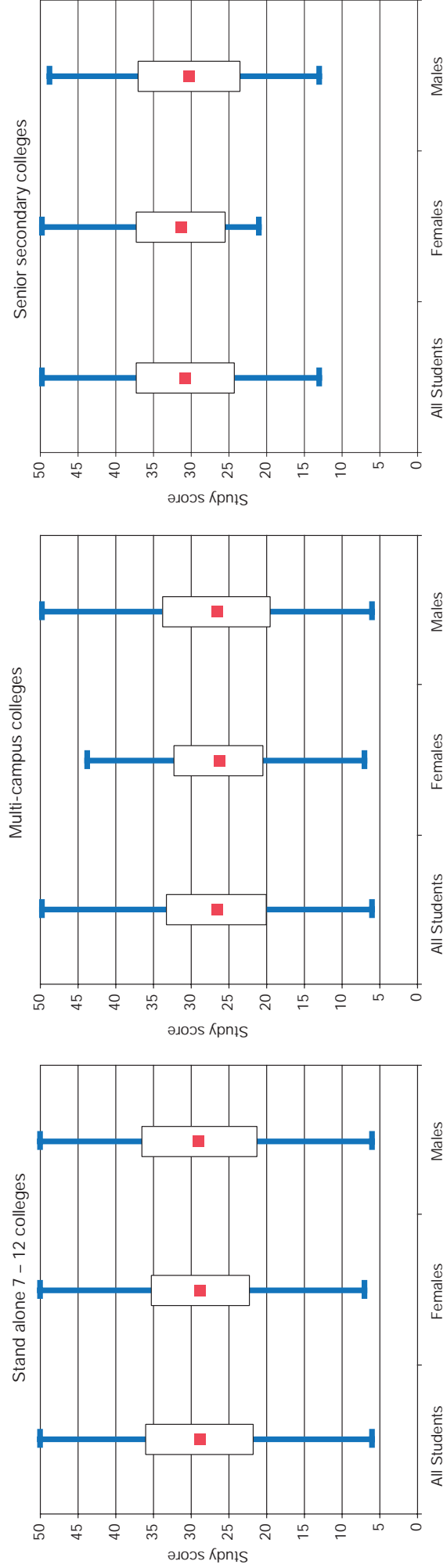


**TABLE 35** SELECTED STUDIES STUDY SCORES: DISTRIBUTION BY SCHOOL TYPE

Study: Mathematical Methods



	No. Students	Maximum	Mean + Std. Deviation	Mean	Mean - Std. Deviation	Minimum
Stand alone 7 – 12 colleges	All Students	7,047	36.2	29.1	22.0	6
	Females	3,386	35.6	29.0	22.4	7
	Males	3,661	36.7	29.2	21.6	6
Multi-campus colleges	All Students	1,191	33.6	26.8	20.0	6
	Females	483	32.8	26.6	20.5	7
	Males	708	34.1	26.9	19.7	6
Senior secondary colleges	All Students	273	37.6	31.1	24.6	13
	Females	107	37.7	31.7	25.6	21
	Males	166	49	30.7	24.0	13





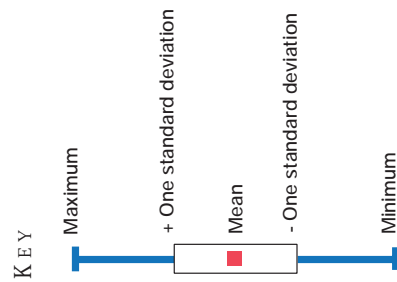
COMPARISON OF STUDY SCORE DISTRIBUTION  
BY LOCATION

**TABLE 36**

SELECTED STUDIES STUDY SCORES: DISTRIBUTION BY LOCATION

Study: English

	No. Students	Maximum	Mean + Std. Deviation	Mean	Mean - Std. Deviation	Minimum
State results (All students)	24,129	50	35.2	28.4	21.6	3
Metropolitan schools	15,372	50	35.4	28.5	21.6	3
Provincial schools	4,684	50	34.7	28.0	21.3	6
Rural schools	4,073	50	34.7	28.3	21.9	5



State results, metropolitan school results, provincial city results (pop. >10,000), and rural school results

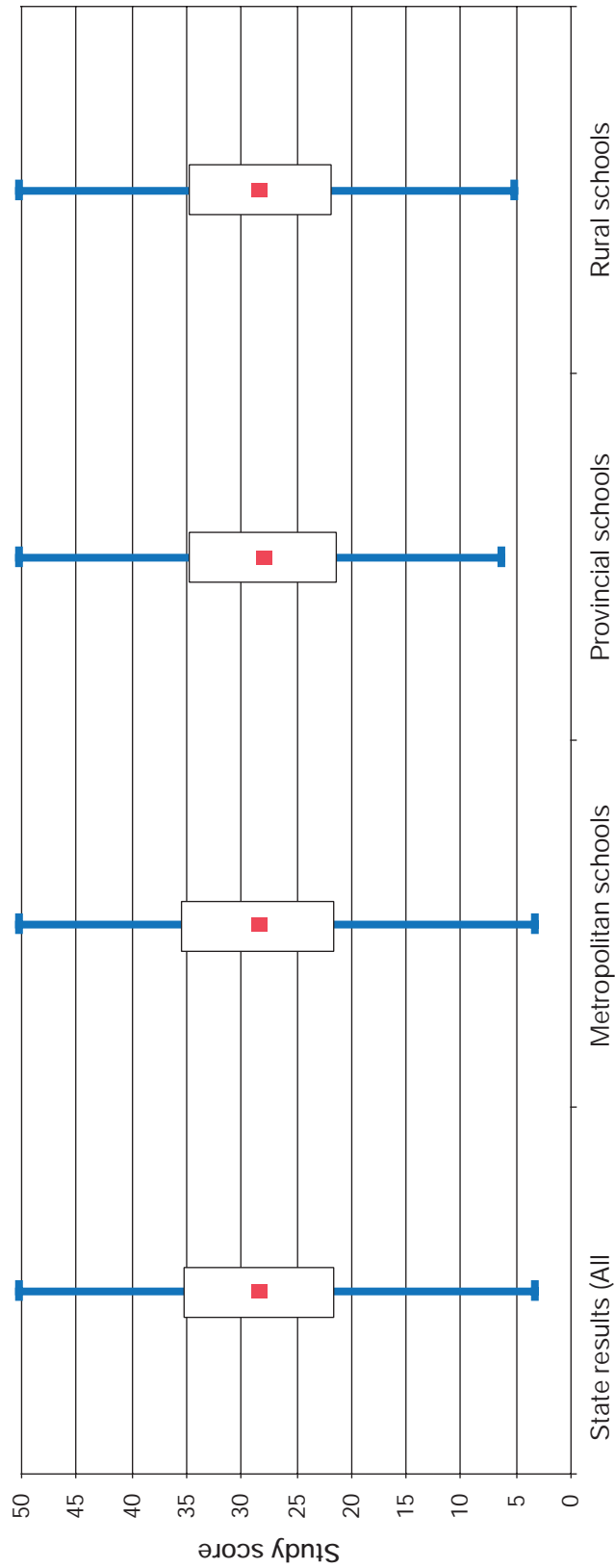
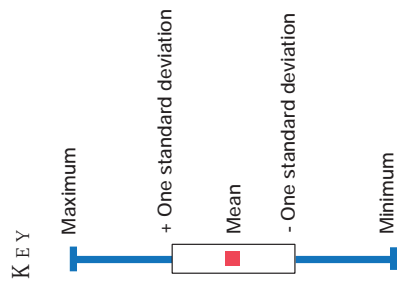


TABLE 37

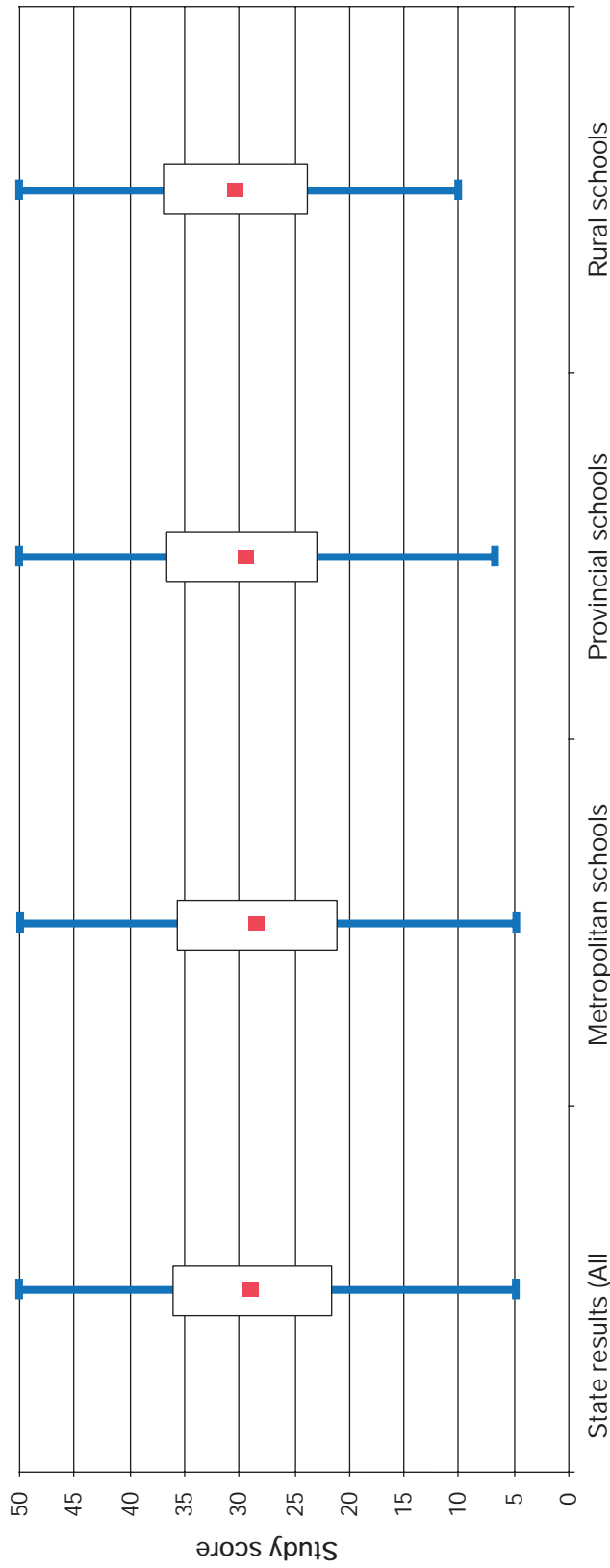
SELECTED STUDIES STUDY SCORES: DISTRIBUTION BY LOCATION

Study: Further Mathematics

	No. Students	Maximum	Mean + Std. Deviation	Mean	Mean - Std. Deviation	Minimum
State results (All students)	8,842	50	36.1	29.0	21.9	5
Metropolitan schools	5,317	50	35.6	28.4	21.3	5
Provincial schools	1,808	50	36.4	29.6	22.8	7
Rural schools	1,717	50	37.1	30.2	23.4	10



State results, metropolitan school results, provincial city results (pop. > 10,000), and rural school results

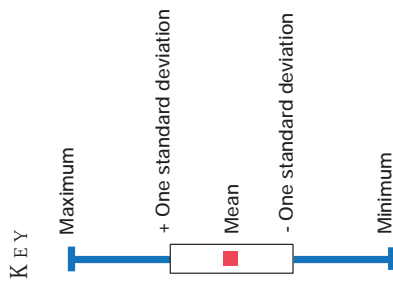


**TABLE 38**

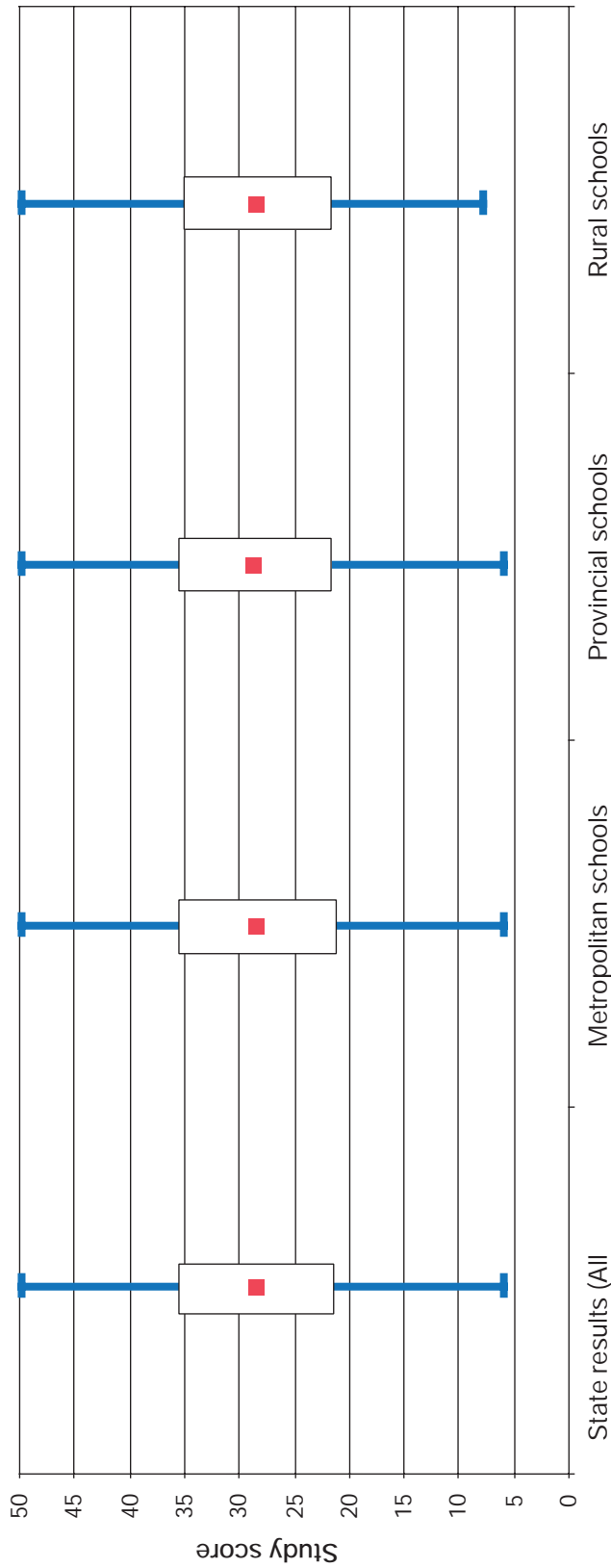
SELECTED STUDIES STUDY SCORES: DISTRIBUTION BY LOCATION

Subject: Mathematical Methods

	No. Students	Maximum	Mean + Std. Deviation	Mean	Mean - Std. Deviation	Minimum
State results (All students)	8,511	50	35.9	28.8	21.7	6
Metropolitan schools	6,090	50	36.0	28.8	21.6	6
Provincial schools	1,281	50	35.9	29.0	22.1	6
Rural schools	1,140	50	35.5	28.8	22.1	8



State results, metropolitan school results, provincial city results (pop. >10,000), and rural school results



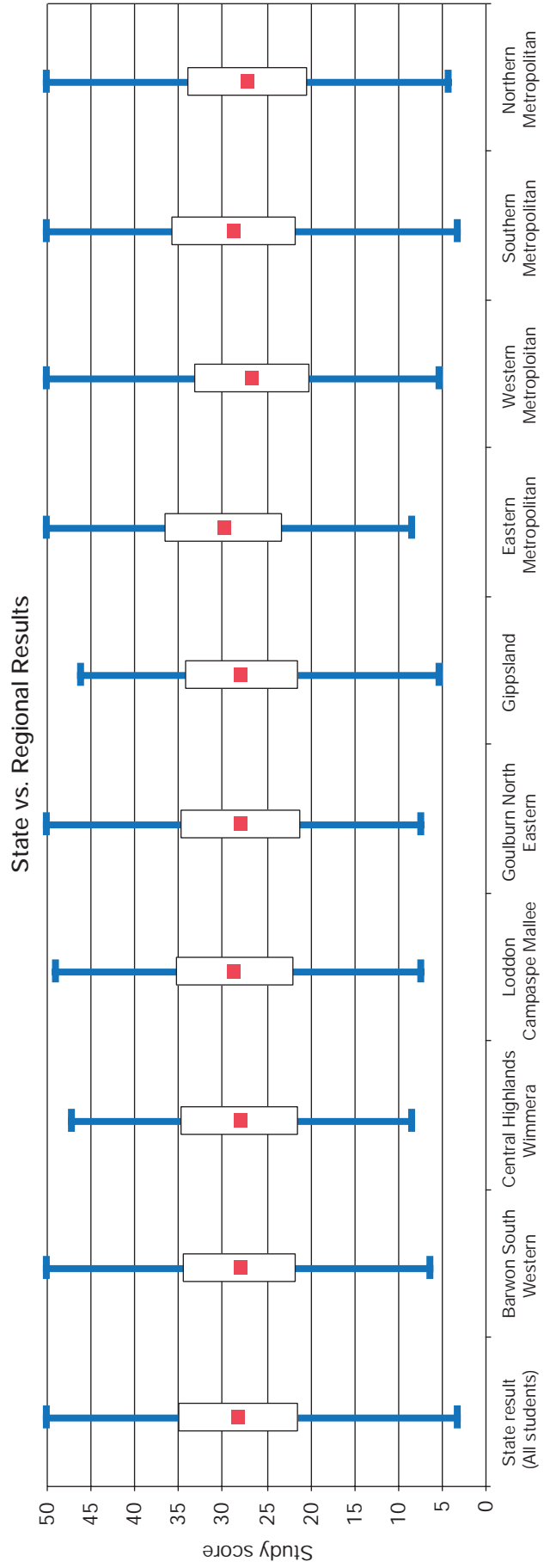
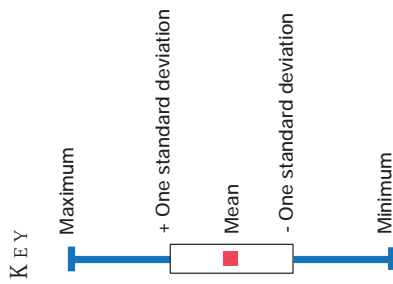


COMPARISON OF STUDY SCORE DISTRIBUTION  
BY REGION

**TABLE 39** SELECTED STUDIES STUDY SCORES: DISTRIBUTION BY REGION

Study: English

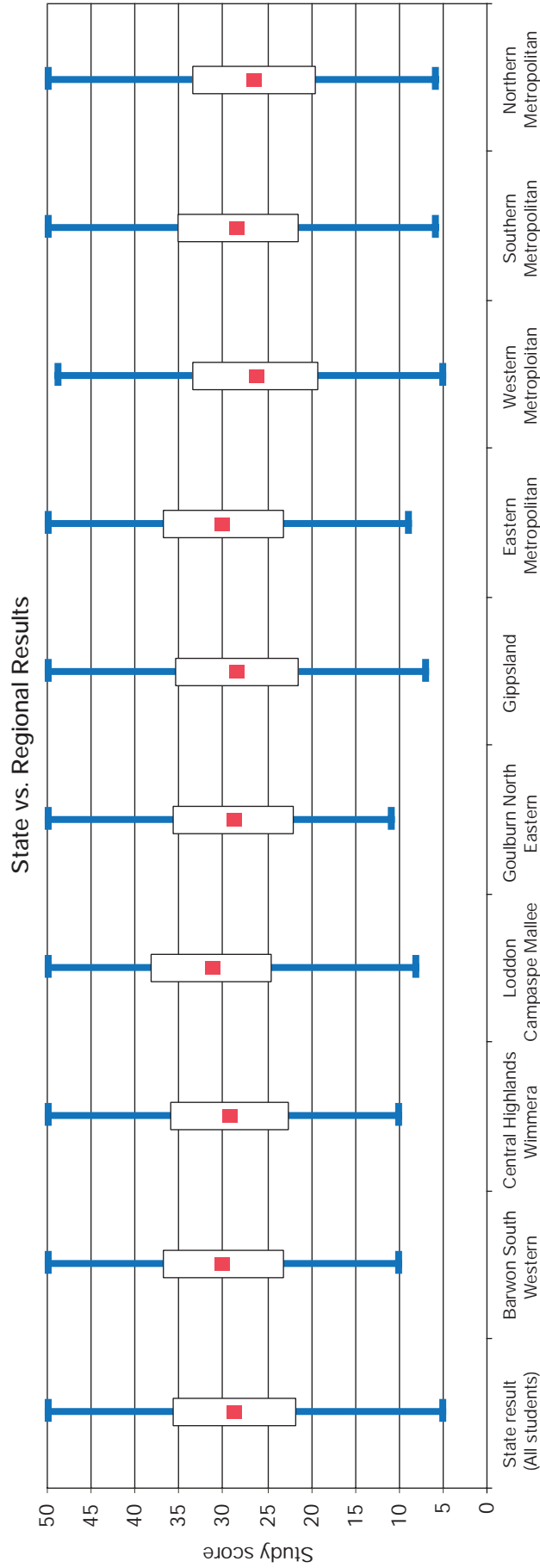
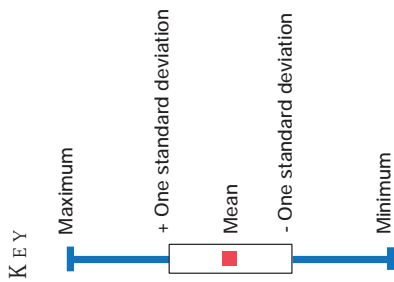
	No. Students	Maximum	Mean + Std. Dev	Mean	Mean - Std. Dev	Minimum
State result (All students)	24,129	50	35.2	28.4	21.6	3
Barwon South Western	1,956	50	34.6	28.1	21.7	6
Central Highlands Wimmera	1,231	47	34.8	28.1	21.5	8
Loddon Campaspe Mallee	1,954	49	35.4	28.7	22.0	7
Goulburn North Eastern	1,635	50	34.7	28.0	21.3	7
Gippsland	1,362	46	34.4	27.9	21.4	5
Eastern Metropolitan	5,209	50	36.5	29.9	23.3	8
Western Metropolitan	2,904	50	33.1	26.6	20.1	5
Southern Metropolitan	4,630	50	35.9	28.8	21.7	3
Northern Metropolitan	3,248	50	34.0	27.2	20.4	4



**TABLE 40** SELECTED STUDIES STUDY SCORES: DISTRIBUTION BY REGION

Study: Further Mathematics

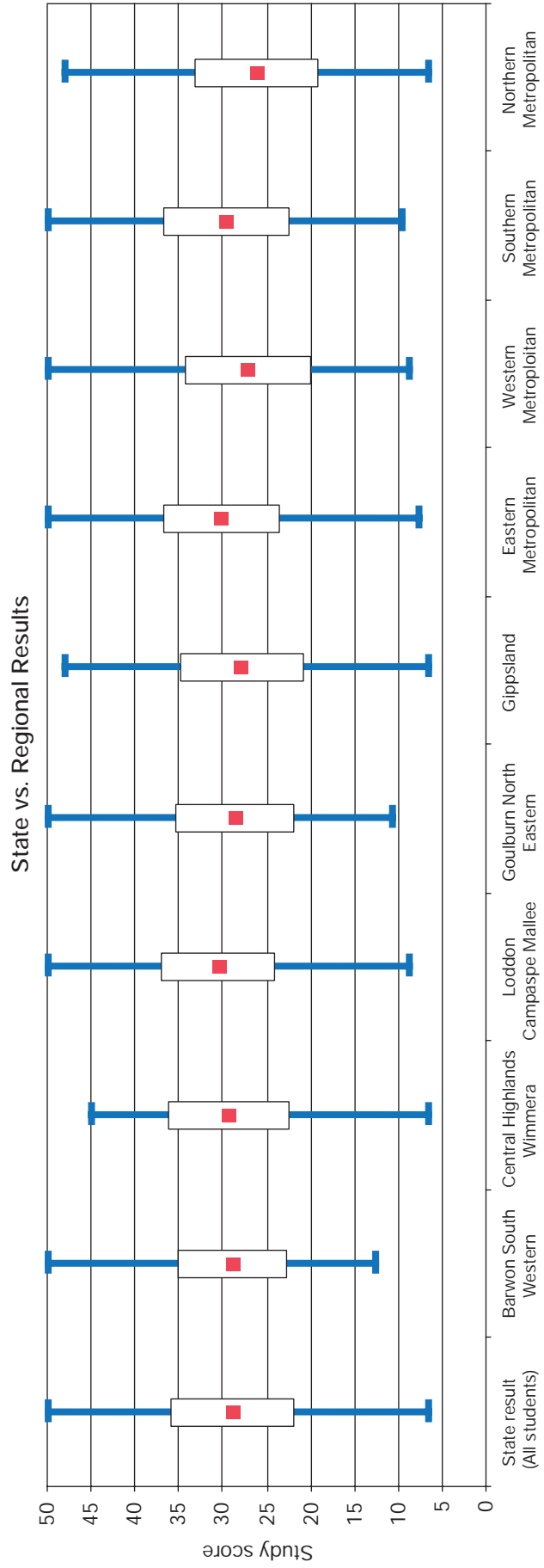
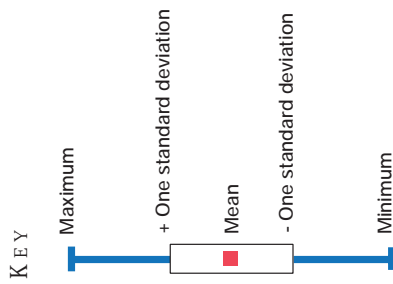
	No. Students	Maximum	Mean + Std. Dev	Mean	Mean - Std. Dev	Minimum
State result (All students)	8,842	50	36.1	29.0	21.9	5
Barwon South Western	756	50	37.1	30.3	23.5	10
Central Highlands Wimmera	471	50	36.3	29.6	22.8	10
Loddon Campaspe Mallee	769	50	38.5	31.7	24.8	8
Goulburn North Eastern	647	50	35.9	29.2	22.4	11
Gippsland	623	50	35.6	28.8	21.9	7
Eastern Metropolitan	1,830	50	37.3	30.3	23.4	9
Western Metropolitan	1,035	49	33.7	26.6	19.4	5
Southern Metropolitan	1,540	50	35.6	28.7	21.9	6
Northern Metropolitan	1,171	50	33.8	26.8	19.7	6



**TABLE 41** SELECTED STUDIES STUDY SCORES: DISTRIBUTION BY REGION

Study: Mathematical Methods

	No. Students	Maximum	Mean + Std. Dev	Mean	Mean - Std. Dev	Minimum
State result (All students)	8,511	50	35.9	28.8	21.7	6
Barwon South Western	542	50	35.2	28.9	22.5	12
Central Highlands Wimmera	324	45	36.3	29.3	22.4	6
Loddon Campaspe Mallee	541	50	37.1	30.5	23.9	8
Goulburn North Eastern	511	50	35.4	28.6	21.7	10
Gippsland	366	48	35.0	27.8	20.7	6
Eastern Metropolitan	2,173	50	36.9	30.2	23.5	7
Western Metropolitan	1,063	50	34.3	27.0	19.7	8
Southern Metropolitan	1,854	50	36.9	29.6	22.4	9
Northern Metropolitan	1,137	48	33.2	26.1	19.0	6



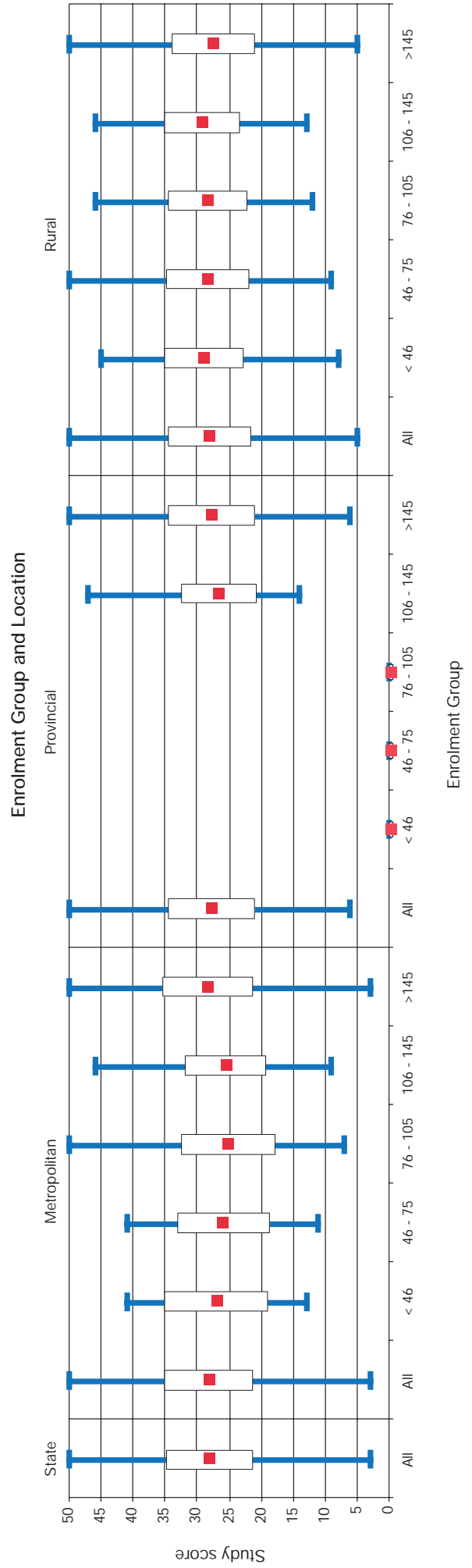
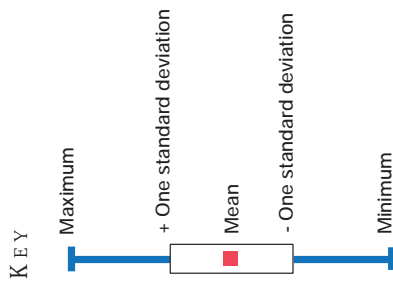


COMPARISON OF STUDY SCORE DISTRIBUTION  
BY VCE COHORT SIZE AND SCHOOL LOCATION

**TABLE 4 2** SELECTED STUDIES STUDY SCORES: DISTRIBUTION BY VCE COHORT SIZE AND SCHOOL LOCATION

Study: English

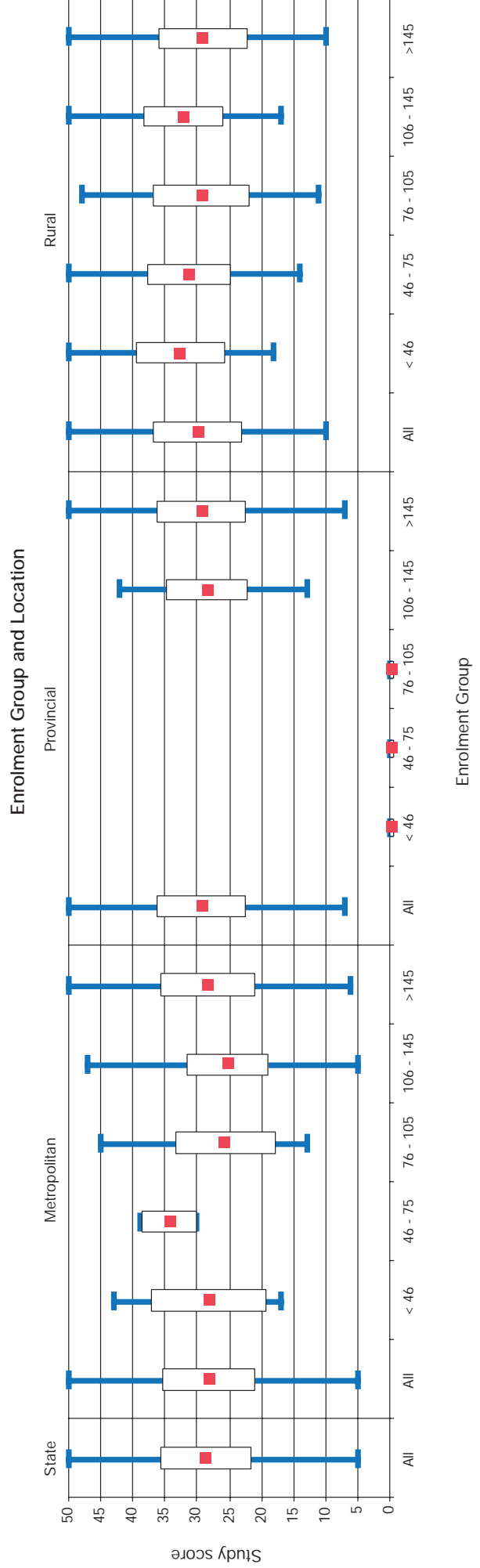
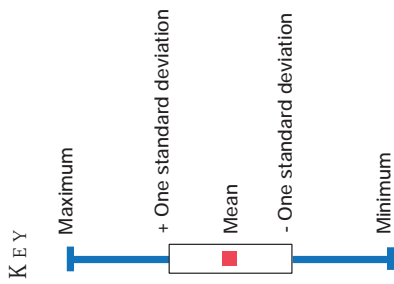
	No. Students	Maximum	Mean + Std. Dev	Mean	Mean - Std. Dev	Minimum
Metropolitan	All	50	35.2	28.4	21.6	3
	All	50	35.4	28.5	21.6	3
	< 46	41	35.3	27.3	19.2	13
	46 - 75	41	33.4	26.2	19.0	11
Provincial	76 - 105	50	32.8	25.6	18.3	7
	106 - 145	46	32.3	25.9	19.4	9
	>145	50	35.6	28.7	21.8	3
	All	4,684	34.7	28.0	21.3	6
Rural	< 46	0	0.0	0.0	0.0	0
	46 - 75	0	0.0	0.0	0.0	0
	76 - 105	0	0.0	0.0	0.0	0
	106 - 145	169	47	32.8	20.9	14
Rural	>145	50	34.8	28.0	21.3	6
	All	4,073	34.7	28.3	21.9	5
	< 46	273	35.4	29.2	23.0	8
	46 - 75	458	35.0	28.7	22.3	9
Rural	76 - 105	46	34.9	28.7	22.5	12
	106 - 145	478	35.3	29.5	23.6	13
	>145	50	34.3	27.8	21.3	5



**TABLE 4.3** SELECTED STUDIES STUDY SCORES: DISTRIBUTION BY VCE COHORT SIZE AND SCHOOL LOCATION

Study: Further Mathematics

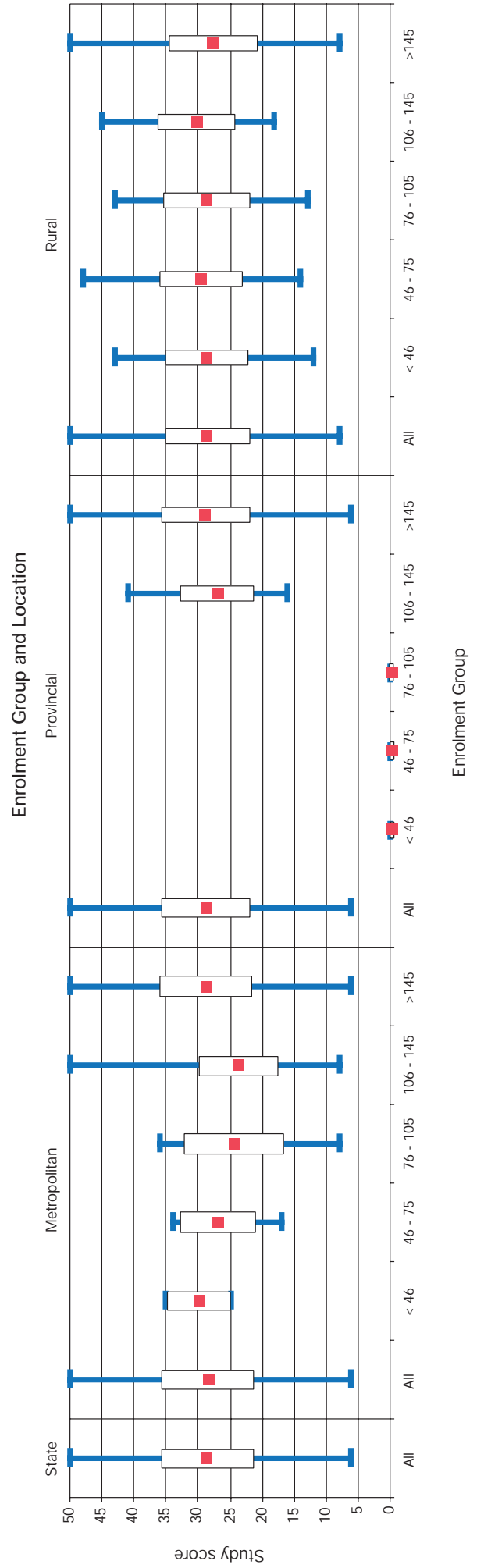
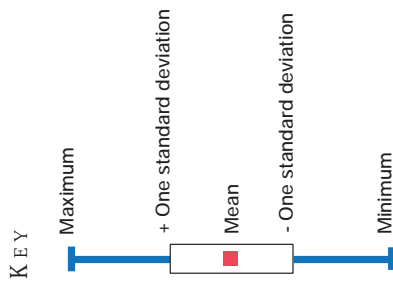
		No. Students	Maximum	Mean + Std. Dev	Mean	Mean - Std. Dev	Minimum
Metropolitan	All	8,842	50	36.1	29.0	21.9	5
	All	5,317	50	35.6	28.4	21.3	5
	< 46	6	43	37.4	28.5	19.6	17
	46 - 75	2	39	39.0	34.5	30.0	30
	76 - 105	62	45	33.6	25.9	18.2	13
Provincial	106 - 145	337	47	31.8	25.5	19.3	5
	>145	4,910	50	35.8	28.7	21.5	6
	All	1,808	50	36.4	29.6	22.8	7
	< 46	0	0	0.0	0.0	0.0	0
	46 - 75	0	0	0.0	0.0	0.0	0
Rural	76 - 105	0	0	0.0	0.0	0.0	0
	106 - 145	60	42	35.0	28.7	22.4	13
	>145	1,748	50	36.5	29.6	22.8	7
	All	1,717	50	37.1	30.2	23.4	10
	< 46	122	50	39.7	32.9	26.1	18
State	46 - 75	171	50	38.0	31.6	25.2	14
	76 - 105	189	48	37.1	29.6	22.2	11
	106 - 145	189	50	38.7	32.5	26.3	17
	>145	1,046	50	36.2	29.4	22.6	10



**TABLE 4 4** SELECTED STUDIES STUDY SCORES: DISTRIBUTION BY VCE COHORT SIZE AND SCHOOL LOCATION

Study: Mathematical Methods

		No. Students	Maximum	Mean + Std. Dev	Mean	Mean - Std. Dev	Minimum
Metropolitan	All	8,511	50	35.9	28.8	21.7	6
	All	6,090	50	36.0	28.8	21.6	6
	< 46	2	35	35.0	30.0	25.0	25
	46 - 75	7	34	33.1	27.3	21.5	17
	76 - 105	25	36	32.4	24.6	16.9	8
Provincial	106 - 145	305	50	30.2	24.0	17.9	8
	>145	5,751	50	36.2	29.1	21.9	6
	All	1,281	50	35.9	29.0	22.1	6
	< 46	0	0	0.0	0.0	0.0	0
	46 - 75	0	0	0.0	0.0	0.0	0
Rural	76 - 105	0	0	0.0	0.0	0.0	0
	106 - 145	57	41	32.9	27.3	21.6	16
	>145	1,224	50	36.1	29.1	22.2	6
	All	1,140	50	35.5	28.8	22.1	8
	< 46	79	43	35.4	29.0	22.6	12
State	46 - 75	161	48	36.1	29.7	23.3	14
	76 - 105	128	43	35.7	28.9	22.1	13
	106 - 145	175	45	36.5	30.6	24.6	18
	>145	597	50	34.9	28.0	21.2	8



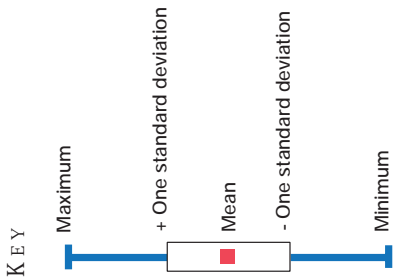


COMPARISON OF STUDY SCORE DISTRIBUTION FOR  
GIRLS IN COEDUCATIONAL AND ALL GIRL SCHOOLS

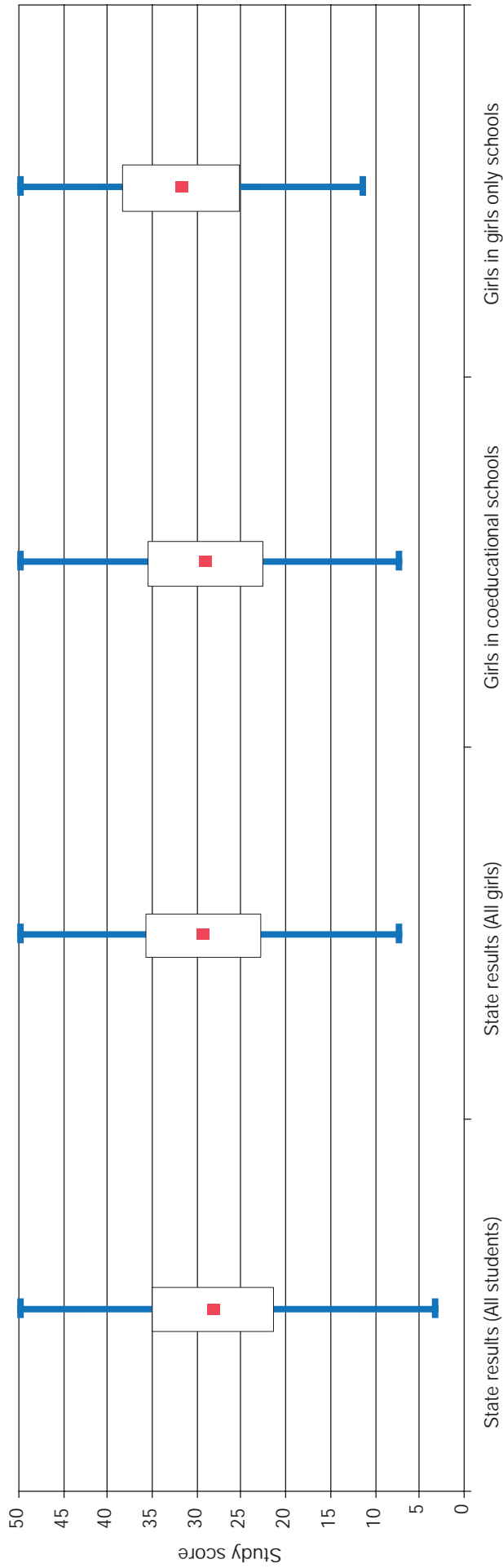
**TABLE 4.5** SELECTED STUDIES STUDY SCORES: DISTRIBUTION BY GIRLS SCHOOL TYPE

Study: English

	No. Students	Maximum	Mean + Std. Dev	Mean	Mean - Std. Dev	Minimum
State results (All students)	24,129	50	35.2	28.4	21.6	3
State results (All girls)	13,631	50	35.9	29.5	23.0	7
Girls in coeducational schools	12,666	50	35.7	29.3	22.8	7
Girls in girls only schools	965	50	38.7	32.0	25.3	11



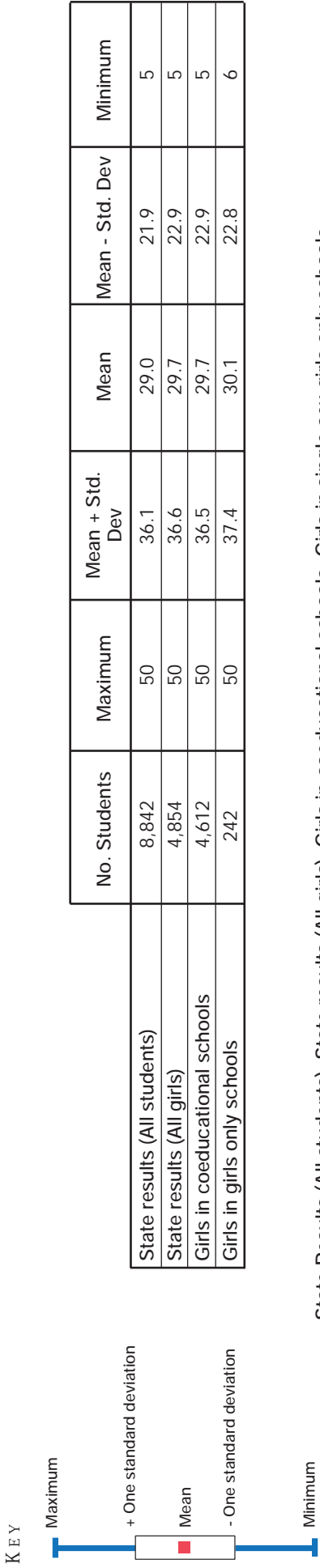
State Results (All students), State results (All girls), Girls in coeducational schools, Girls in single sex girls only schools



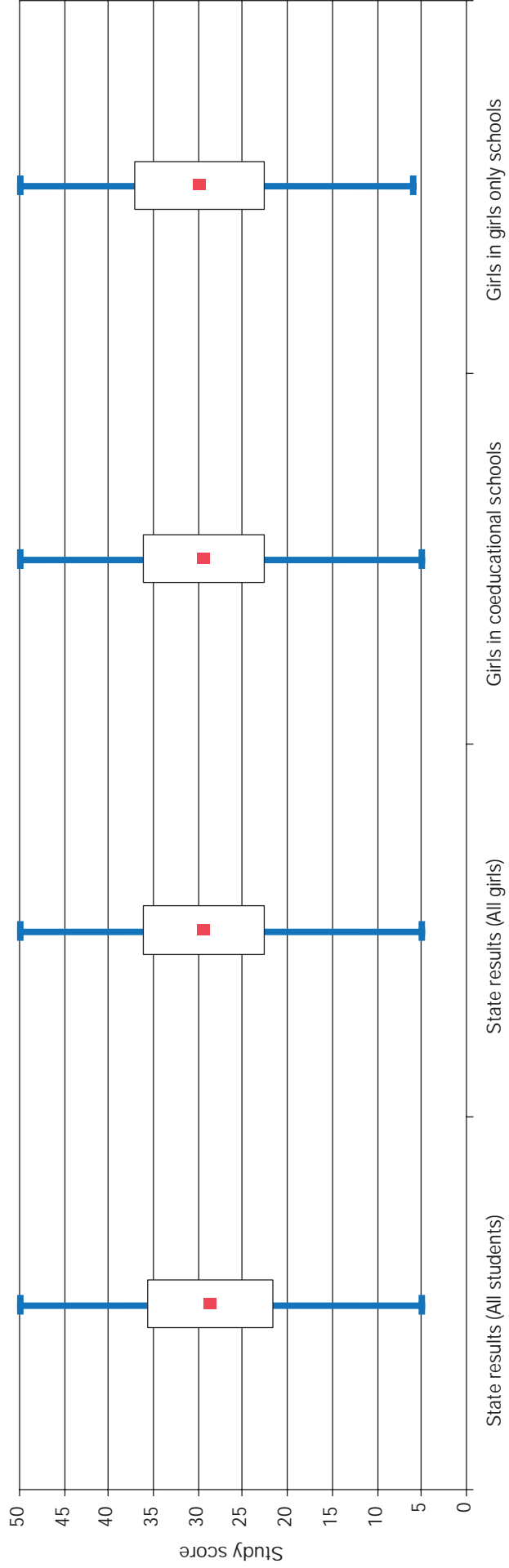
**TABLE 4 6** SELECTED STUDIES STUDY SCORES: DISTRIBUTION BY GIRLS SCHOOL TYPE

Study: Further Mathematics

	No. Students	Maximum	Mean + Std. Dev	Mean	Mean - Std. Dev	Minimum
State results (All students)	8,842	50	36.1	29.0	21.9	5
State results (All girls)	4,854	50	36.6	29.7	22.9	5
Girls in coeducational schools	4,612	50	36.5	29.7	22.9	5
Girls in girls only schools	242	50	37.4	30.1	22.8	6



State Results (All students), State results (All girls), Girls in coeducational schools, Girls in single sex girls only schools

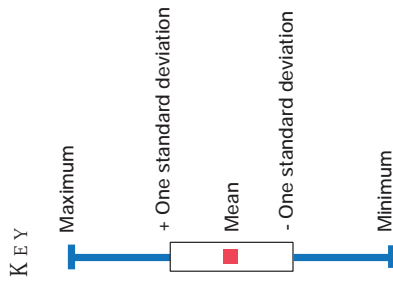


**TABLE 47**

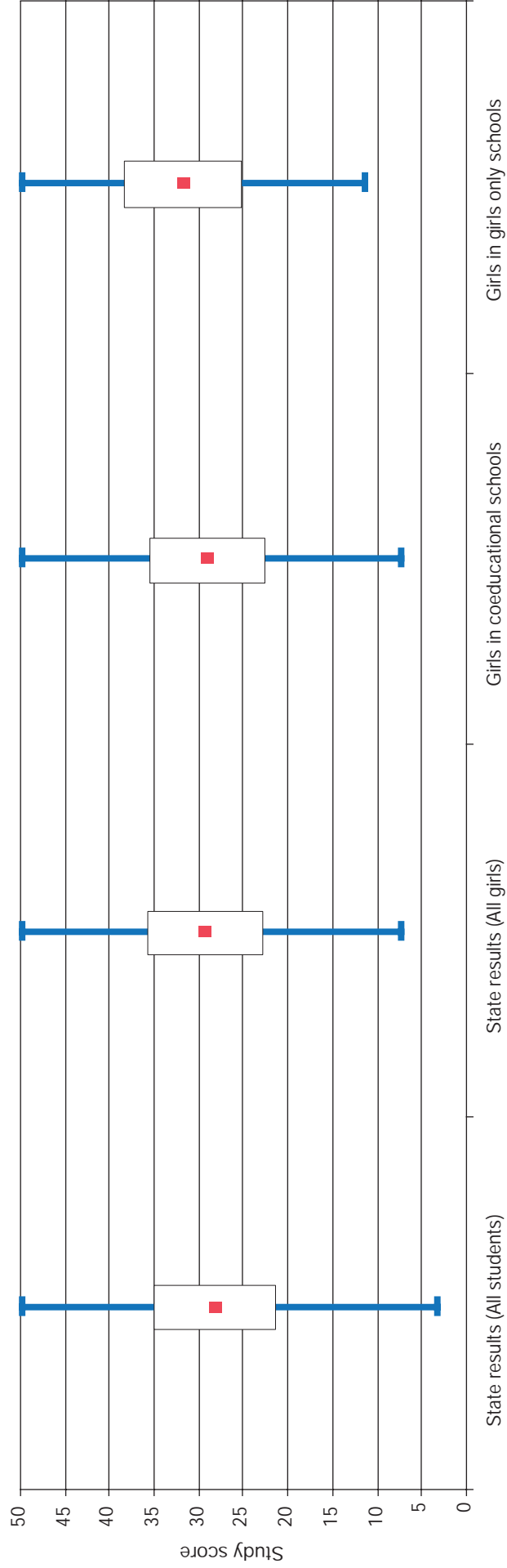
SELECTED STUDIES STUDY SCORES: DISTRIBUTION BY GIRLS SCHOOL TYPE

Study: MA08 Mathematical Methods

	No. Students	Maximum	Mean + Std. Dev	Mean	Mean - Std. Dev	Minimum
State results (All students)	24,129	50	35.2	28.4	21.6	3
State results (All girls)	13,631	50	35.9	29.5	23.0	7
Girls in coeducational schools	12,666	50	35.7	29.3	22.8	7
Girls in girls only schools	965	50	38.7	32.0	25.3	11



State Results (All students), State results (All girls), Girls in coeducational schools, Girls in single sex girls only schools





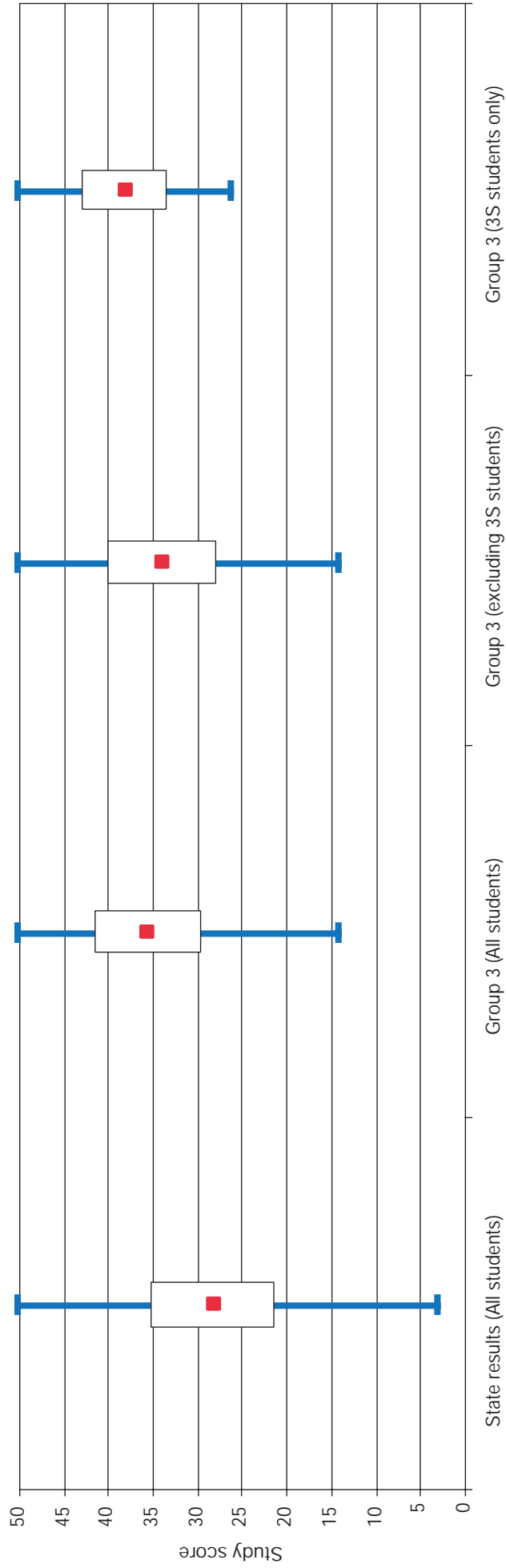
COMPARISON OF STUDY SCORE DISTRIBUTION FOR  
'LIKE' SCHOOL GROUP 3 AND SELECTED ENTRY SCHOOLS

**TABLE 48** SELECTED STUDIES STUDY SCORES: DISTRIBUTION BY 'LIKE' GROUP 3 SCHOOLS

Study: English

	No. Students	Maximum	Mean + Std. Dev	Mean	Mean - Std. Dev	Minimum
State results (All students)	24,129	50	35.2	28.4	21.6	3
Group 3 (All students)	1,206	50	41.6	35.7	29.8	14
Group 3 (excluding 3S students)	730	50	40.1	34.0	28.0	14
Group 3 (3S students only)	476	50	43.0	38.3	33.5	26

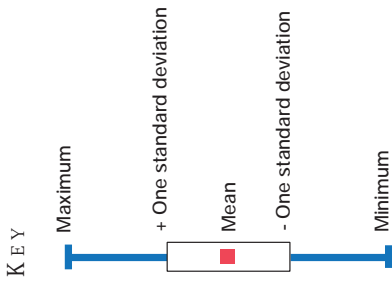
State Results, All Group 3 schools, Group 3 schools (excluding selective entry schools), and Group 3S schools (selective entry schools)



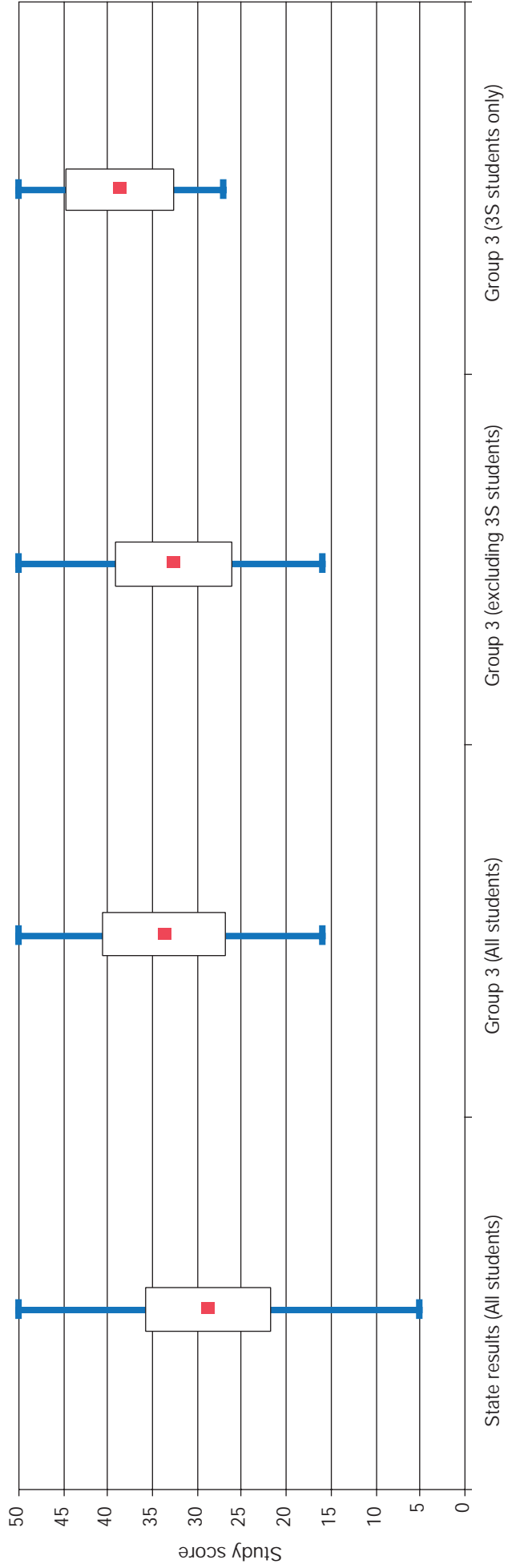
**TABLE 49** SELECTED STUDIES STUDY SCORES: DISTRIBUTION BY 'LIKE' GROUP 3 SCHOOLS

Study: Further Mathematics

	No. Students	Maximum	Mean + Std. Dev	Mean	Mean - Std. Dev	Minimum
State results (All students)	8,842	50	36.1	29.0	21.9	5
Group 3 (All students)	196	50	40.7	33.8	27.0	16
Group 3 (excluding 3S students)	161	50	39.3	32.8	26.2	16
Group 3 (3S students only)	35	50	45.0	38.9	32.7	27



State Results, All Group 3 schools, Group 3 schools (excluding selective entry schools), and Group 3S schools (selective entry schools)

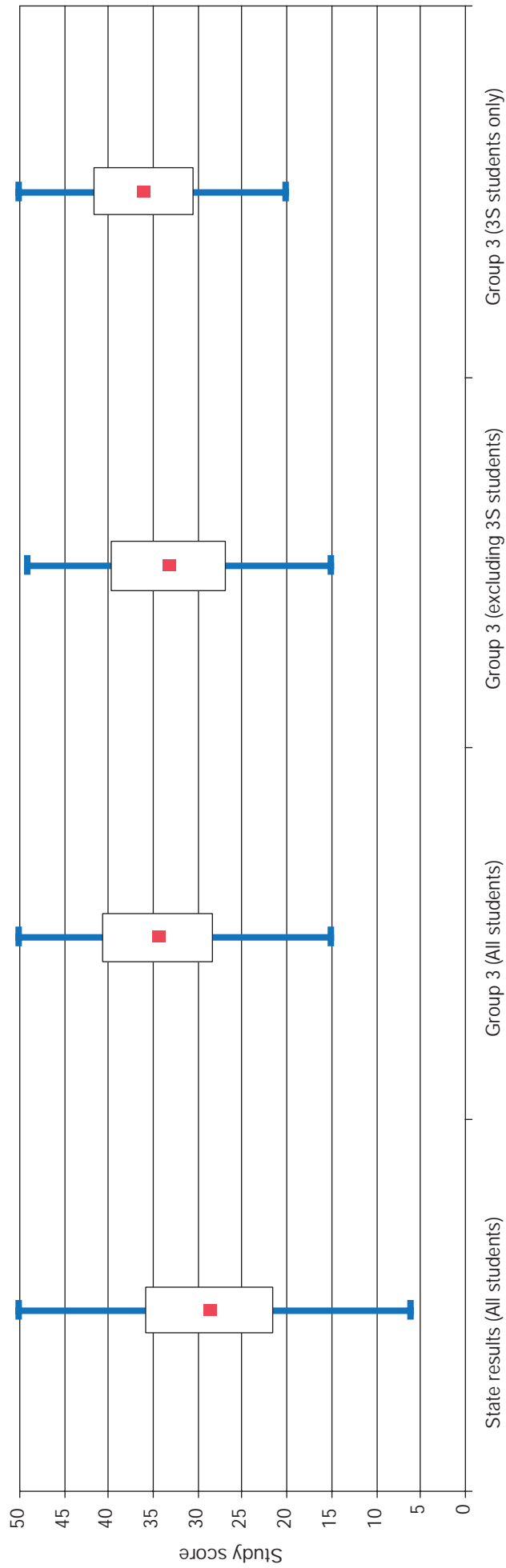


**TABLE 50** SELECTED STUDIES STUDY SCORES: DISTRIBUTION BY 'LIKE' GROUP 3 SCHOOLS

Study: Mathematical Methods

	No. Students	Maximum	Mean + Std. Dev	Mean	Mean - Std. Dev	Minimum
State results (All students)	8,511	50	35.9	28.8	21.7	6
Group 3 (All students)	967	50	40.8	34.6	28.5	15
Group 3 (excluding 3S students)	545	49	39.8	33.5	27.1	15
Group 3 (3S students only)	422	50	41.7	36.2	30.6	20

State Results, All Group 3 schools, Group 3 schools (excluding selective entry schools), and Group 3S schools (selective entry schools)





APPARENT RETENTION AND COMPLETION

**TABLE 51** YEAR 7 – 10 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	193.75	115.12	180.00	101.20	119.15	193.75	100.00	126.47	126.32	169.72
75th Percentile	102.07	102.97	96.22	101.09	100.97	105.00	92.10	96.38	96.38	117.23
Mean	95.03	94.83	94.19	96.69	94.91	96.37	89.53	89.86	89.86	103.77
25th Percentile	86.52	83.80	90.62	97.19	89.33	85.71	85.81	82.19	82.19	90.47
Minimum	56.52	56.52	79.14	67.82	57.14	74.51	66.67	63.64	63.64	79.63

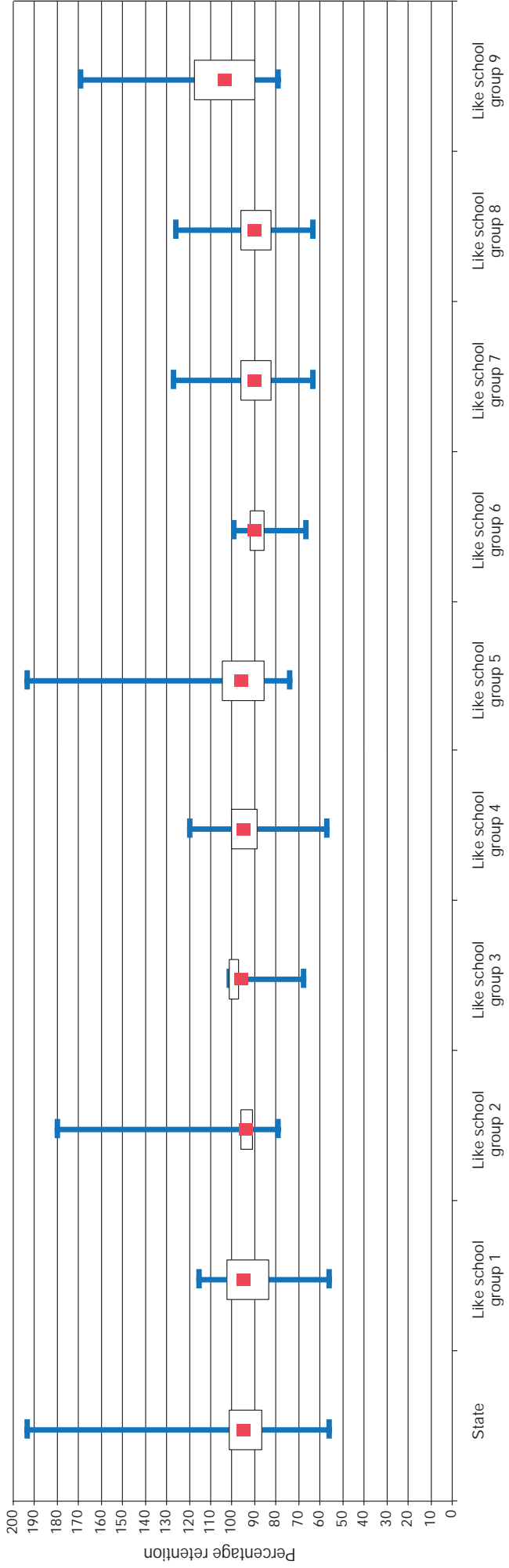
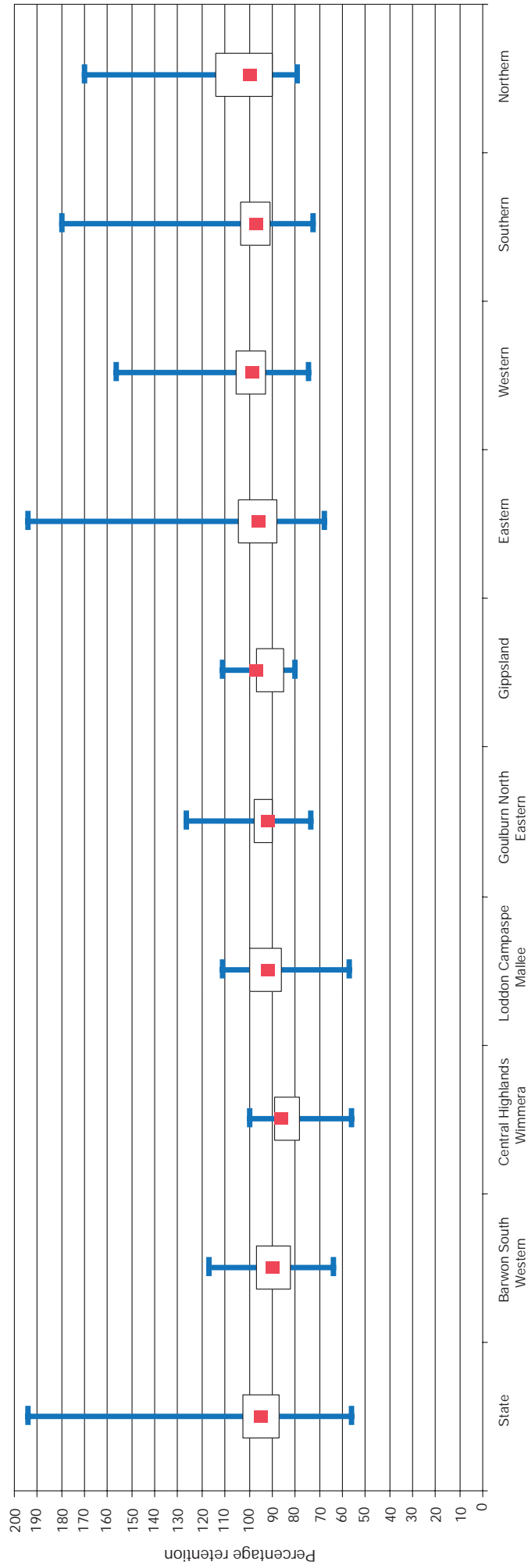
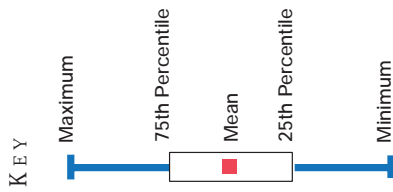


TABLE 5.2 YEAR 7 - 10 APPARENT RETENTION BY REGION

	State	Barwon South Western	Central Highlands Wimmera	Loddon Campaspe Mallee	Goulburn North Eastern	Gippsland	Eastern	Western	Southern	Northern
Maximum	193.75	117.21	100.00	111.11	126.47	111.18	193.75	156.90	180.00	169.72
75th Percentile	102.07	96.79	89.03	100.00	97.62	96.88	104.26	105.63	103.69	113.76
Mean	95.03	89.71	86.20	91.72	92.04	96.81	95.24	98.74	96.80	99.49
25th Percentile	86.52	81.94	78.61	85.65	90.16	85.39	87.57	92.65	90.58	90.26
Minimum	56.52	63.64	56.52	57.14	73.81	80.00	67.82	74.51	72.73	79.63



**TABLE 53**

**YEAR 7 – 10 APPARENT RETENTION BY GENDER**

	State	Boys	Girls
Maximum	193.75	185.29	185.71
75th Percentile	102.07	100.00	105.26
Mean	95.03	92.43	97.49
25th Percentile	86.52	82.08	88.12
Minimum	56.52	50.00	50.00

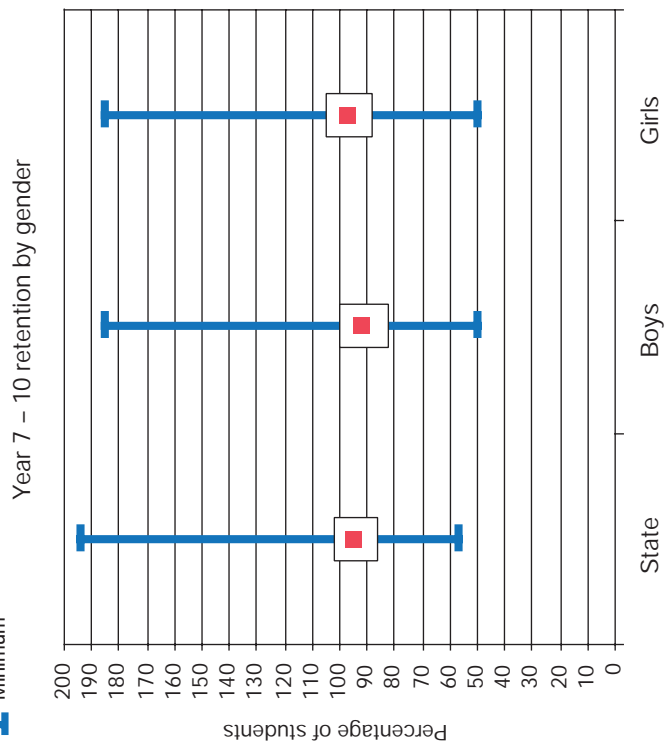
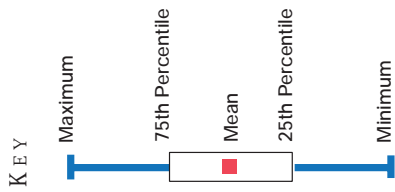


TABLE 54 YEAR 11 - 12 APPARENT RETENTION BY 'LIKE' SCHOOL GROUP

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	169.56	98.98	105.90	96.33	169.56	92.06	88.13	110.00	89.09	88.37
75th Percentile	82.01	88.91	90.42	93.96	81.68	77.54	80.48	75.69	75.16	78.66
Mean	76.36	79.88	84.78	90.41	77.35	71.24	69.96	69.68	72.47	73.91
25th Percentile	66.72	75.05	79.00	82.91	68.18	61.97	65.82	63.60	49.06	67.07
Minimum	6.25	63.28	68.70	77.99	46.88	22.90	62.95	41.18	6.25	45.63

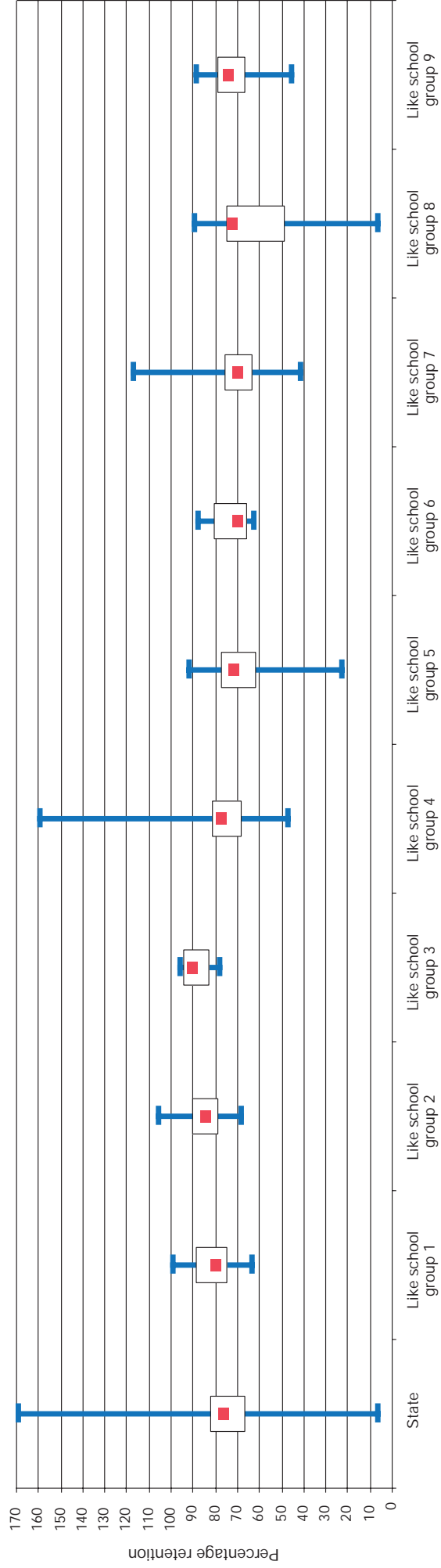
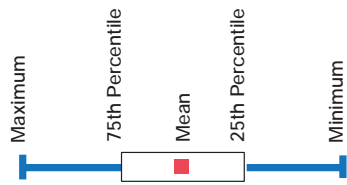
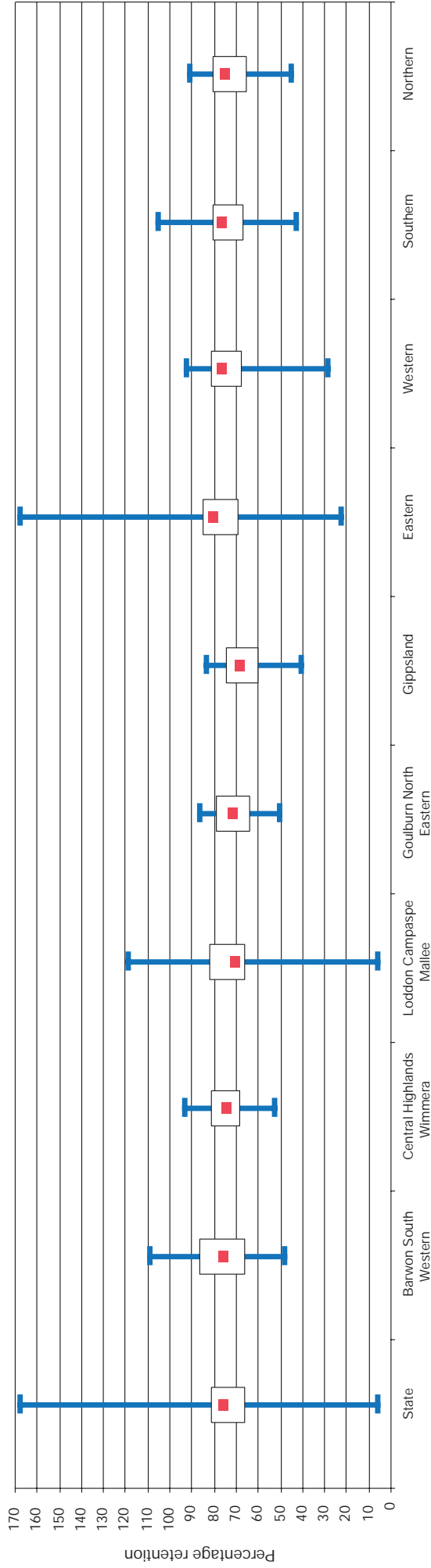


TABLE 55 YEAR 11 - 12 APPARENT RETENTION BY REGION

KEY

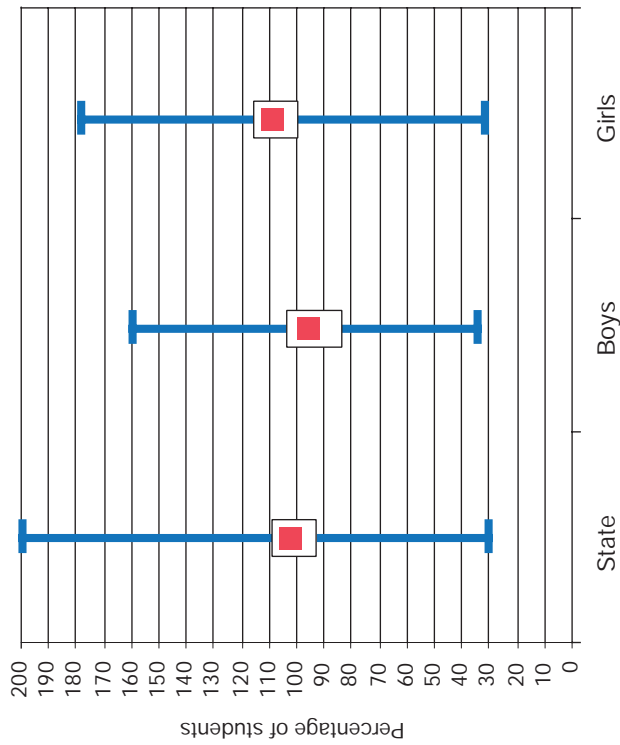


	State	Banwon South Western	Central Highlands Wimmera	Loddon Campaspe Mallee	Goulburn North Eastern	Gippsland	Eastern	Western	Southern	Northern
Maximum	169.56	110.00	94.06	120.00	86.93	84.62	169.56	93.30	105.90	92.06
75th Percentile	82.01	87.13	82.14	82.60	79.63	75.12	85.95	81.69	80.98	81.51
Mean	76.36	76.42	75.00	71.36	72.02	69.23	80.96	77.41	77.40	75.62
25th Percentile	66.72	66.94	68.77	66.98	64.24	60.85	70.13	68.64	67.72	66.01
Minimum	6.25	48.39	52.94	6.25	50.57	41.18	22.90	28.57	43.64	45.63



**TABLE 56** YEAR 11 – 12 RETENTION BY GENDER

	State	Boys	Girls
Maximum	169.56	130.77	150.00
75th Percentile	82.01	77.29	88.89
Mean	76.36	69.46	82.39
25th Percentile	66.72	58.52	73.92
Minimum	6.25	10.00	8.33



**TABLE 57**

YEAR 12 COMPLETION BY 'LIKE' SCHOOL GROUP

	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	101.99	100.00	100.22	99.58	101.99	100.00	100.00	100.00	101.17	100.00
75th Percentile	96.61	97.93	98.12	99.32	96.04	95.66	95.24	94.44	96.72	96.15
Mean	92.83	94.52	96.87	98.70	93.07	90.81	90.74	88.01	90.54	93.12
25th Percentile	89.90	92.64	96.02	98.18	91.46	88.77	89.29	87.53	82.95	89.20
Minimum	50.00	89.86	92.11	93.33	80.00	65.22	88.39	71.11	50.00	83.33

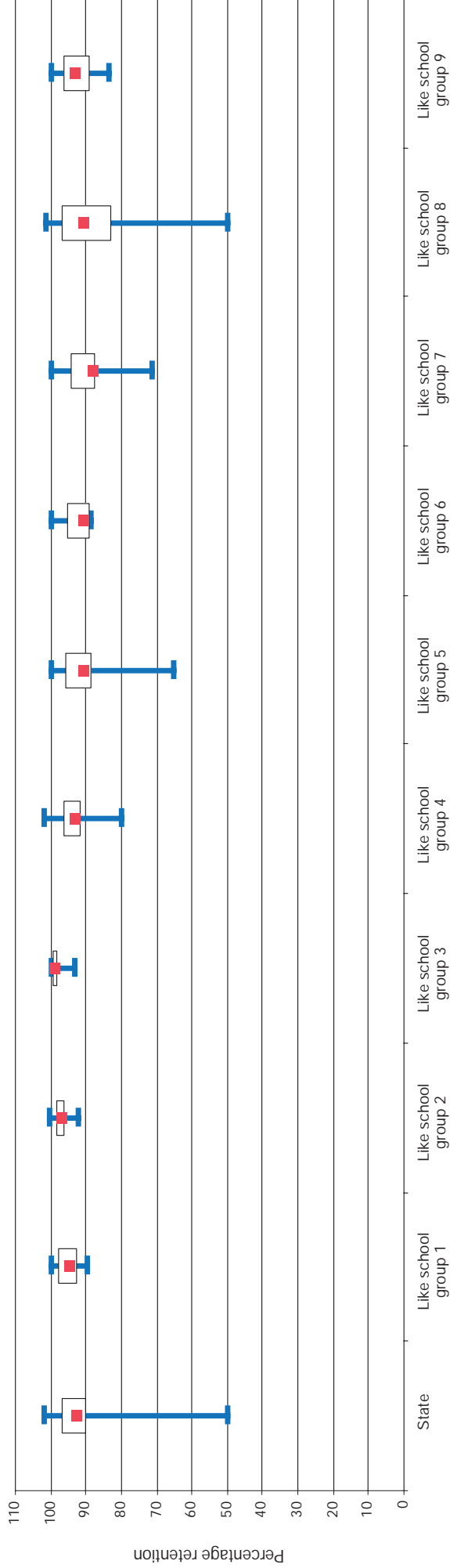
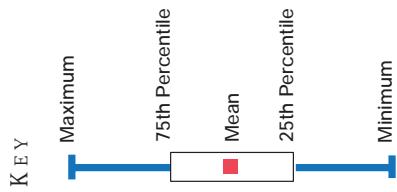


TABLE 58

YEAR 12 COMPLETION BY REGION

	State	Barwon South Western	Central Highlands Wimmera	Loddon Campaspe Mallee	Goulburn North Eastern	Gippsland	Eastern	Western	Southern	Northern
Maximum	101.99	100.00	100.00	100.00	103.82	100.00	100.68	100.00	100.00	100.00
75th Percentile	96.61	94.74	98.05	100.00	95.09	94.69	96.61	95.16	96.47	97.14
Mean	92.83	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	50.00	77.78	80.84	77.78	78.95	64.71	63.83	71.43	77.78	72.79

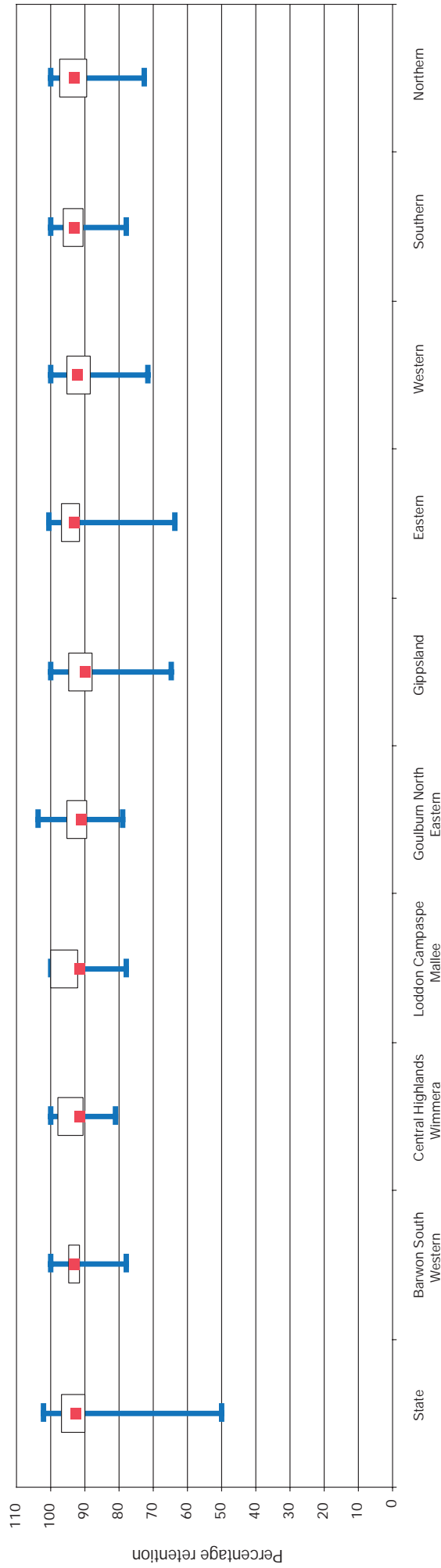
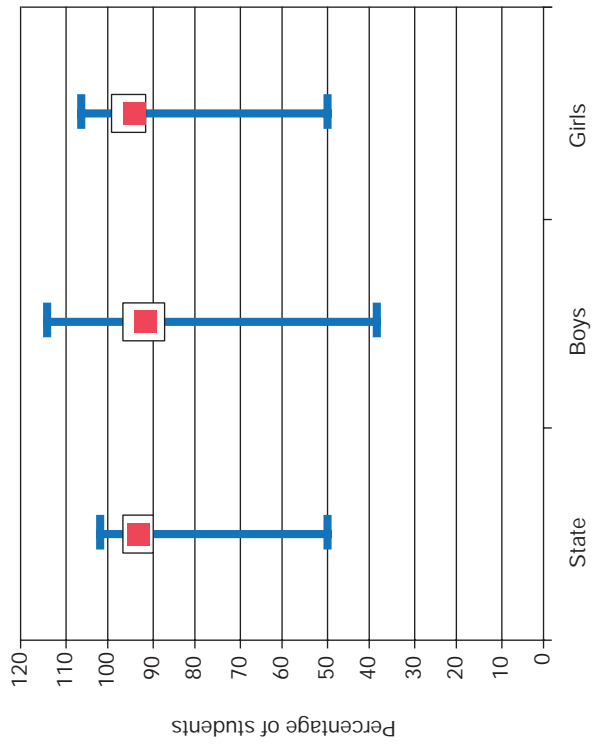


TABLE 59

YEAR 12 COMPLETION BY GENDER

KEY

	State	Boys	Girls
Maximum	101.99	114.29	106.17
75th Percentile	96.61	96.26	99.07
Mean	92.83	91.17	94.22
25th Percentile	89.90	87.39	91.00
Minimum	50.00	38.46	50.00



# APPENDIX NO. 1

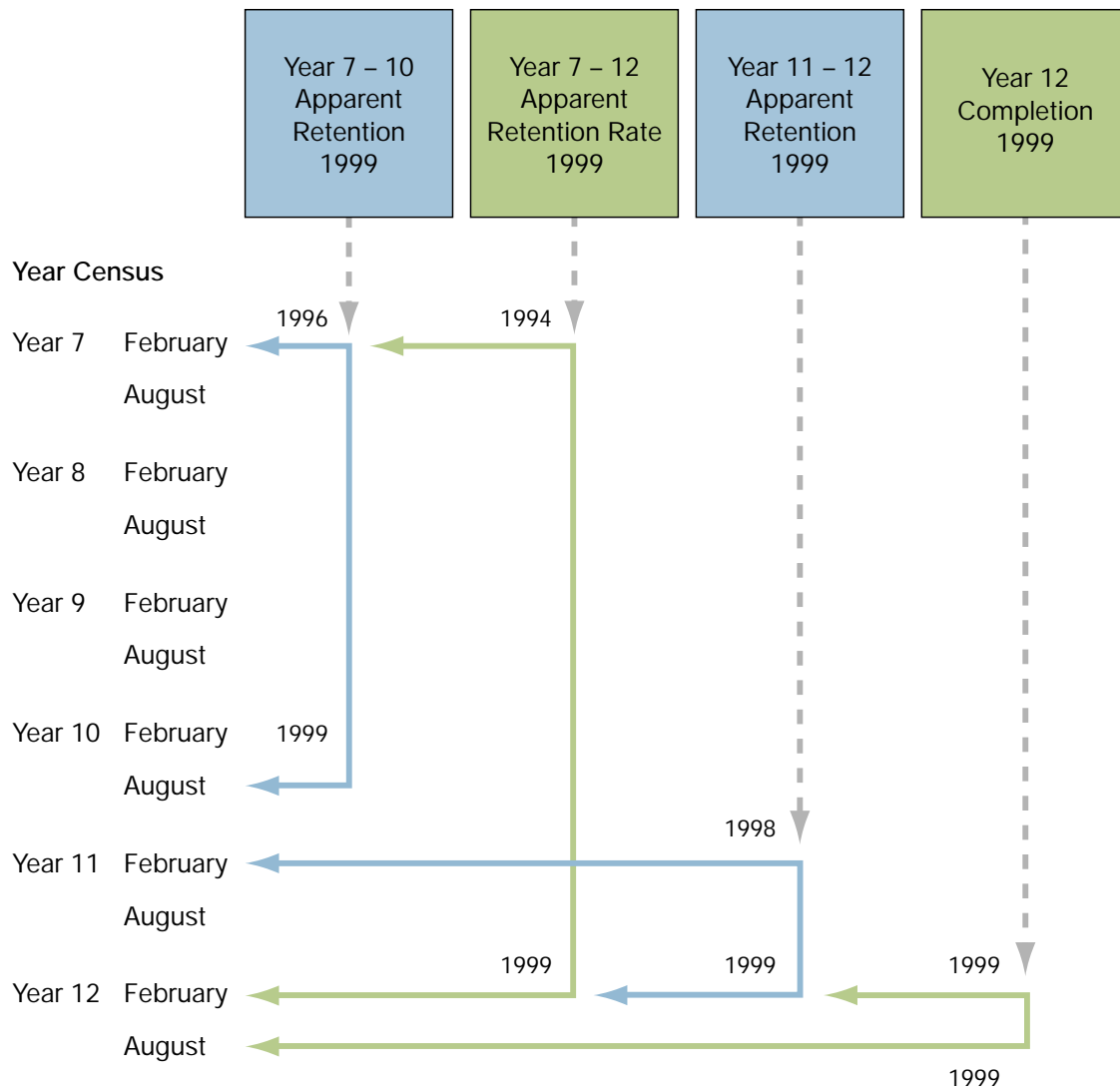
## RETENTION AND COMPLETION: DEFINITION OF TERMS

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 refers to 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 DOE does not collect data on actual retention.

The following diagram clarifies the terms used by the Accountability and Development Division and the official apparent retention figures published by the Department of Education.



## APPENDIX NO. 2

### ‘LIKE’ SCHOOL GROUPS

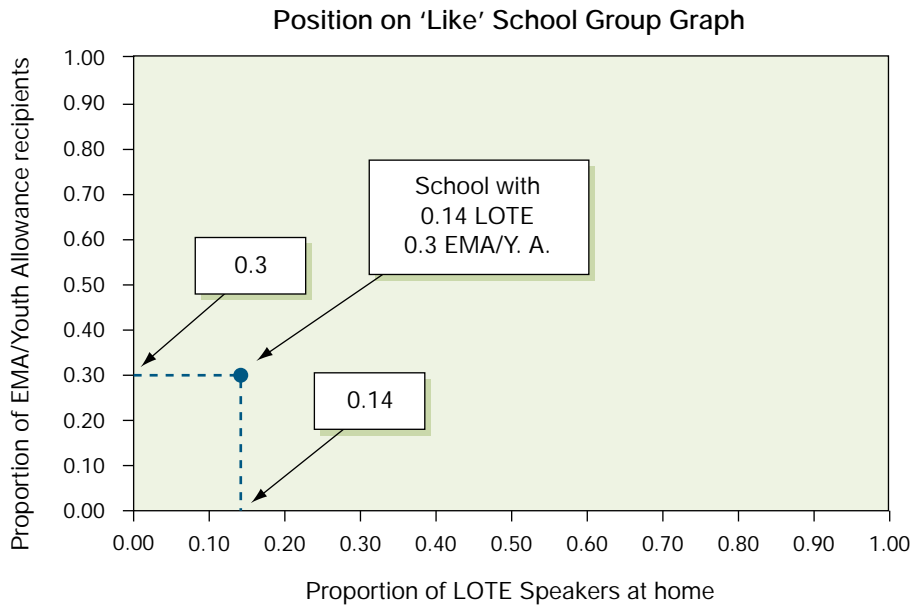
‘LIKE’ SCHOOL GROUPS		
<p style="text-align: center;"><b>Group Seven</b></p> <p style="text-align: center;"><i>Nil-Low LOTE, High EMA/Youth Allowance</i></p> <p style="text-align: center;">0 to &lt; = 0.04 LOTE &gt; 0.43 EMA/Youth Allowance</p>	<p style="text-align: center;"><b>Group Eight</b></p> <p style="text-align: center;"><i>Low LOTE, High EMA/Youth Allowance</i></p> <p style="text-align: center;">0.04 to &lt; = 0.26 LOTE &gt; 0.43 EMA/Youth Allowance</p>	<p style="text-align: center;"><b>Group Nine</b></p> <p style="text-align: center;"><i>Medium-High LOTE High EMA/Youth Allowance</i></p> <p style="text-align: center;">&gt; 0.26 LOTE &gt; 0.43 EMA/Youth Allowance</p>
<p style="text-align: center;"><b>Group Four</b></p> <p style="text-align: center;"><i>Nil-Low LOTE, Medium EMA/Youth Allowance</i></p> <p style="text-align: center;">0 to &lt; = 0.04 LOTE &gt; 0.28 to &lt; = 0.43 EMA/Youth Allowance</p>	<p style="text-align: center;"><b>Group Five</b></p> <p style="text-align: center;"><i>Low LOTE, Medium EMA/Youth Allowance</i></p> <p style="text-align: center;">0.04 to &lt; = 0.26 LOTE &gt; 0.28 to &lt; = 0.43 EMA/Youth Allowance</p>	<p style="text-align: center;"><b>Group Six</b></p> <p style="text-align: center;"><i>Medium-High LOTE Medium EMA/Youth Allowance</i></p> <p style="text-align: center;">&gt; 0.26 LOTE &gt; 0.28 to &lt; = 0.43 EMA/Youth Allowance</p>
<p style="text-align: center;"><b>Group One</b></p> <p style="text-align: center;"><i>Nil-Low LOTE, Low EMA/Youth Allowance</i></p> <p style="text-align: center;">0 to &lt; = 0.04 LOTE 0 to &lt; = 0.28 EMA/Youth Allowance</p>	<p style="text-align: center;"><b>Group Two</b></p> <p style="text-align: center;"><i>Low LOTE, Low EMA/Youth Allowance</i></p> <p style="text-align: center;">&gt; 0.04 to &lt; = 0.26 LOTE 0 to &lt; = 0.28 EMA/Youth Allowance</p>	<p style="text-align: center;"><b>Group Three/ Selected Entry (Three S)</b></p> <p style="text-align: center;"><i>Medium/High LOTE Low EMA/Youth Allowance</i></p> <p style="text-align: center;">&gt; 0.26 LOTE 0 to &lt; = 0.28 EMA/Youth Allowance</p>

E X A M P L E

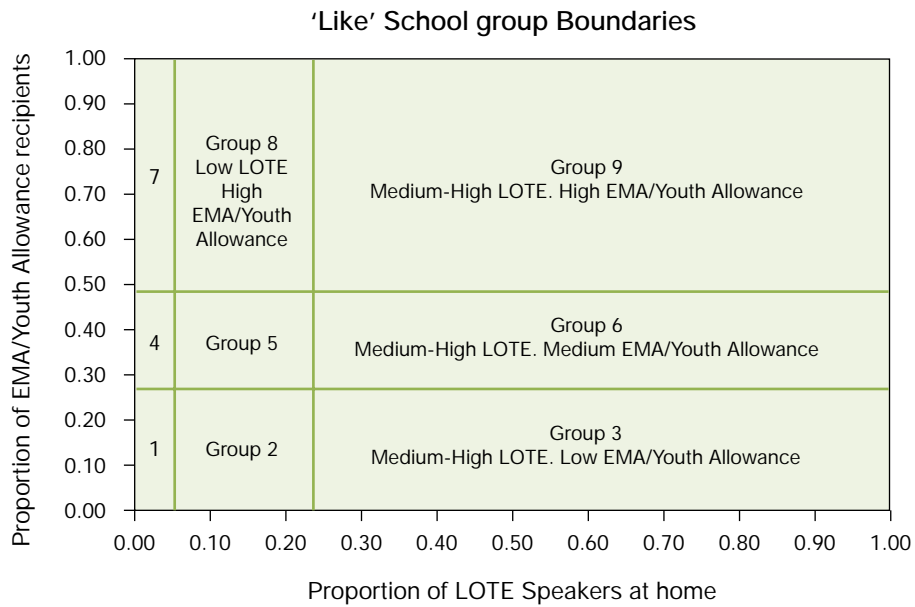
A school for which the proportion of students for whom English is not the main language at home is 0.14 (14%) and the proportion of students on EMA or YOUTH ALLOWANCE is 0.30 (30%), will be included in 'like' school group five.

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 YOUTH

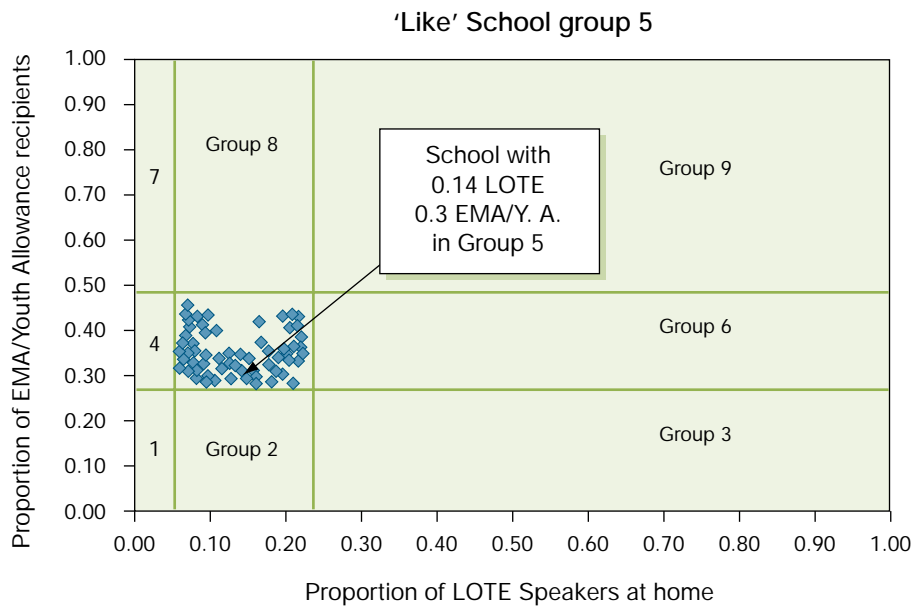
ALLOWANCE on the other. The school will appear as a single point.



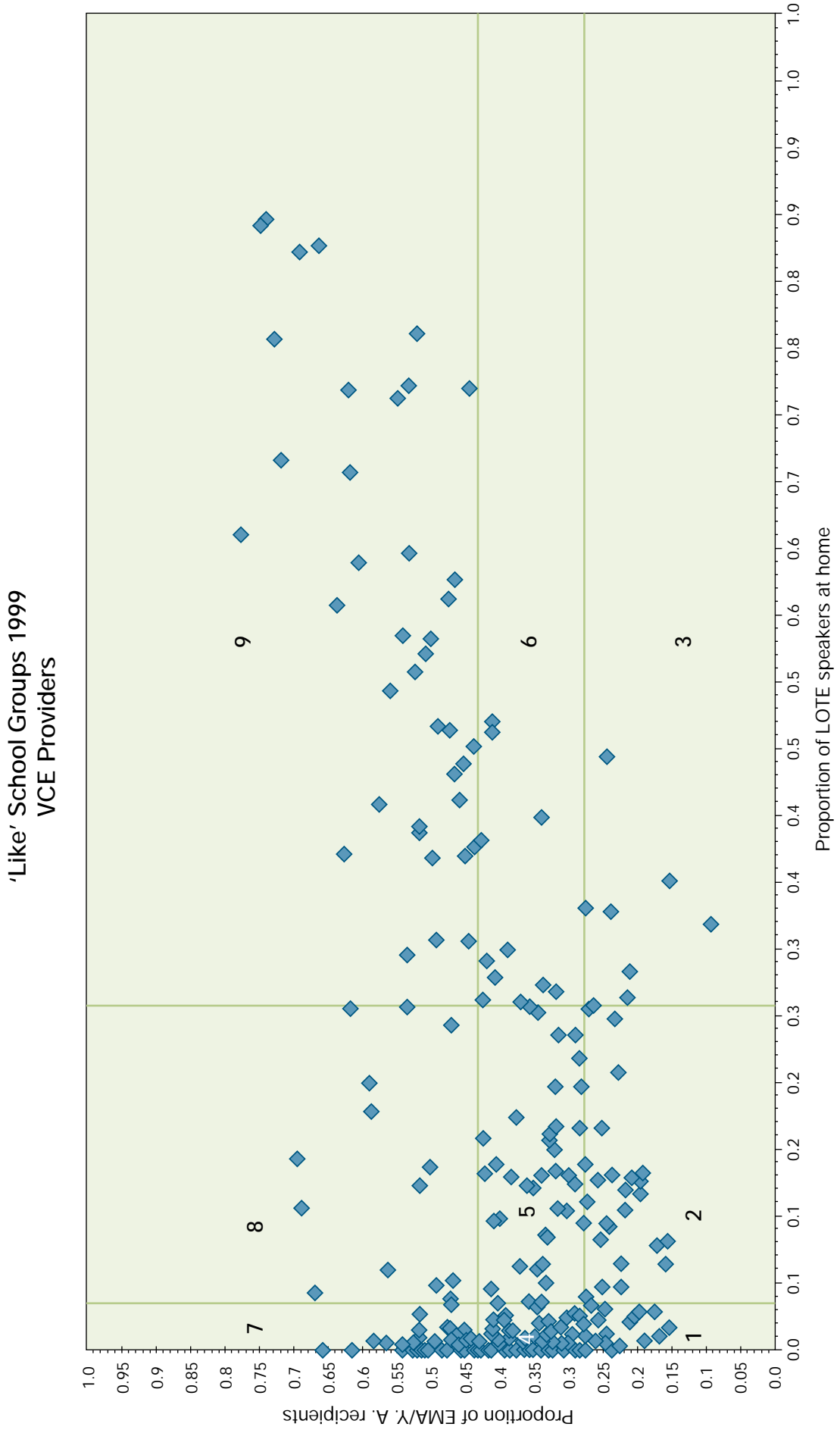
The boundaries of each of the 'like' school groups can also be shown on a graph.



When all the 114 schools in 'like' school group 5 are plotted, the position of the example school with a LOTE proportion of 0.14 and EMA/Youth Allowance 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/YOUTH ALLOWANCE 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.

AUGUST CENSUS FORM

DATE PRINTED: 02/08/99

Year of Education		EMA/ Youth Allowance						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 YOUTH ALLOWANCE.

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

$$\begin{aligned}
 \text{Proportion of EMA/Youth Allowance} &= \frac{\text{Number of students receiving EMA/Y.A.}}{\text{total number of students in the school.}} \\
 &= \frac{250}{833} \\
 &= 0.30
 \end{aligned}$$

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

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



