



**Schola Europaea**

European Baccalaureate Unit

Office of the Secretary-General

**Ref. : 2017-10-D-1-en-5**

**Orig.: EN**

## **Report on European Baccalaureate 2017**

---

**Approved by the Board of Governors of the European Schools**

**On its meeting of 5<sup>th</sup>, 6<sup>th</sup> and 7<sup>th</sup> December 2017 – OSGES Brussels**

---



INDEX	
Abbreviations	4
INTRODUCTION	5
1. The European Bacculaureate Examinations	6
1.1 Structure of the examinations	6
1.2 Additional written examinations	7
1.3 Correction of the European Bacculaureate Examinations: the On-line Correction System	8
1.4 Communication	11
2. Assurance Quality of the European Bacculaureate 2017 Session	11
2.1 The European Bacculaureate Subjects	11
2.2 Quality control of the European Bacculaureate examination proceedings	11
2.3 Inspectors responsible for the different subjects	13
3. The European Bacculaureate Candidates	15
3.1 Number of candidates in the 2017 European Bacculaureate session	15
3.2 Participation in the Eur. Bacculaureate 2017 session by school and by language section	17
3.3 Evolution of the number of schools and candidates over the years	18
4. General Results of the European Bacculaureate 2017 session	20
4.1 Success rate over the last 15 years	20
4.2 Final marks and averages	22
4.3 The Preliminary Marks	25
4.4 The Written Correction Marks	28
4.5 Gender differences	31
4.6 EB examinations and most popular written and oral examination options	34
4.7 Students Without A Language Section (SWALS)	39
5. Results about the Sciences: Biology, Chemistry, Economic Sciences, Mathematics 3P, Mathematics 5P and Physics	41
5.1 Final Marks for Science Classes	41
5.2 Comparison of Final Marks / Written Marks of Scientific Courses	41
5.3 EB Sciences Written Examination Marks Results	48
5.4 Oral Marks Average for Science EB Examinations	61

## Abbreviations

SCHOOLS	
*BRI:	Liceo scientifico "Fermi Monticelli" Brindisi
*HEL:	European Schooling Helsinki
*HER:	School of European Education Heraklion
*MAN:	École internationale de Manosque
*PAR:	Scuola per l'Europa di Parma
*RHM:	Europäische Schule RheinMain
*STR:	École européenne de Strasbourg
ALI :	Alicante
BER:	Bergen
BR 1 / UCC:	Bruxelles 1
BR 2 / WOL:	Bruxelles 2
BR 3 / IXL:	Bruxelles 3
BR 4 / LAE:	Bruxelles 4
CUL:	Culham
FRF:	Frankfurt
KAR:	Karlsruhe
LUX 1 / LUX:	Luxembourg 1
LUX 2 / MAM:	Luxembourg 2
MOL:	Mol
MUN:	Munich
VAR:	Varese

LANGUAGES		
1	BG :	Bulgarian
2	CS :	Czech
3	DE :	German
4	DA :	Danish
5	EL :	Greek
6	EN:	English
7	ES	Spanish
8	ET :	Estonian
9	FI :	Finnish
10	FR :	French
11	GA :	Gaelic
12	HR:	Croatian
13	HU :	Hungarian
14	IT :	Italian
15	LT :	Lithuanian
16	LV :	Latvian
17	MT:	Maltese
18	NL :	Dutch
19	PL :	Polish
20	PT :	Portuguese
21	RO :	Romanian
22	SK :	Slovakian
23	SL :	Slovene
24	SV :	Swedish

SUBJECTS			
ART:	Artistic Education	ar4 – Art (4 hours)	Written
BIO:	Biology	bi2 – Biology (2 hour option)	Oral
		bi4 – Biology (4 hour option)	Written or Oral
CHI:	Chemistry	chi – Chemistry	Written or Oral
ECO:	Economics	eco – Economics	Written
GEO:	Geography	ge2 – Geography (2 hour option)	Oral
		ge4 – Geography (4 hour option)	Written or Oral
GRE ANC.:	Ancient Greek	gre – Ancient Greek	Written
HI:	History	hi2 – History (2 hour option)	Oral
		hi4 – History (4 hour option)	Written or Oral
L (1):	Language Basic course	i1 – Language I	Written and Oral
		i2 – Language II	Written and/or Oral
		i3 – Language III	Written or Oral
		i4 – Language IV	Written or Oral
(L I) A:	Language Advanced course	i1a – Language I Advanced	Written and Oral
		i2a – Language II Advanced	Written and/or Oral
LAT:	Latin	lat – Latin	Written
MATH:	Mathematics	ma3 – Math (3 hour option)	Written
		ma5 – Math (5 hour option)	Written
		maa – Math Advanced	Oral
MUS:	Musical Education	mu4 – Music (4 hour option)	Written
ONL:	Other National Language	onl – Other National Language	Written or Oral
PH:	Philosophy	ph2 – Philosophy (2 hour option)	Oral
		ph4 – Philosophy (4 hour option)	Written or Oral
PHY:	Physics	phy - Physics	Written or Oral

## Introduction

The 58<sup>th</sup> session of the European Bacculaureate was chaired by Prof. Dr. Wolfgang SCHÖBERLE, European Bacculaureate President, from Germany. 1993 candidates, from 14 European Schools and 7 Accredited Schools, registered for the European Bacculaureate 2017 session.

EB session 2017 - participants	
Registered	2006
Abandoned	13
Participated	<b>1993</b>
Passed	1948
Failed	45
Success rate	<b>97.74%</b>
Fail rate	<b>2.26%</b>

European Bacculaureate 2017 – Averages	
Overall Average for the Preliminary Mark	<b>79.93</b>
Overall Average for Written Examinations	<b>73.93</b>
Overall Average for Oral Examinations	<b>81.86</b>
Overall Average for the Final Mark	<b>78.12</b>

# 1. The European Baccalaureate Examinations

## 1.1. Structure of the examinations

The structure of the European Baccalaureate examinations is defined in Article 3, “Uniformity of examinations”, of the Arrangements for Implementing the European Baccalaureate Regulations, which specifies that:

**ARTICLE 3 — UNIFORMITY OF EXAMINATIONS**

**3.1 Uniformity of Examinations**

*The following can be the subject of written and oral European Baccalaureate examinations:*

- *Compulsory subjects (with the exception of Physical Education and Religion/Ethics)*
- *Options*
- *Advanced subjects*

*All written European Baccalaureate examinations carry the same weighting.*

*All oral European Baccalaureate examinations carry the same weighting.*

3.1.1 *All written European Baccalaureate examinations will be the same for all candidates, irrespective of the language section to which they belong.*

*The examinations in Languages 1, 2, 3 and 4 are different in so far as the examination papers are set with reference to texts in the original languages. However, they must also follow the general harmonisation framework.*

3.1.2 *In Language 1, basic course, a uniform examination will be taken by all the pupils in the same language section. The same applies to Language 1, advanced course.*

3.1.3 *In Foreign Languages, a uniform examination will be taken in each language and at each level by candidates from all language sections.*

<b>5 written examinations</b>	LI – basic or advanced course
	LII – basic or advanced course
	Mathematics–3 periods or 5 periods course
	Two 4 period options
<b>3 oral examinations</b>	LI – basic or advanced course
	LII – basic or advanced course or History 2 p. or 4 p. (if not chosen as written examination) or Geography 2 p. or 4 p.(if not chosen as written examination)
	1 subject chosen by the pupil among the 2-period compulsory subjects and the 4-period options
	or Advanced Mathematics (compulsory for pupils who followed this course).

## 1.2 Additional written examinations

Article 13 of the Arrangements for Implementing the regulations for the European Bacculaureate establishes that candidates may be allowed to sit for an additional written examination of an option subject and the conditions therefor.

Article 13 states that:

**13.1** *In particular cases, European School pupils in the final school year may register for the European Bacculaureate in an additional option subject, whether or not they have attended lessons in the subject in question at the School.*

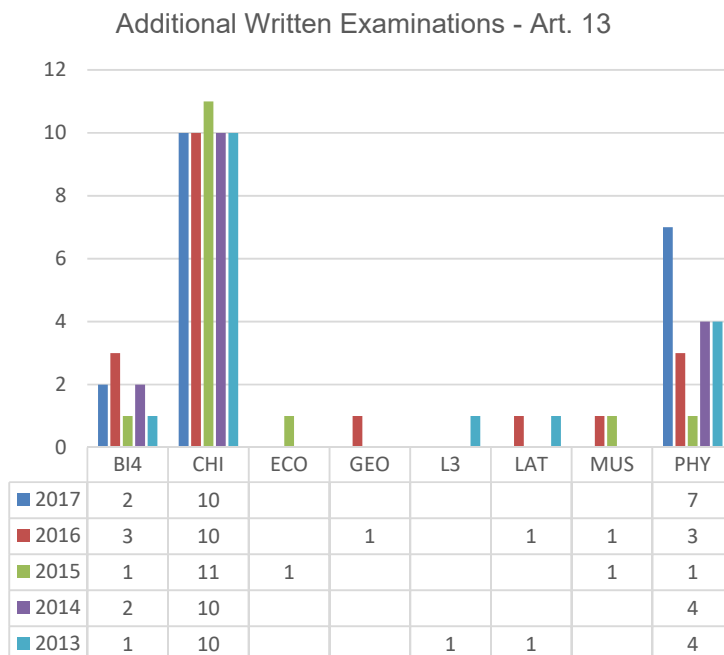
*However, in the case of Music and Art, due to specific syllabus requirements, an additional exam can only be applied for if the pupil has followed the subject or if he provides evidence of the prescribed work done during s6 and s7 so as to ensure that the syllabus requirements are met. (...)*

**13.4** *Only written examinations will be available (...)*

**13.4.2** *The examination script will be corrected, in the same conditions as normal European Bacculaureate examination scripts. (...)*

**13.5** *The result in this additional written examination will not be included for the purposes of calculating the final mark appearing on the candidate's Certificate of European Bacculaureate Marks, but will be shown on an Additional Examination Certificate signed by the Secretary-General of the European Schools (...).*

The graph below shows the evolution of requests for an additional written examination.



27 requests were received this year, 24 were accepted.

5 candidates finally withdrew their request, so only 19 additional written examinations were taken under article 13 at the 2017 EB session.

Chemistry and Physics remain the most popular subjects chosen as an additional examination.

### 1.3 Correction of the European Baccalaureate Examinations: the On-line Correction System

For the first time, the scripts of the European Baccalaureate session were corrected on-line, through the Viatique system, by Neoptec, the French company which won the call for tender launched in 2016 by the OSG. Neoptec is a company specialized in the digitization of examinations paper scripts through production scanners and software for their on-line correction.

Viatique has been **customized to comply with the European Baccalaureate regulations**.



The implementation of the on-line correction system during the European Baccalaureate session 2017 was successful due to everybody's efforts and co-operation.

This new system has shown great potential for the continuous improvement of the quality of assessment of the written European Baccalaureate examinations and for enhancing the efficiency of all the phases in the correction process.

These are some key features supported by the on-line platform :

#### Scanning of the examination scripts

The scanning of the scripts were made in each examination centre. The scripts were compacted and uploaded automatically to a secure server with an encrypted connexion.

The scanning of the examination scripts allowed scripts to be available earlier for second correctors, with the advantage of extending the correction period for second correction.

Special measures for the European Baccalaureate Session 2017 : following a request of INTERPARENTS, and in order to assure zero risk, both the traditional correction system and the on-line correction system overlapped in the European Baccalaureate session 2017.

Once scanned, the paper examination scripts were accessible to the teachers for consultation in the schools, if necessary. Just like every year, once the correction period in the schools ended, the paper examination scripts were shipped by courier to the correction centres, so that they could be accessed by the external correctors, only if necessary. However, all corrections were performed using the on-line platform.

The scanning of the 2017 European Baccalaureate scripts went extremely well. All scripts were scanned according to the schedule, actually even earlier than foreseen, and there was no delay in their distribution to the correctors.

The readability of the scripts on the screen was very good. Only in 0.1% of the cases, a re-scanning was requested. The scanning of special formats for pupils with special arrangements was also successful.

A survey was conducted and 97.77% of the teachers think that the readability of the scripts on the screen is good or very good.



## Anonymity

Anonymity of the scripts resulted in the unbiased assessment of candidates. This was automated during the scanning process.

Mod. EURSC-DACTYLO (correct)	
Surname / Nom Nachname :	<input type="text"/>
Name / Prénom Vorname :	<input type="text"/>
BAC ID :	<input type="text"/>
Date of birth / Né(e) le Geburtsdatum :	<input type="text"/> / <input type="text"/> / <input type="text"/>
Subject / Matière / Fach : .....	
Language / Langue / Sprache : ..... Exam date / Date de l'examen / Prüfungsdatum : .....	

All examinations subjects scripts were anonymized, with the exception of Art and Music. The written part of these examinations also went on the official examination paper, which was scanned. The rest of the parts, preparation and final art work was provided to the correctors in original form. So that the written part could be related to the rest of the parts. However, the marks for all parts and the final commentary was introduced in the on-line correction platform.

## Criteria referenced

All examinations were accompanied by a marking scheme and grid, correction criteria and guidelines and/or suggested answers. These were known to the correctors and served as a benchmark to assess the examinations and award marks, through the forum in the Viatique software.

## Multiple correction and marking: Internal / External

The on-line tools allowed the same script to be corrected by more than one corrector. In our system, every script is corrected twice. A third corrector can be involved if there is a mark disagreement of over 2 points between the two correctors.

The on-line platform also made it possible to make sure that each corrected regularly added a final general mandatory commentary as established in the regulations. To validate the correction of a single script the corrector only needed to have entered the marks for every question and the final commentary, otherwise the validate button would not be active.

## Random allocation of the scripts

On-line correction tools allowed distributing evenly scripts from different schools to different correctors. Before, so as to simplify the logistics, it was normally one corrector who corrected all the scripts from the same class/school.

### **Blind correction**

On-line correction tools allowed scripts to have marking signs, symbols and comments without them being accessible to the second corrector, so that the second correction remained unbiased.

However, all these elements were accessible to the third corrector (in the cases of mark disagreement over 2 marks), the inspectorate and European Baccalaureate Unit.

### **Blended model**

The first correction was still carried out internally by the teacher of the candidate in the European Schools and the Accredited Schools.

The second correction was carried out by a corrector external to the European School system in a correction centre (European Schools) where 1 or 2 days' meetings were organised between the inspectors and the external correctors in order to discuss correction guidelines and practice. Training and assistance on the use of the on-line platform was provided. **Neoptec experts and the European Baccalaureate Unit were also present in the correction centres to support the external correctors and the inspectors during the correction period.**

4 correction centres were open: the European School of Brussels 1 – Uccle, the European School of Brussels 4 – Laeken, the European School of Varese and the European School of Alicante.

- **Alicante** for Spanish LI, LII, LIII, LIV and Art in Spanish. 8 external correctors and 1 inspector were assigned to this centre.
- **Varese** for Italian LI, LII, LIII, LIV and Art in Italian. 7 external correctors and 1 inspector were assigned to this centre.
- **Brussels IV (LAE)** for Mathematics, Physics, Biology and Chemistry. 73 external correctors and 3 inspectors were assigned to this centre.
- **Brussels I (UCC)** for the rest of the subjects. 125 external correctors and 14 inspectors were assigned to this centre.

29 external correctors chose to fully correct their scripts at distance, i.e. entirely from home.

It has to be noted that the scripts from the accredited schools of Brindisi and Heraklion were not part of the on-line process correction. These scripts were corrected through the usual distance correction process.

As from next session, these 2 schools will join the on-line correction process as well.

### **Retrieving evidence and accessibility to corrected scripts**

Corrected scripts were easily accessible since they are stored in a secured server accessible anytime from anywhere. This also eliminates the difficulty of retrieving documents in case of appeals and especially during periods where many members of the staff in the schools are on holiday.

### **Correctors training**

The on-line correction tools are easy to use. There is an on-line tutorial and a help-line. The electronic tools be web-based so that no software needs to be installed in the correctors' own computers. Still, assistance for correctors and short refresher trainings were provided in the correction centres.

### **Corrector's assessment**

The on-line tools were able to inform on correctors' performance. Analysis of standard deviation on the corrected items or papers was possible.

### **Possibility of moderation**

The on-line tools allow automated recalculation of values either for the whole examination or for individual questions as a result of the modification of values in the different questions of an examination or due to the cancellation of one or several questions.

### **Monitoring of the correction process**

On-line correction tools allow monitoring and validation of the correction process. They provide immediate access to statistics on performance.

## **1.4 Communication**

This year, to support communication, the European Baccalaureate could also be followed through the social media.

## **2. Assurance Quality of the 2017 European Baccalaureate session**

### **2.1 The European Baccalaureate Subjects**

The European Baccalaureate examinations are elaborated under the responsibility of the secondary cycle inspectors listed above, assisted by teams of external experts. For the 2017 EB session, 154 experts participated in the elaboration of 149 main examination papers and 160 reserve papers. Each examination paper was accompanied by suggested answers, assessment criteria, marking instructions and marking grid.

The Board of Inspectors (Secondary) may decide to submit written European Baccalaureate examinations to external auditing in order to add a further layer of quality assurance.

The external auditing of the examination papers is performed by independent experts with experience in the field of assessment. These experts are proposed by the Chairman of the European Baccalaureate Examining Board.

For the European Baccalaureate session of 2017, the examination papers of Biology, Chemistry, Mathematics 3P, Mathematics 5P, Physics and L3 German were audited externally and were found fit for purpose.

### **2.2 Quality control of the European Baccalaureate examinations proceedings**

Quality control of the written and oral examinations in the 21 participating schools was carried out by the Vice-Chairmen. In order to supervise the proceedings, the Vice-Chairmen visited the assigned examination centers for up to 2 days during the written examinations and for a maximum of 4 days per center throughout the oral examinations' period. This year the supervision of the examination centers was distributed as follows:

Schule / School / École	Die stellv. Vorsitzenden und Qualitätskontrolle / The Vice-Chairmen and Quality Control / Les Vice-Présidents et Contrôle de la Qualité
▶ALICANTE	Ms Lynda O'TOOLE, Ms Anna-Anca PETRACHE
▶BERGEN	Mr George MIFSUD
▶BRUSSELS 1	Ms Margarita KALOGRIDOU, Mr Konrad LESZCZYŃSKI, Ms Silvia KANTCHEVA
▶BRUSSELS 2	Mr Alex COENEN, Ms Zsuzsanna NYIRO
▶BRUSSELS 3	Ms Els VERMEIRE, Ms Karin NILSSON
▶BRUSSELS 4	Mr Lars DAMKJAER, Ms Karin ECKERSTORFER
▶CULHAM	Ms Maria José PÉREZ BLANCO, Mr Javier GARRALÓN BARBA
▶FRANKFURT	Ms Violeta VALIUŠKEVIČIENĖ
▶KARLSRUHE	Ms Maie KITSING
▶LUXEMBOURG 1	Ms Jana HANDZELOVA, Ms Olita ARKLE
▶LUXEMBOURG 2	Ms Mojca POZNAHOVIČ-JEZERSEK, Mr Luc LOUYS
▶MOL	Ms. Linde van den BOSCH
▶MUNICH	Ms Olga DRÁPALOVÁ
▶VARESE	Ms Tuulamarja HUISMAN
▶*BRINDISI	Ms. Linde van den BOSCH
▶*HELSINKI	Ms. Helena COELHO
▶*HERAKLION	Ms Jasna ANIČIĆ
▶*MANOSQUE	Mr Dominique WILLÉ, Mr Luc LOUYS
▶*PARMA	Ms Diana SACCARDO
▶*RHEINMAIN	Mr Loizos ANASTASIADES
▶*STRASBOURG	Mr Max WOLFF

### 2.3 Inspectors responsible for the different subjects

Subject	Language	Inspector
ANCIENT GREEK		Ms Margarita KALOGRIDOU
ART		Ms Karin NILSSON
BIOLOGY		Mr Max WOLFF
CHEMISTRY		Mr Alex COENEN
ECONOMICS		Ms Maria José PÉREZ BLANCO
GEOGRAPHY		Ms Olga DRÁPALOVÁ
HISTORY		Ms Helena COELHO
LANGUAGE 1  LANGUAGE I	BG	Ms Silvia KANTCHEVA
	CS	Ms Olga DRÁPALOVÁ
	DA	Mr Lars DAMKJAER
	DE	Mr Stefan WALZ & Ms Karin ECKERSTORFER
	EL	Ms Margarita KALOGRIDOU
	EN	Ms Moyra HADLEY
	ES	Mr Javier GARRALÓN BARBA
	ET	Ms Maie KITSING
	FI	Ms Tuulamarja HUISMAN
	FR	Mr Dominique WILLÉ
	HR	Ms Jasna ANIČIĆ
	HU	Ms Zsuzanna NYÍRÖ
	IT	Ms Diana SACCARDO
	LT	Ms Violeta VALIUŠKEVIČIENĖ
	LV	Ms Olita ARKLE
	MT	Mr George MIFSUD
	NL	Ms Linde VAN DEN BOSCH & Ms Els VERMEIRE
	PL	Mr Konrad LESZCZYŃSKI
	PT	Ms Helena COELHO
	RO	Ms Anca PETRACHE
SK	Ms Jana HANDZELOVÁ	
SL	Ms Mojca POZNAKOVIČ-JEZERSEK	
SV	Ms Karin NILSSON	

Subject	Language	Inspector
LANGUAGE 2, 3, 4 LANGUAGE II, III, IV	DE	Ms Karin ECKERSTORFER & Mr Stefan WALZ
	EL	Ms Margarita KALOGRIDOU & Mr Loizos ANASTASIADES
	EN	Ms Moyra HADLEY & Ms Lynda Ó TOOLE
	ES	Mr Javier GARRALÓN BARBA
	FI	Ms Tuulamarja HUISMAN
	FR	Mr Dominique WILLÉ
	GA	Ms Lynda Ó TOOLE
	IT	Ms Diana SACCARDO
	MT	Mr George MIFSUD
	NL	Ms Linde VAN DEN BOSCH & Ms Els VERMEIRE
	PT	Ms Helena COELHO
	SV	Ms Karin NILSSON
LATIN		Mr Dominique WILLÉ
MATHEMATICS 3P & 5P		Mr Luc LOUYS
MUSIC		Mr Stefan WALZ
OTHER NATIONAL LANGUAGE	FI	Ms Tuulamarja HUISMAN
	GA	Ms Lynda Ó TOOLE
	MT	Mr George MIFSUD
	SV	Ms Tuulamarja HUISMAN
PHILOSOPHY		Ms Els VERMEIRE
PHYSICS		Mr Luc LOUYS

### 3. The European Baccalaureate Candidates

#### 3.1 Number of candidates in the 2017 European Baccalaureate session

##### European School of (ES)

1. Alicante.....	(ALI)	68 candidates
2. Bergen.....	(BER)	46 candidates
3. Bruxelles 1 – Uccle.....	(Br 1 - UCC)	228 candidates
4. Bruxelles 2 – Woluwé .....	(Br 2 - WOL)	225 candidates
5. Bruxelles 3 - Ixelles.....	(Br 3 - IXL)	244 candidates
6. Bruxelles 4 – Laeken.....	(BR 4 - LAE)	93 candidates
7. Culham.....	(CUL)	62 candidates
8. Frankfurt.....	(FRF)	86 candidates
9. Karlsruhe.....	(KAR)	70 candidates
10. Luxembourg I.....	(LUX)	190 candidates
11. Luxembourg II.....	(MAM)	154 candidates
12. Mol.....	(MOL)	57 candidates
13. Munich.....	(MUN)	158 candidates
14. Varese.....	(VAR)	75 candidates
		<b>1756 candidates</b>

##### European Accredited Schools (EAS)

1. Liceo Scientifico "Fermi-Monticelli" - European High School Brindisi	(*BRI)	4 candidates
2. European Schooling Helsinki	(*HEL)	23 candidates
3. The School of European Education of Heraklion	(*HER)	9 candidates
4. École internationale de Manosque	(*MAN)	12 candidates
5. Scuola per l'Europa di Parma	(*PAR)	40 candidates
6. The European School RheinMain	(*RHM)	81 candidates
7. École européenne de Strasbourg	(*STR)	68 candidates
		<b>237 candidates</b>

**TOTAL NUMBER OF CANDIDATES EB Session 2017    1993 candidates**

##### Number of examinations

	Candidates	Written Exams	Total Written Exams	Additional Exams	Grand Total Written Exams	Oral Exams	Total Oral Exams	TOTAL EXAMS
<b>ES</b>	1756	5 per cand.	<b>8.780</b>	<b>19</b>	<b>8.799</b>	3 per cand.	<b>5.268</b>	<b>14.067</b>
<b>AES</b>	237	5 per cand.	<b>1.185</b>	<b>0</b>	<b>1.185</b>	3 per cand.	<b>711</b>	<b>1.896</b>
<b>TOTAL</b>	<b>1993</b>		<b>9.965</b>	<b>19</b>	<b>9.984</b>		<b>5.979</b>	<b>15.963</b>

The number of candidates to the 2017 Baccalaureate examination session, by school and by subject, can be seen in the following tables:

SUBJECT	*BRI	*HEL	*HER	*MAN	*PAR	*RHM	*STR	ALI	BER	UCC BR 1	WOL BR 2	IXL BR 3	LAE BR 4	CUL	FRF	KAR	LUX LU 1	MAM LU 2	MOL	MUN	VAR	Grand Total
ANCIENT GREEK																				4		4
ART 4P		2		2	3	25	3	11	7	21	40	25	9	15	8	8	23	14	6	20	7	249
BIOLOGY 4P	2	3	3	3	13	13	16	14	24	61	46	71	22	20	25	8	34	40	18	63	16	515
CHEMISTRY	1	7	3	4	3	10	26	14	4	50	48	64	23	18	16	11	44	24	28	39	17	454
ECONOMICS	1	3	2		5	28	6	7	13	27	36	49	27	11	19	14	41	27	15	28	19	378
GEOGRAPHY 4P		6		1	2	36	4	6	9	19	33	10	11	5	20	31	22	30		25	14	284
HISTORY 4P		6	2	3	6	13	9		4	60	58	56	30	9	16	18	46	33	8	21	12	410
L1	4	23	9	9	40	81	60	68	46	214	207	230	93	54	82	65	181	139	57	152	72	1886
L1 ADV				3			8			14	18	14		8	4	5	9	15		6	3	107
L2	4	23	9	12	35	81	59	63	35	220	214	231	88	54	78	70	160	139	50	146	65	1836
L2 ADV					5		9	5	11	8	11	13	5	8	8	0	30	15	7	12	10	157
L3	2	4		6	19	11	33	27	6	96	66	81	26	18	27	22	58	59	12	38	30	641
L4		2	2		9	4	13	16		33	35	41	10	2	8	7	25	21	2	15	12	257
LATIN	1				1		6				5	6					5					24
MATHS 3P	3	11	7	4	21	70	42	45	23	128	126	152	29	39	54	45	121	85	31	92	37	1165
MATHS 5P	1	12	2	8	19	11	26	23	23	100	99	92	64	23	32	25	69	69	26	66	38	828
MUSIC 4P			1			3					1	5	1	4	6		5	5				31
ONL										5	3										1	9
PHILOSOPHY 4		2			2	11	5	29	6	32	9	27	6	6	11	10	27	19	10	15	6	233
PHYSICS	1	11	5	5	17	8	15	12	19	52	70	53	21	16	16	11	50	36	15	49	16	498
<b>TOTAL</b>	<b>20</b>	<b>115</b>	<b>45</b>	<b>60</b>	<b>200</b>	<b>405</b>	<b>340</b>	<b>340</b>	<b>230</b>	<b>1140</b>	<b>1125</b>	<b>1220</b>	<b>465</b>	<b>310</b>	<b>430</b>	<b>350</b>	<b>950</b>	<b>770</b>	<b>285</b>	<b>791</b>	<b>375</b>	<b>9965</b>
Written exams	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Candidates	4	23	9	12	40	81	68	68	46	228	225	244	93	62	86	70	190	154	57	158	75	1993





### 3.2 Participation in the European Baccalaureate 2017 session by school and by language section

Of the 2006 pupils registered for the European Baccalaureate at the beginning of the 2016-2017 school year, 1993 actually took part in the examinations, 13 pupils having given up their studies in mid-year or during the European Baccalaureate session.

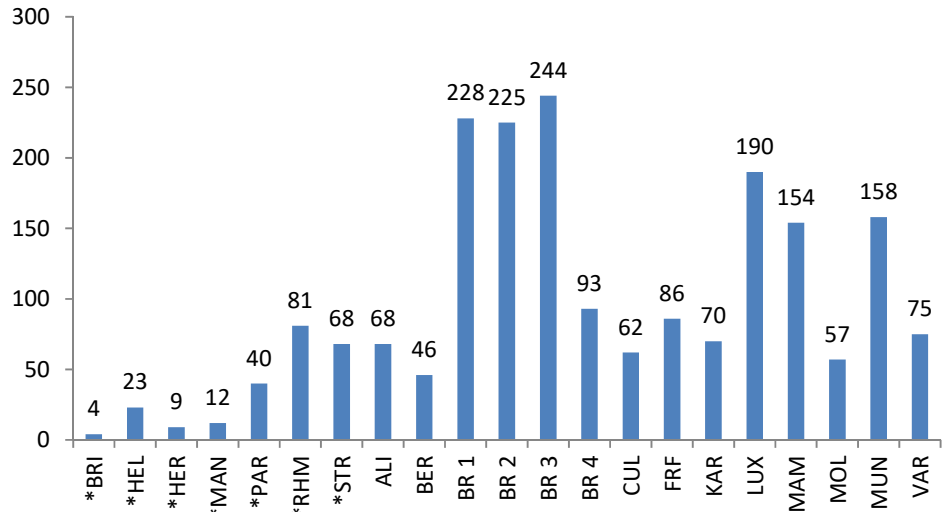
During the written examinations 20 candidates were partially absent due to medical reasons and 5 due to participation in UNED or STEPS Examinations. 12 substitute examinations were organised in June 2017.

Two candidates were allowed to take part in an extraordinary session in September 2017, one of them withdrew a few days before the examinations and therefore only two substitute written examinations were organised accordingly.

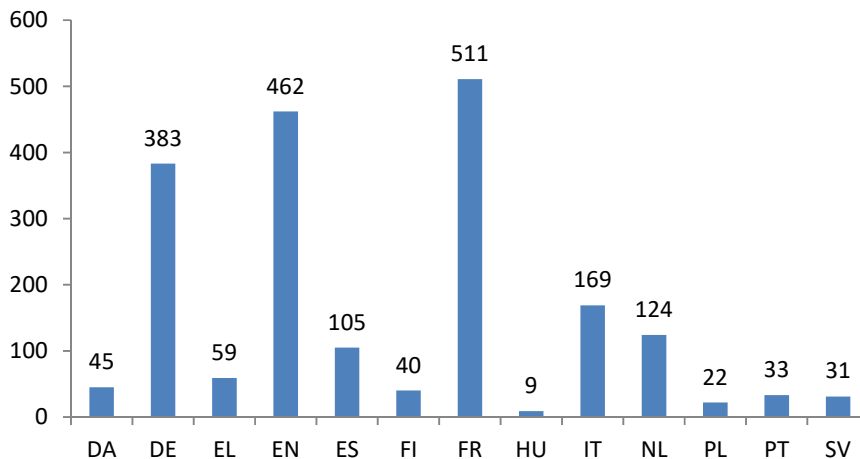
Number of candidates per school - EB 2017

The largest number of European Baccalaureate candidates per school came from the European School of Brussels 3 (244).

The lowest cohort, 4 pupils, belongs to an Accredited Schools, Brindisi (IT).

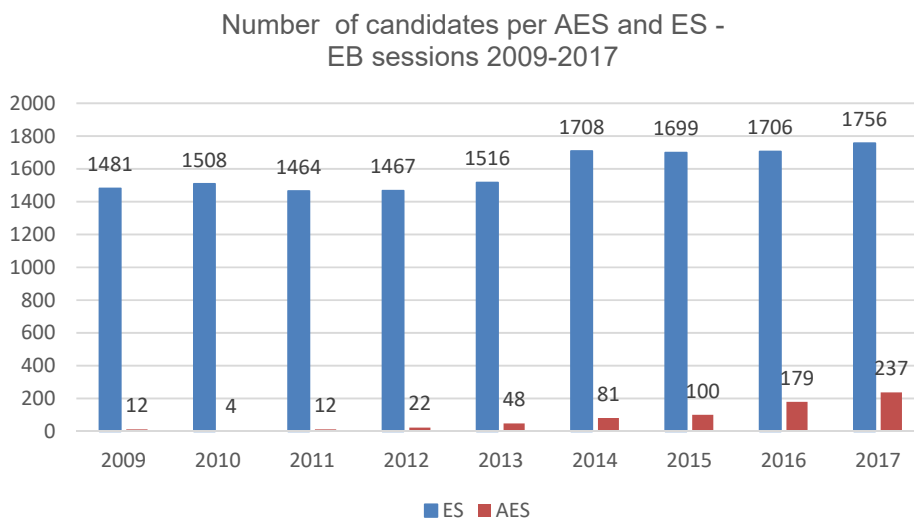
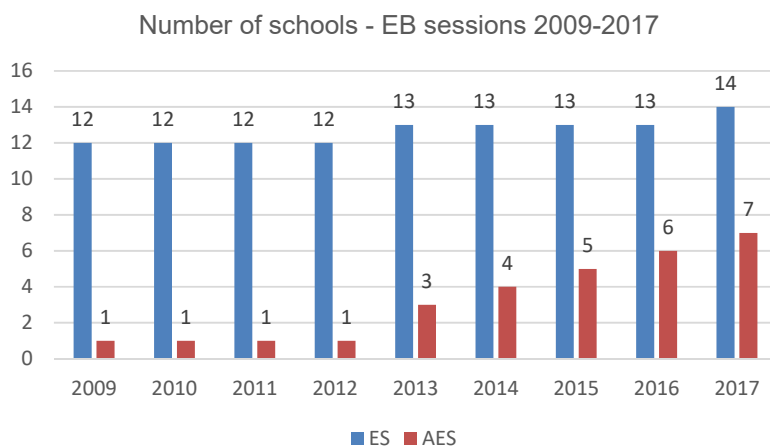
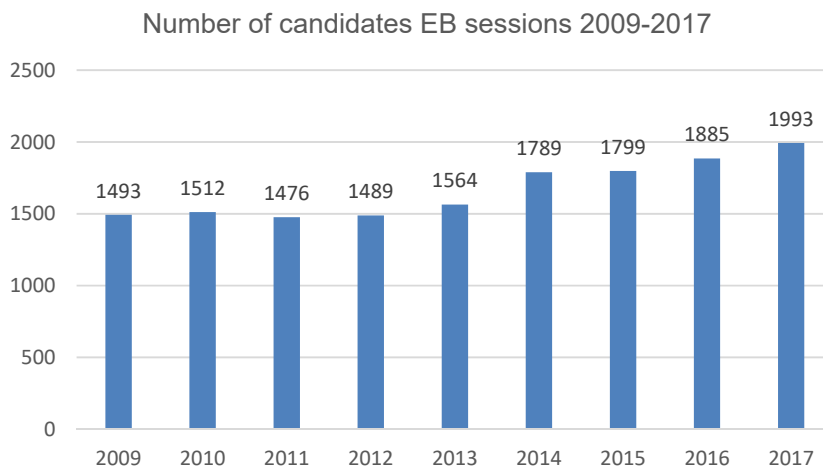


Number of candidates per linguistic section



The largest number of European Baccalaureate candidates per language section can be found in the French language section, with 511 candidates, closely followed by candidates from the English section, 462, and the German section, 383.

### 3.3. Evolution of the number of schools and candidates over the years



Evolution of the AES candidates (base 100 in 2009, year of 1<sup>st</sup> AES in EB session)

Sessions	ES candidates	AES candidates	Total	Evolution of the AES candidates (base 100 in 2009)
2009	1481	12	1493	100
2010	1508	4	1512	33
2011	1464	12	1476	100
2012	1467	22	1489	183
2013	1516	48	1564	400
2014	1708	81	1789	675
2015	1699	100	1799	833
2016	1706	179	1885	1492
2017	1756	237	1993	1975
	14305	695	15000	

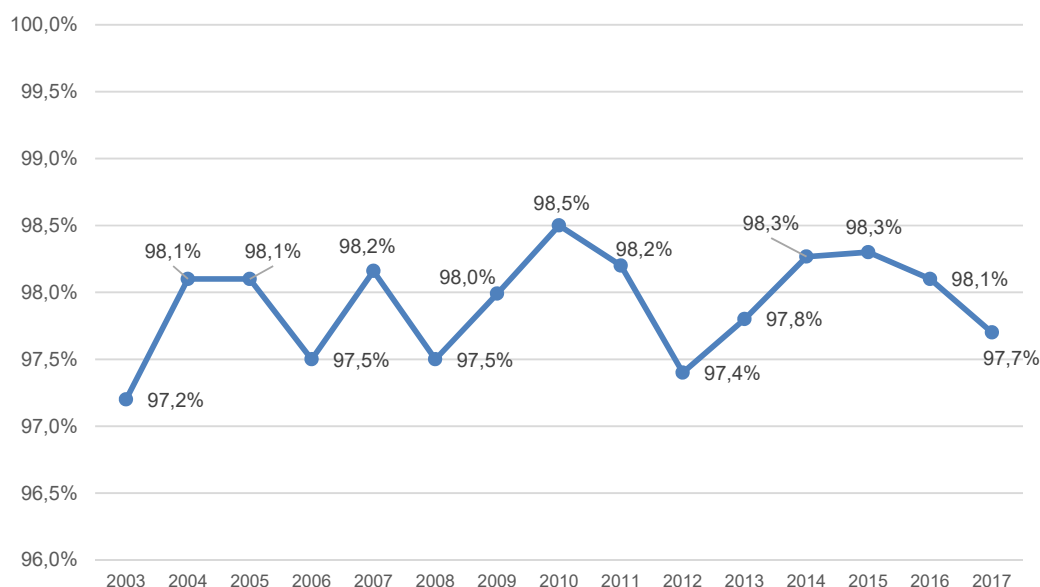
In 9 sessions time, the number of AES candidates was multiplied by nearly 20.

## 4. General Results of the European Bacculaureate 2017 session

EB session 2017 - participants	
Registered	2006
Abandoned	13
Participated	<b>1993</b>
Passed	1948
Failed	45
Success rate	<b>97.74%</b>
Fail rate	<b>2.26%</b>

European Bacculaureate 2017 – Averages	
Overall Average for the Preliminary Mark	<b>79.93</b>
Overall Average for Written Examinations	<b>73.93</b>
Overall Average for Oral Examinations	<b>81.86</b>
Overall Average for the Final Mark	<b>78.12</b>

### 4.1 Success rate over the last 15 years



A comparison of success rates over the last 15 years shows that the European Bacculaureate situation stays stable.

As from session 2003, the variation in success rate never went over  $\pm 0.7$ , with a general average over the 18 last sessions of 97.9%.

### Success rate EB session 2017

School	Candidates	Passed	Success Rate
*BRI	4	3	75.00 %
*HEL	23	22	95.65 %
*HER	9	9	100 %
*MAN	12	12	100 %
*PAR	40	40	100 %
*RHM	81	79	97.53 %
*STR	68	61	89.71 %
ALI	68	68	100 %
BER	46	46	100 %
BR 1	228	226	99.12 %
BR 2	225	216	96.00 %
BR 3	244	238	97.54 %
BR 4	93	91	97.85 %
CUL	62	62	100 %
FRF	86	86	100 %
KAR	70	70	100 %
LUX	190	186	97.89 %
MAM	154	151	98.05 %
MOL	57	55	96.49 %
MUN	158	153	96.84 %
VAR	75	74	98.67 %
	<b>1993</b>	<b>1948</b>	<b>97.74 %</b>

### Success rate per type of school:

School	Number of candidates	%	Passed	Failed	Success rate
ES	1756	88.11%	1722	34	98.06%
AES	237	11.89%	226	11	95.36%
	<b>1993</b>		<b>1948</b>	<b>45</b>	<b>97.74%</b>

### Success rate by language section

The table on the right shows the success rate in the different language sections. This year, the success rates by language section ranged between 94% and 100%. Due to small numbers of bachelors in some sections, the results are not always statistically comparable.

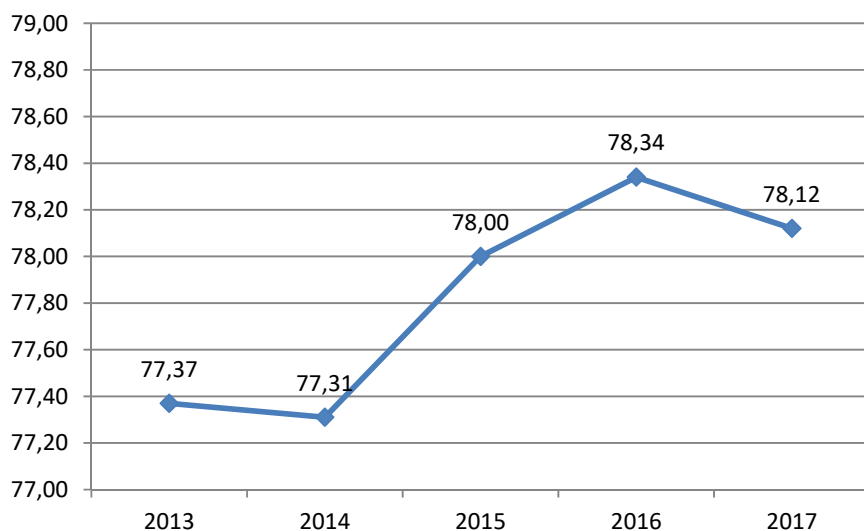
Language Section	Candidates	Passed	Success Rate	Schools involved
DA	45	45	100%	2
DE	383	373	97%	15
EL	59	59	100%	3
EN	462	455	98%	21
ES	105	103	98%	4
FI	40	39	98%	3
FR	511	492	96%	17
HU	9	9	100%	1
IT	169	168	99%	8
NL	124	122	98%	7
PL	22	22	100%	2
PT	33	31	94%	2
SV	31	30	97%	2
	<b>1993</b>	<b>1948</b>	<b>97.74%</b>	

## 4.2 Final marks and averages

The final overall European Baccaureate mark is expressed out of one hundred (100) and is accurate to two decimal places.

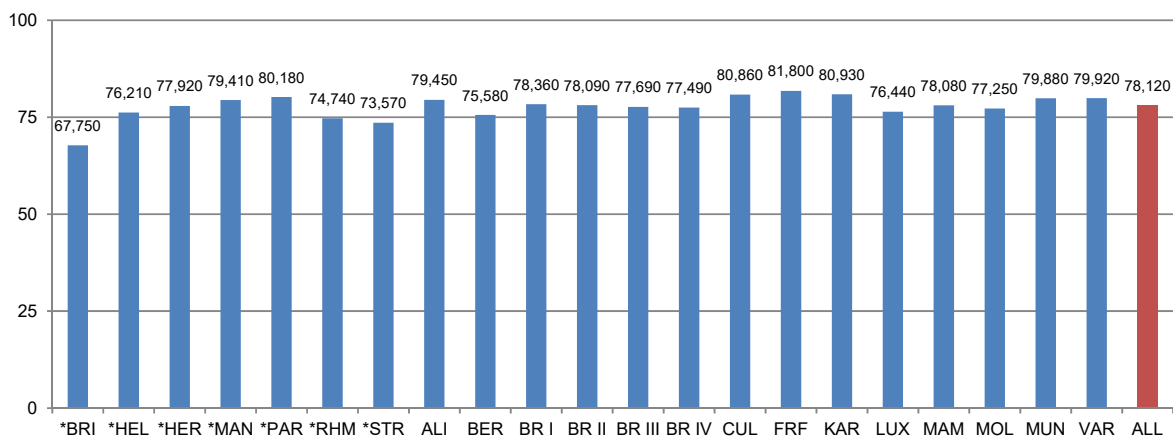
For all the candidates who participated in the 2017 session of the European Baccaureate, the average Final Mark amounted to 78.12.

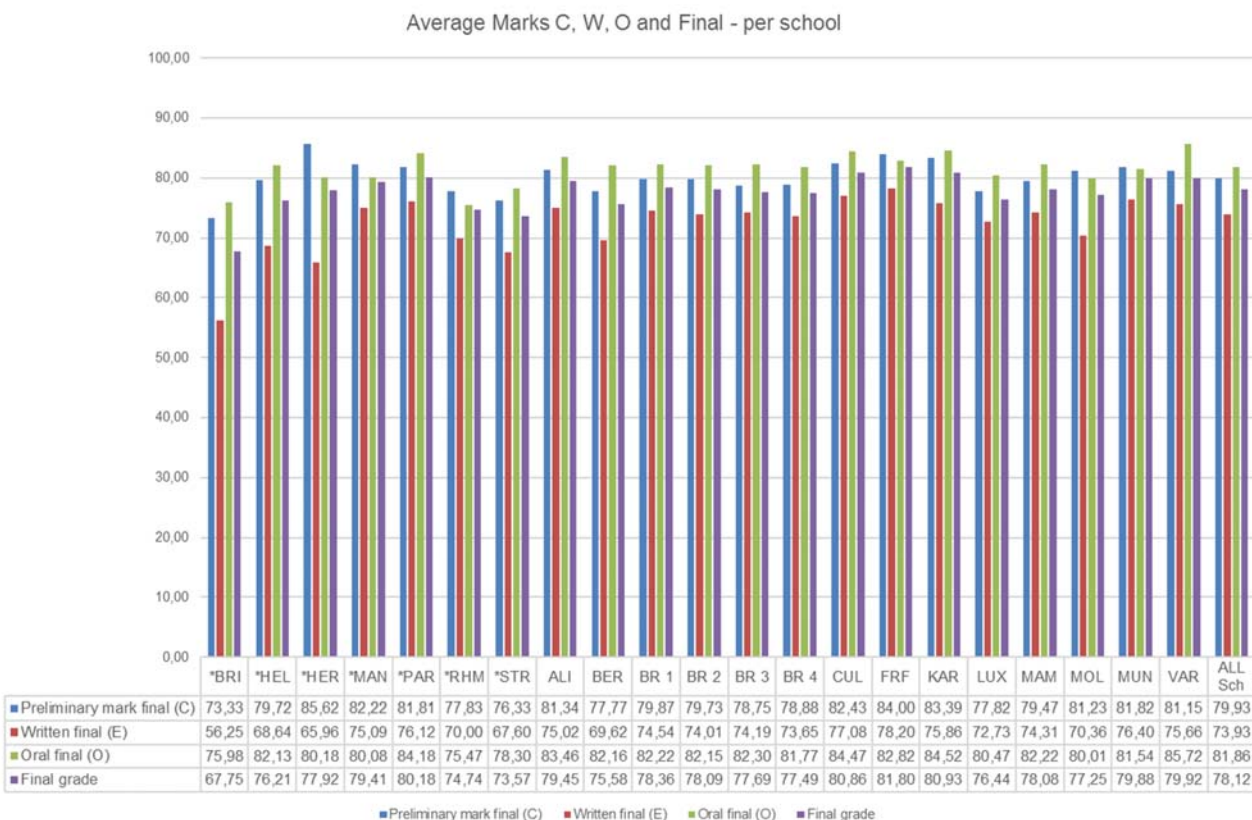
Overall average of past five years



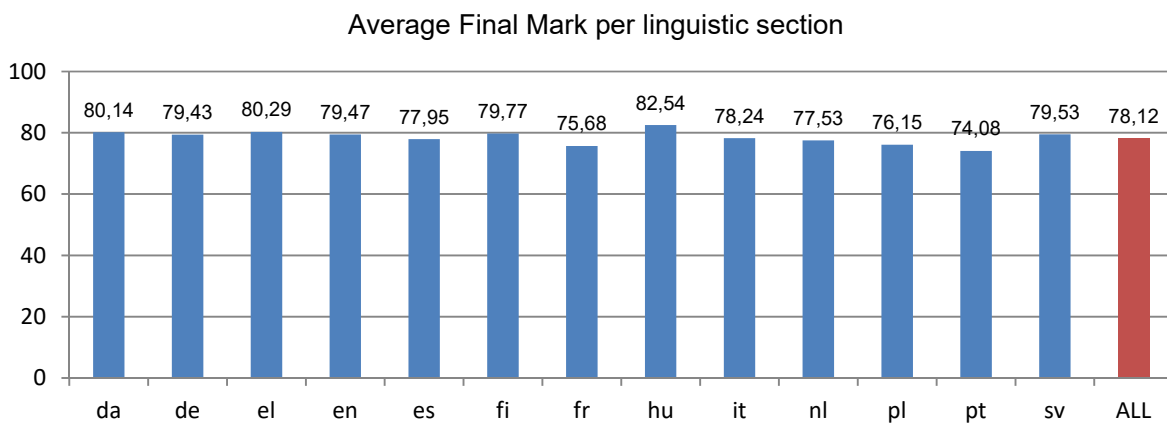
This year the average Final Mark ranged between 67.75 and 81.80 throughout schools:

Final mark average per school





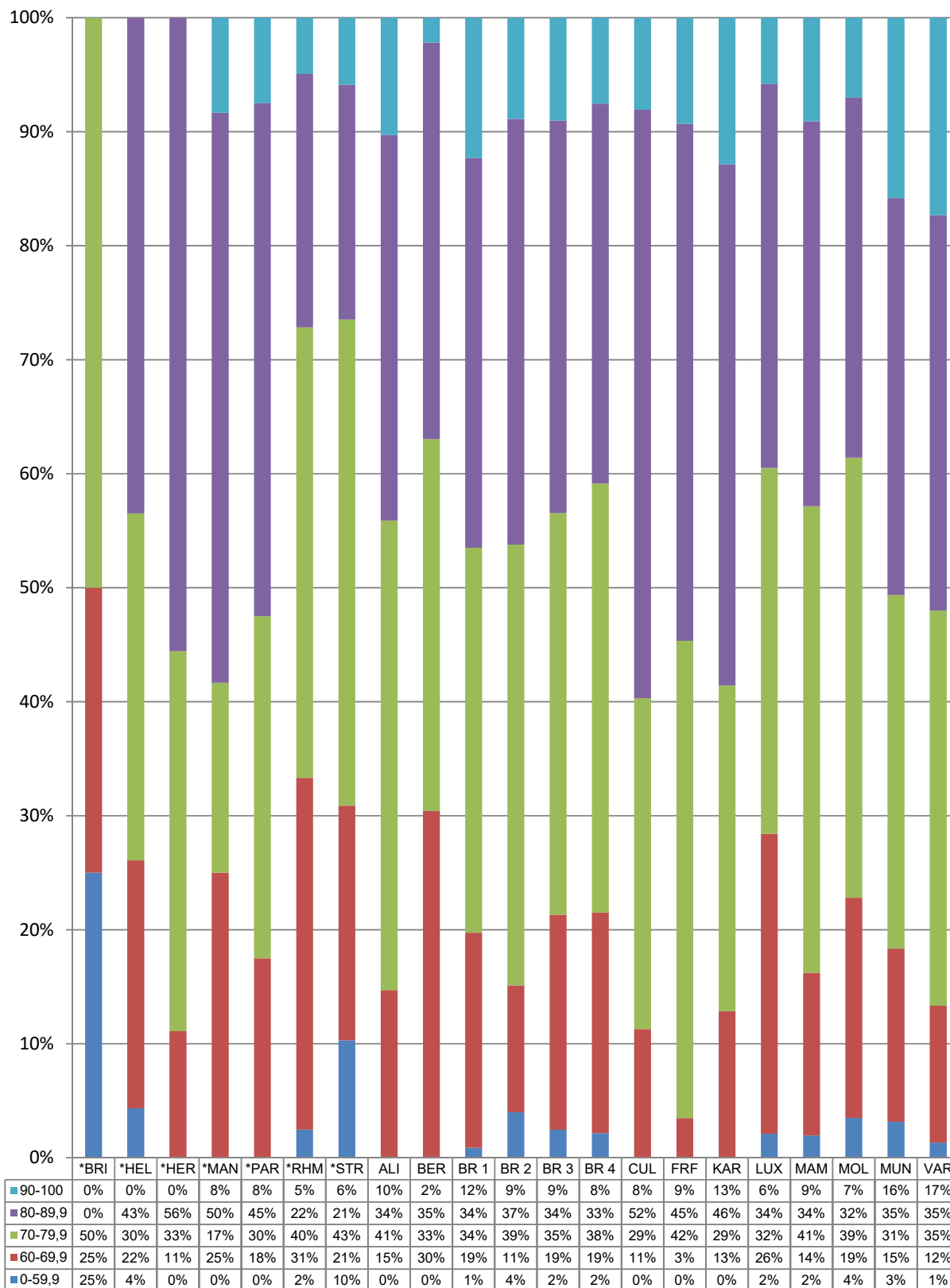
Throughout the Language Sections the average Final Mark ranged between 74.08 and 82.54. Small number of candidates in certain sections doesn't allow the average to be regarded as statistically significant.



Number of candidates per linguistic section

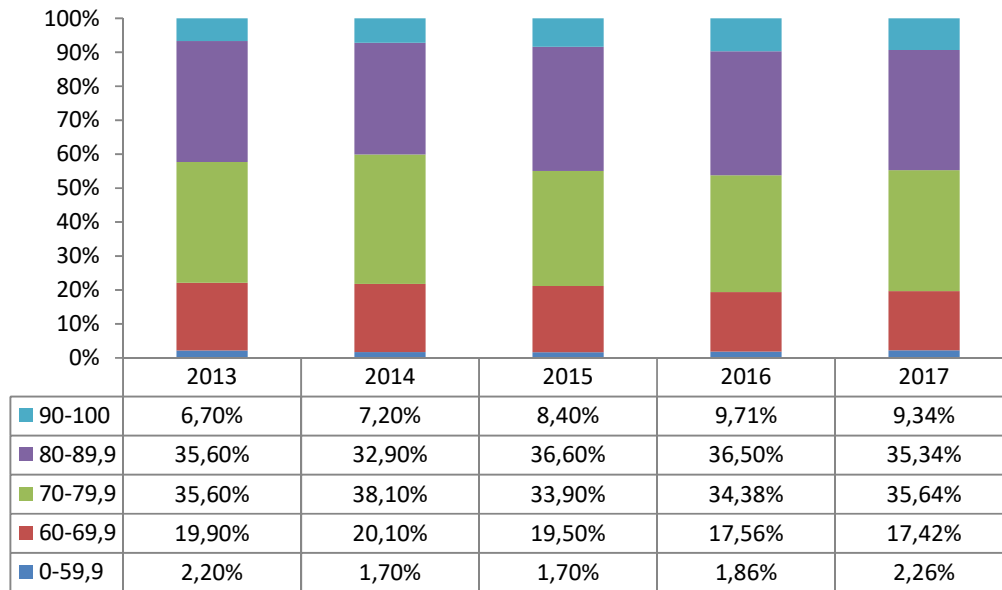
da	de	el	en	es	fi	fr	hu	it	nl	pl	pt	sv	ALL
45	383	59	462	105	40	511	9	169	124	22	33	31	1993

The following table shows the distribution of Final Marks, in %, in the different schools:





### Breakdown of final results throughout the past five years



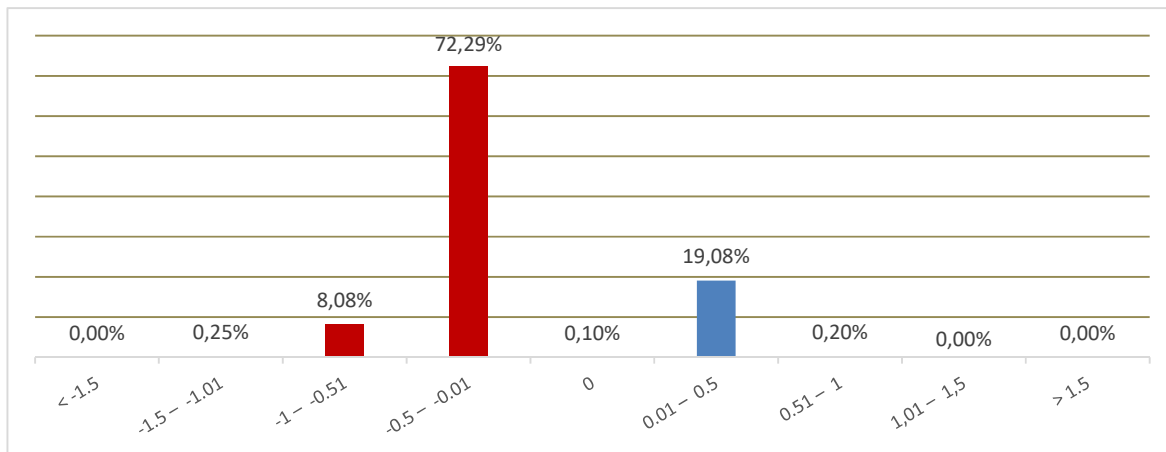
### 4.3 The Preliminary Marks

The preliminary mark (C mark) is made up of the following:

- Class marks (A marks) : They will account for 20 marks out of 50
- Part examination marks (B marks): They will account for 30 marks out of 50.

#### 4.3.1 Preliminary marks and Final marks

The graph below shows **differences between the Final Mark and the Preliminary Mark** for all pupils who took the European Bacculaureate. A negative difference means that the Preliminary Mark is higher than the Final Mark, and vice-versa.



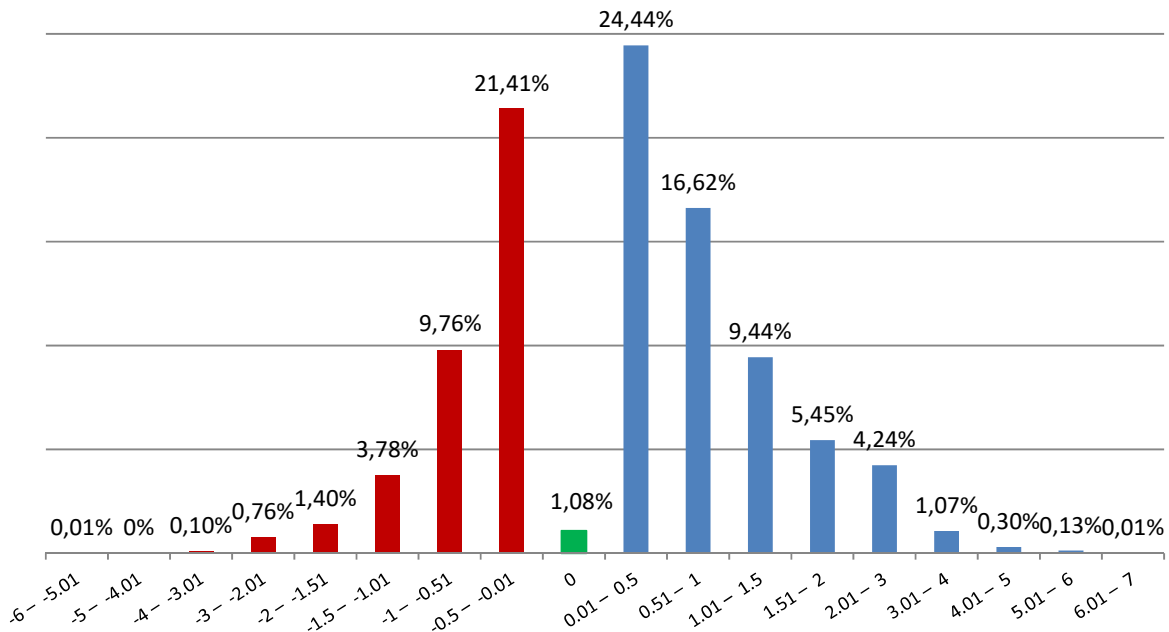
**Preliminary Mark is higher (80.6%)**

**Preliminary Mark is lower (19.3%)**

80.6% of the candidates got a higher Preliminary Mark as compared to their Final Mark. However in 72.3% of the cases the difference was not greater than 0.5. For 91.5% of the candidates, the difference between the Preliminary Mark and Final Mark shows deviation of +/- 0.5.

### 4.3.2 Differences between Preliminary Mark and First Correction

The marks considered in this section only concern the marks given by the teacher.



**The written examination mark is higher than the Preliminary one (37%)**

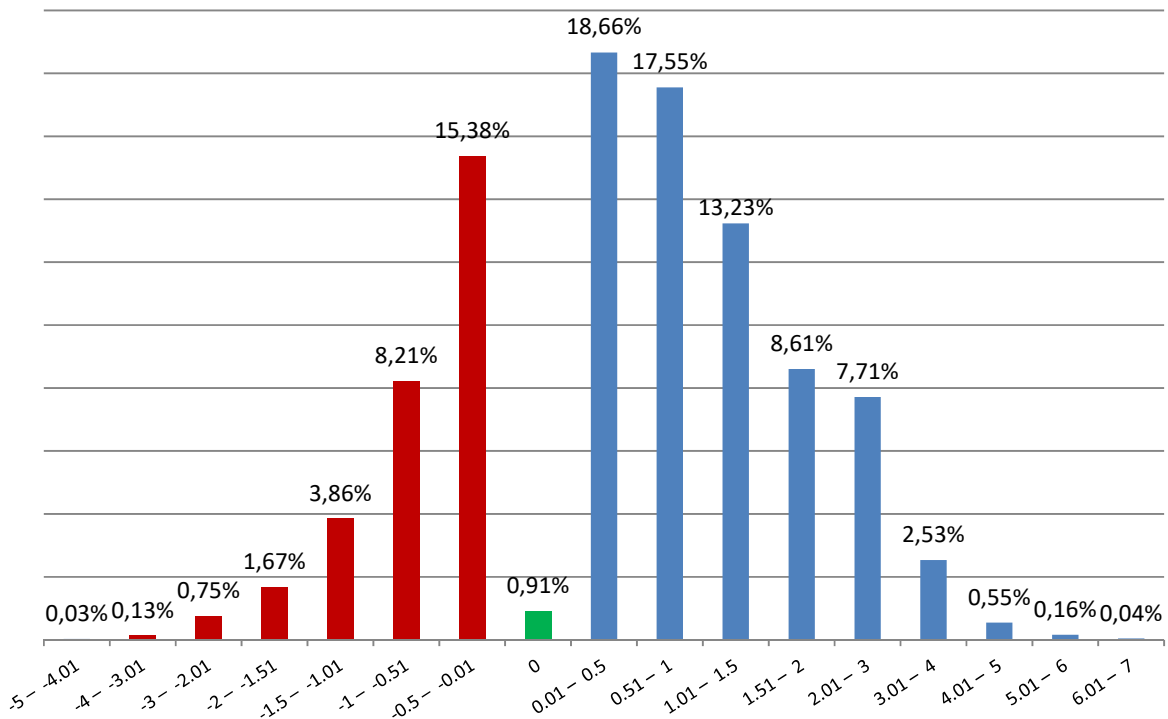
**The Preliminary mark is higher than the written exam mark (62%)**

It can be observed here that the variation of marks is greater. For around 47% of the cases, the variation is +/- 0.5 and for around 73% of the cases the variation is +/- 1.

37% of the pupils receive higher marks from their teachers in the written examinations as compared to the preliminary mark.

In 1.08% of the cases, the pupil obtained the exact same mark at both Preliminary and first marks written examination.

### 4.3.3 Differences between Preliminary Mark and Second Correction



**Second examiner gave a higher mark for the written examination (30%)**

**Teacher gave a higher Preliminary Mark (69%)**

It can be observed here as well that the variation of marks is large. For around 35% of the cases, the variation is +/- 0.5 and for around 60% of the cases the variation is +/- 1.

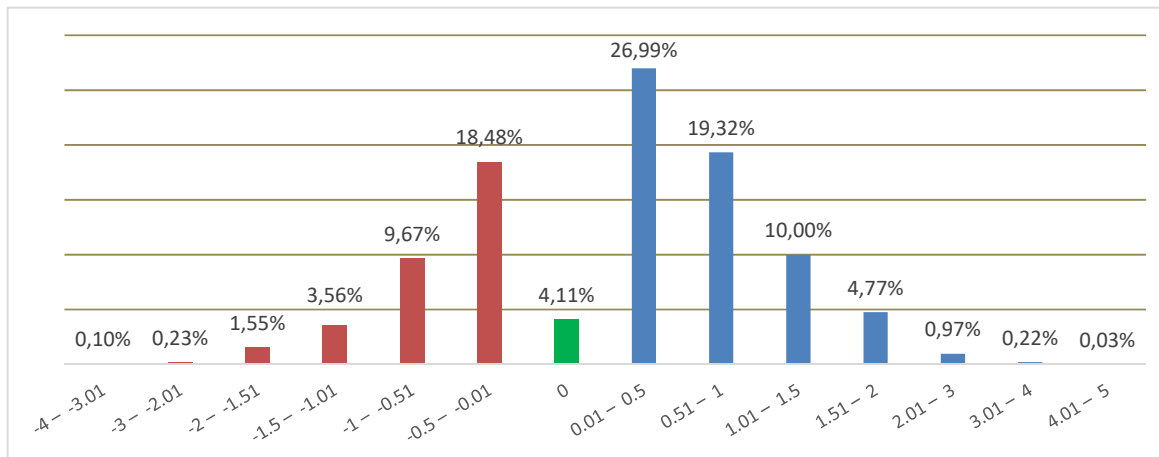
30% of the pupils receive higher marks from the second examiners in the written examinations as compared to the preliminary mark.

In 0.91% of the cases, the pupils obtained the exact same mark at both Preliminary and external examiners' written examination marks.

## 4.4 The Written Correction Marks

### 4.4.1 Differences between First Correction and Second Correction

62.3% of candidates received a higher mark from their first corrector, the teacher.



**Second examiner gave a higher mark for the written examination (33.6%)**

**Teacher gave a higher mark for the written examination (62.3%)**

In 4.11% of the cases, the pupils obtained the exact same marks at both teacher and external examiner's written examination correction.

It can also said that:

In 49.58% of the cases, the pupils achieved a mark, first and second correction, with a variation of +/- 0.5.

In 78.57% of the cases, the pupils achieved a mark, first and second correction, with a variation of +/- 1.

In 92.13% of the cases, the pupils achieved a mark, first and second correction, with a variation of +/- 1.5.

155 third corrections had thus to be performed.

Written mark #3 – Written mark #1 = average of -0.76

Written mark #3 – Written mark #2 = average of +0.75

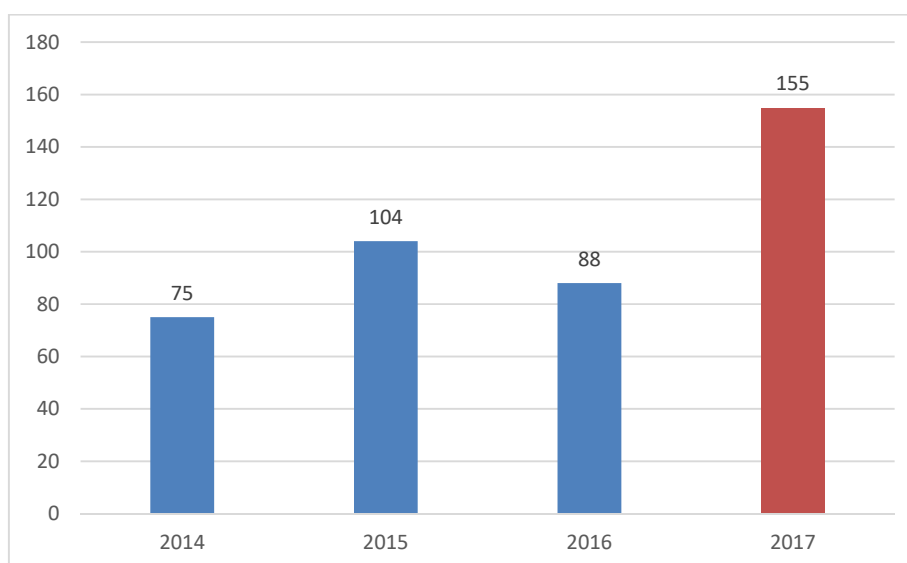
### 4.4.2 Third corrections

Out of 9984 scripts, 155 scripts were submitted to a third correction, i.e. 1.55% of the total scripts corrected.

The tables below indicate the distribution of the 155 third corrections, per school and per subject, with the detail of the language.

School	3rd corrections performed	Total scripts	%	Subject	Languages	3rd corrections performed	Total scripts	%
*BRI	0	20	0,00%	AR4	EN 1, ES 1	2	249	0,80%
*HEL	3	115	2,61%	B4	FR	4	517	0,77%
*HER	3	45	6,67%	CHI	EN	1	464	0,22%
*MAN	0	60	0,00%	ECO	EN	24	378	6,35%
*PAR	2	200	1,00%	GE4	EN	4	284	1,41%
*RHM	4	405	0,99%	GRE		0	4	0,00%
*STR	1	340	0,29%	H4	DE 1, EN 20, FR 2	23	410	5,61%
ALI	9	340	2,65%	L1-	DA 1, DE 9, EL 3, ES 2, FR 32, IT 1, NL 1, SV2	51	1886	2,70%
BER	2	238	0,84%	L1A		0	107	0,00%
BR 1	16	1140	1,40%	L2-	DE 9, EN 2, FR 11	22	1834	1,20%
BR 2	14	1125	1,24%	L2A		0	159	0,00%
BR 3	14	1224	1,14%	L3-	FR	1	641	0,16%
BR 4	13	466	2,79%	L4-	DE	2	257	0,78%
CUL	4	310	1,29%	LAT		0	24	0,00%
FRF	12	430	2,79%	MA3	FR	4	1165	0,34%
KAR	7	350	2,00%	MA5		0	828	0,00%
LUX	13	951	1,37%	MU4		0	31	0,00%
MAM	21	771	2,72%	ONL		0	9	0,00%
MOL	2	287	0,70%	PH4	EN 11, FR 6	17	232	7,33%
MUN	10	790	1,27%	PHY		0	505	0,00%
VAR	5	377	1,33%	Total		155	9984	1,55%
Total	155	9984	1,55%					

Evolution of third corrections – European Bacculaureate sessions 2013-2017



### 4.4.3 Marks disagreement

A written examination script is deemed successful for the pupil if it was granted at least the minimum mark of 6 out of 10 (pass mark).

Marks disagreement designates the very specific case occurring when, for a same script, one examiner considers the script as being in line with the correction criteria pass mark, whereas the other examiner judges it as insufficient and not in compliance with the pass mark criteria.

When comparing the written examination marks given by the teachers / first correctors, and external examiners / second correctors, for the 9984 scripts of the EB session 2017, the following can be observed:

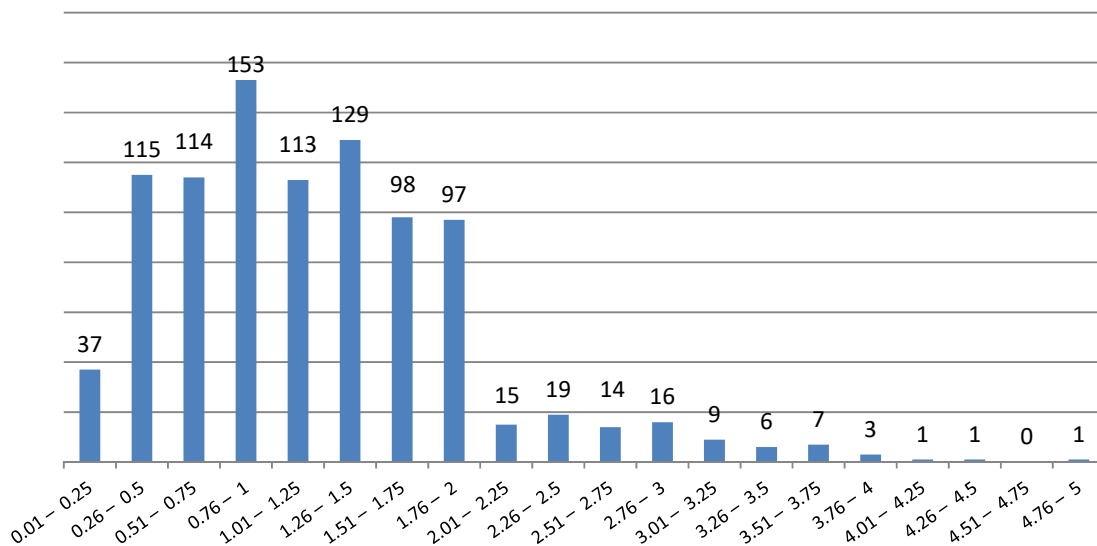
	Number of scripts		Third corrections involved (155)				
	number of scripts	%	number of scripts	%			
Teacher gave 6 or more	8578	85,92%	128	1,49%			
External Examiner gave 6 or more	8206	82,19%	78	0,95%			
Teacher gave 5,99 or less	1406	14,08%	27	1,92%			
External Examiner gave 5,99 or less	1778	17,81%	77	4,33%			
					<b>Average W1</b>	<b>Average W2</b>	<b>Average W3</b>
<b>Teacher passed</b> the script, external examiner failed the script	660	6,61%	71	10,76%	6,65	5,34	6,18
Teacher failed the script, <b>external examiner passed</b> the script	288	2,89%	21	7,29%	5,39	6,51	6,43

For 948 scripts, i.e. 9.5% of the total scripts, a mark disagreement was observed during last session.

In 92 cases was the difference between the two marks higher than 2 marks.

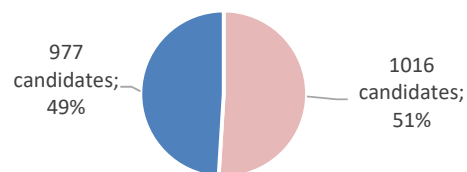
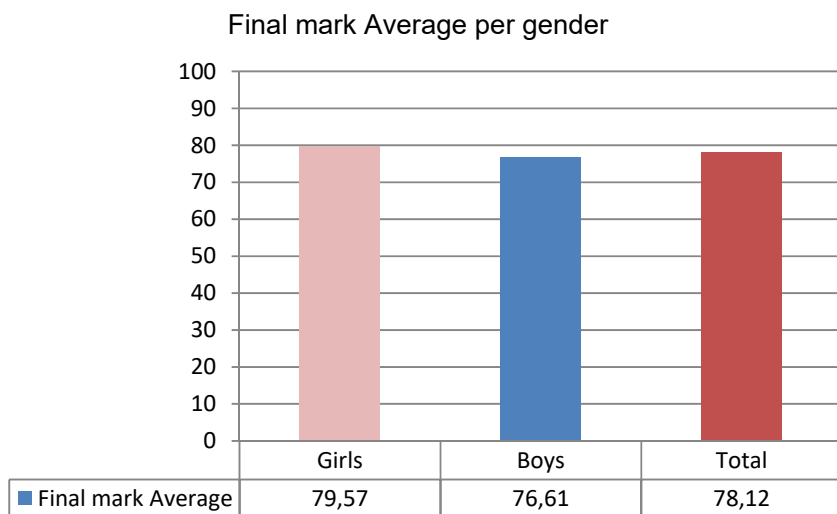
9.7% of the 948 disputed scripts were thus submitted to a third correction.

Absolute value of difference between first and second correction for mark disagreement (948 scripts)

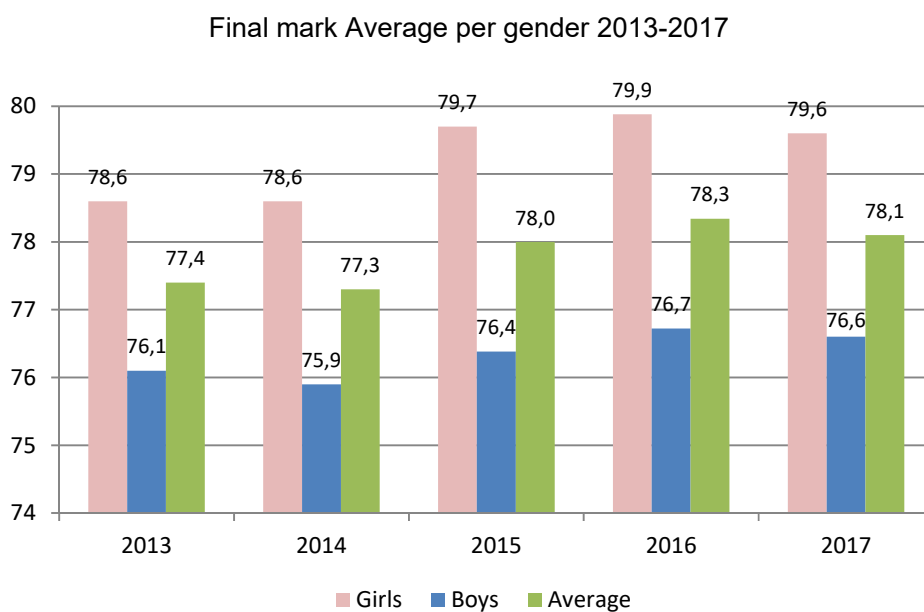


### 4.5 Gender differences

Female candidates score a higher Final Mark than the general average, as it can be observed in this graph.

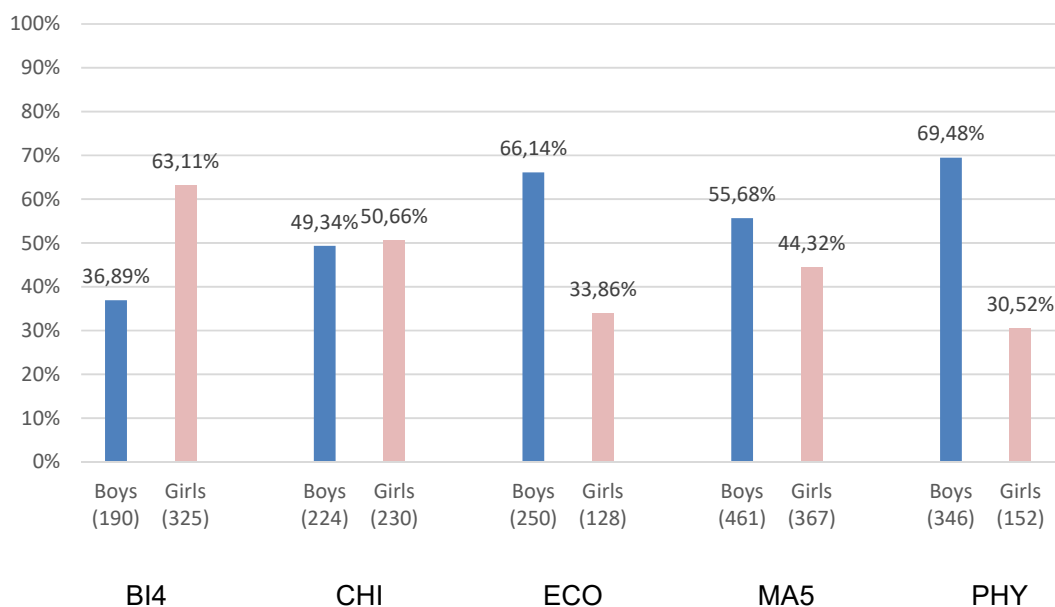


This is a general trend in the last 5 years:



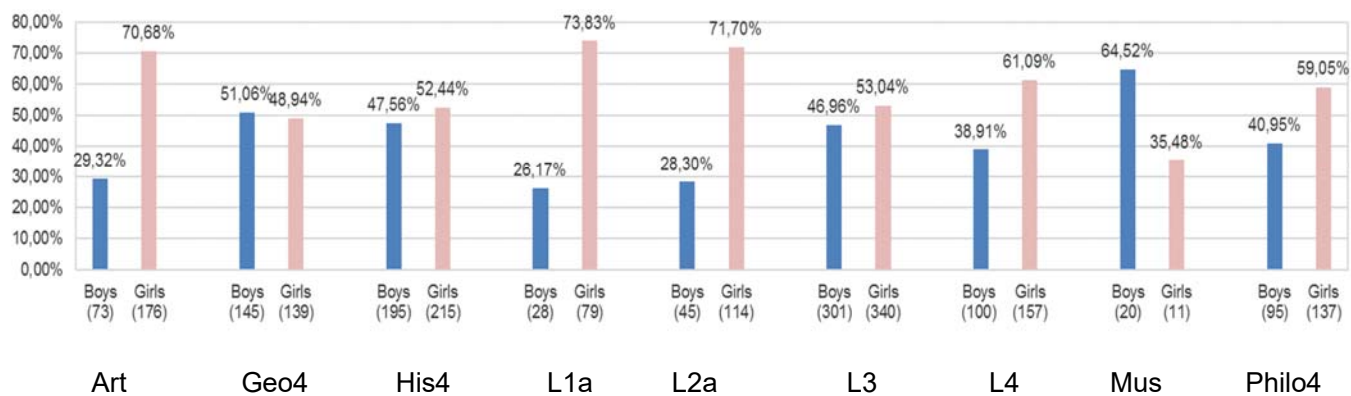
Here below, the choices of options and written average, per gender:

Subject	Gender	Number of candidates	Written Average	Percentage
<b>Biology 4P</b>	Boys	190	6,78	36,89%
	Girls	325	7,00	63,11%
	ALL	515	6,92	
<b>Chemistry</b>	Boys	224	7,04	49,34%
	Girls	230	7,37	50,66%
	ALL	454	7,21	
<b>Economics</b>	Boys	250	7,06	66,14%
	Girls	128	7,29	33,86%
	ALL	378	7,14	
<b>MA5</b>	Boys	461	7,12	55,68%
	Girls	367	7,11	44,32%
	ALL	828	7,11	
<b>Physics</b>	Boys	346	7,31	69,48%
	Girls	152	7,79	30,52%
	ALL	498	7,45	



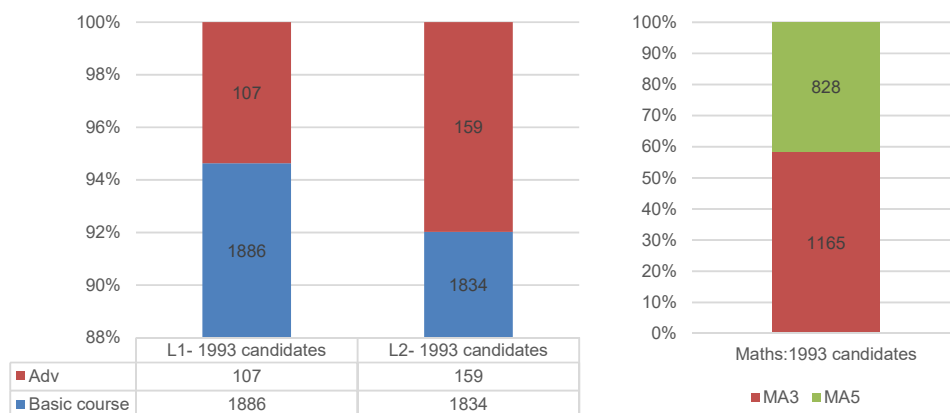


Subject	Gender	Number of candidates	Written Average	Percentage
<b>ART</b>	Boys (73)	73	8,31	29,32%
	Girls (176)	176	8,45	70,68%
		249	8,41	
<b>Geography 4P</b>	Boys (145)	145	6,67	51,06%
	Girls (139)	139	6,85	48,94%
		284	6,76	
<b>History 4P</b>	Boys (195)	195	7,11	47,56%
	Girls (215)	215	7,44	52,44%
		410	7,28	
<b>L1 Adv</b>	Boys (28)	28	7,76	26,17%
	Girls (79)	79	7,93	73,83%
		107	7,88	
<b>L2 Adv</b>	Boys (45)	45	7,95	28,30%
	Girls (114)	114	8,14	71,70%
		159	8,09	
<b>L3-</b>	Boys (301)	301	8,13	46,96%
	Girls (340)	340	8,21	53,04%
		641	8,17	
<b>L4-</b>	Boys (100)	100	8,07	38,91%
	Girls (157)	157	8,47	61,09%
		257	8,32	
<b>MU4</b>	Boys (20)	20	7,37	64,52%
	Girls (11)	11	7,98	35,48%
		31	7,59	
<b>Philo 4P</b>	Boys (95)	95	7,86	40,95%
	Girls (137)	137	7,87	59,05%
		232	7,86	

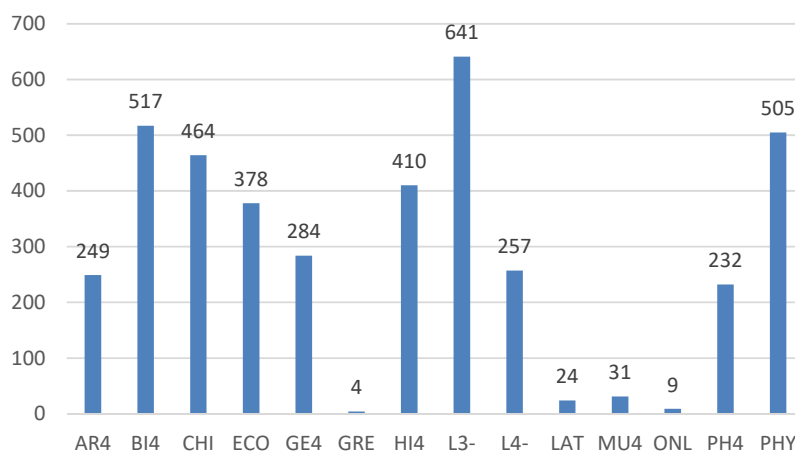


## 4.6 European Baccalaureate examinations and most popular written and oral examination options

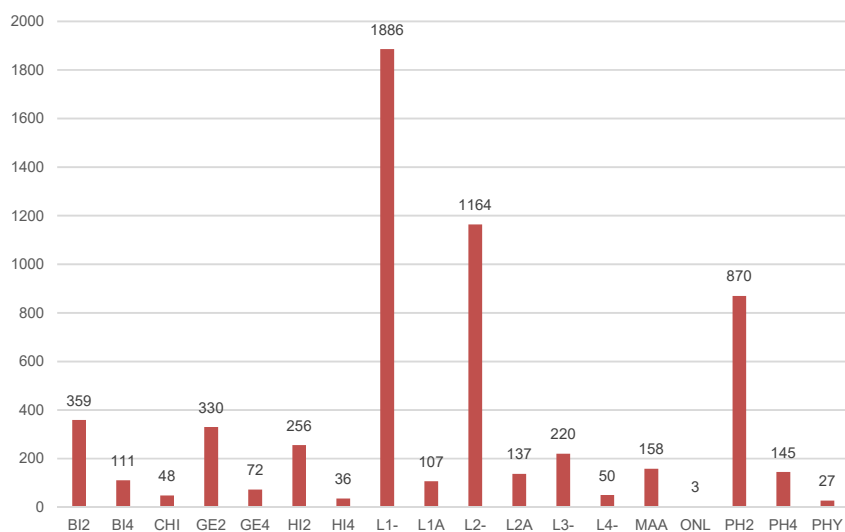
### Compulsory Written examinations – 1993 candidates



### Option written examinations – 4005 scripts (1993 x 2 options = 3986 + 19 add. exams)



### Oral examinations – 5979 orals (1993 x 3 = 5979 oral examinations)



### 4.6.1 Most popular written choices

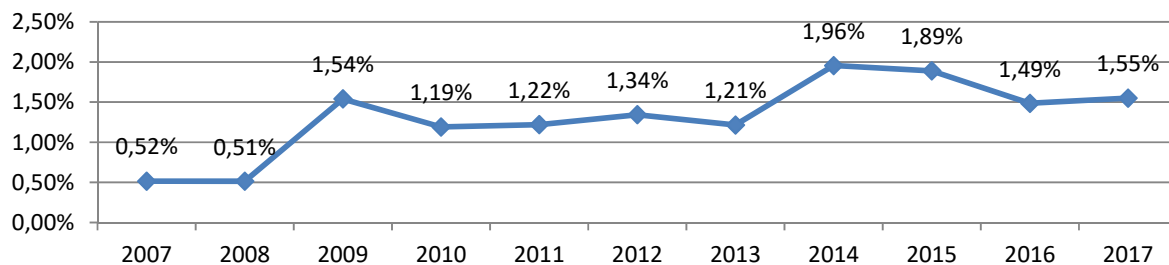
The five most chosen options for the written examinations this year were: Language III (English LIII being the most popular choice: 242 candidates), Biology, Physics, Chemistry and History 4P.

Options of written examinations	Number of candidates BAC 2015	Percentage of candidates BAC 2015	Number of candidates BAC 2016	Percentage of candidates BAC 2016	Number of candidates BAC 2017	Percentage of candidates BAC 2017
LANGUAGE III	593	32.96%	636	33.74%	<b>641</b>	<b>32.15%</b>
BIOLOGY 4	512	28.46%	469	24.88%	<b>517</b>	<b>25.93%</b>
PHYSICS	494	27.46%	502	26.63%	<b>505</b>	<b>25.33%</b>
CHEMISTRY	453	25.18%	471	24.99%	<b>464</b>	<b>23.27%</b>
HISTORY	364	20.23%	312	16.55%	<b>410</b>	<b>20.56%</b>

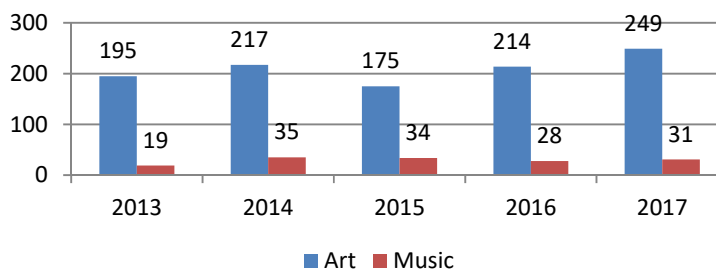
Among less popular written examinations, there is Art and Music.

Nevertheless, the number of written examinations in Musical education is slowly growing throughout the years.

MU4 written

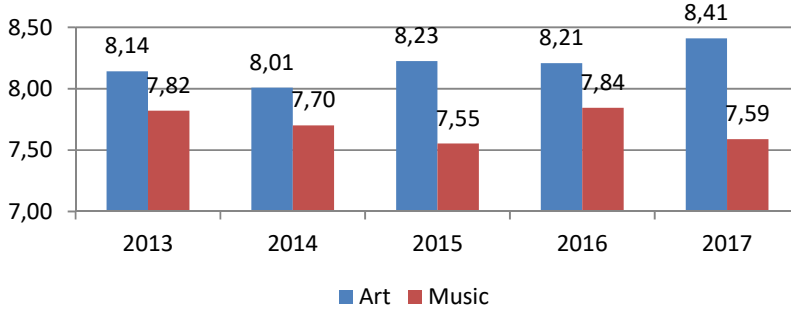


Art and Music : number of candidates 2013-2017



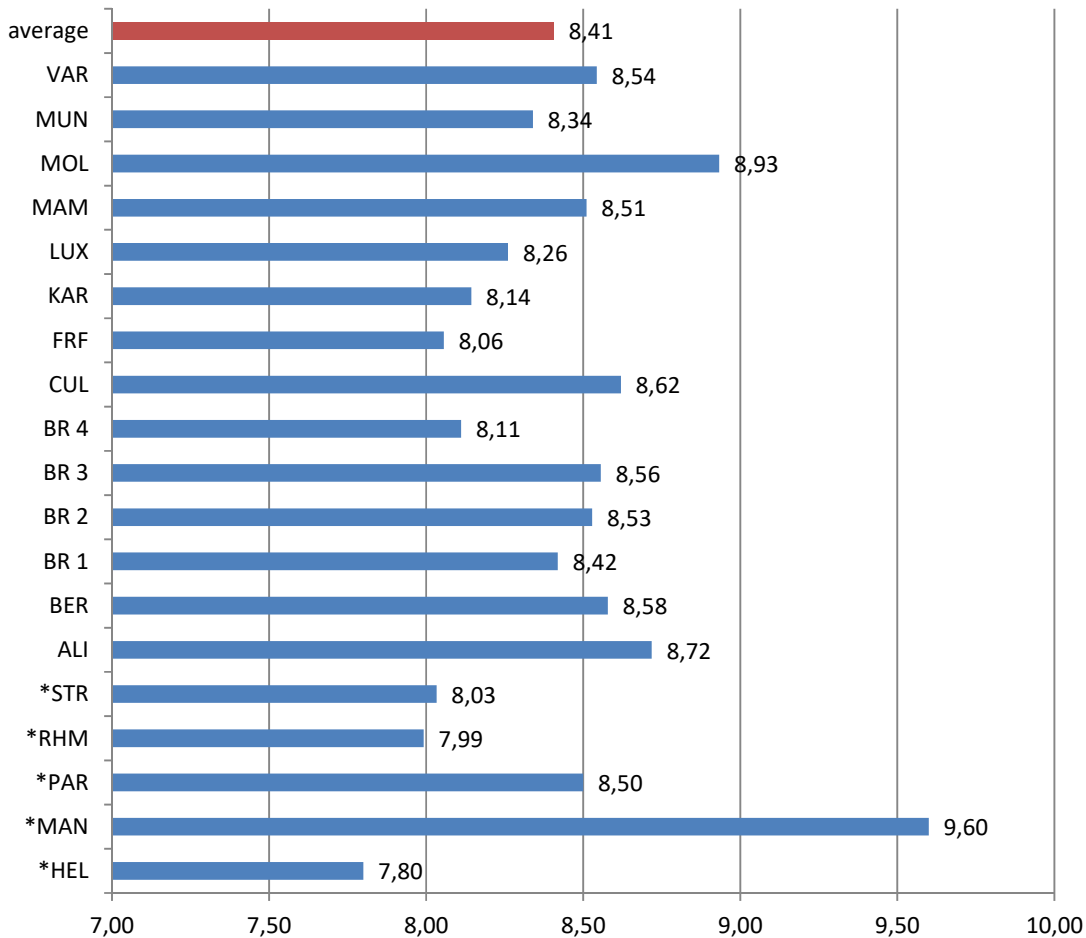
Art and Music Education candidates are in progress, as can be seen in the graph on the right.

### Art and Music: evolution of the written average

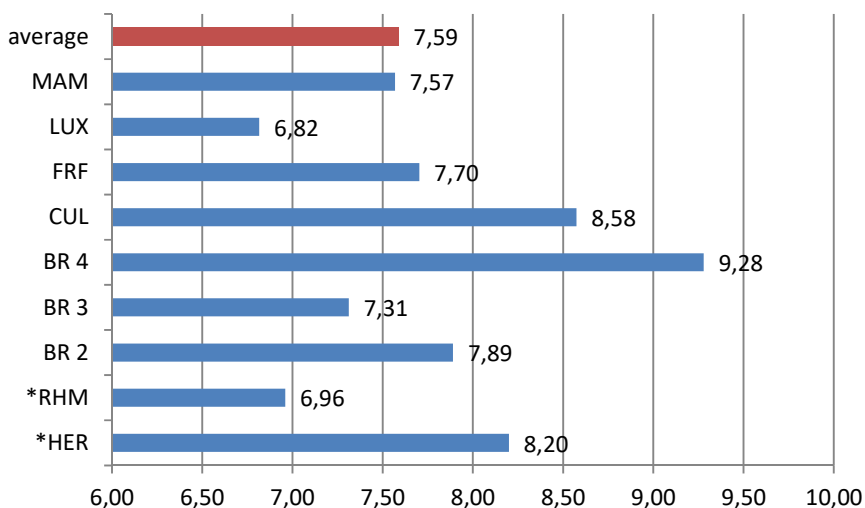


The averages in these disciplines are generally increasing. They tend to show that pupils choose the subjects out of passion, talent and competence, not just by mere curiosity or simple need to complete their schedule.

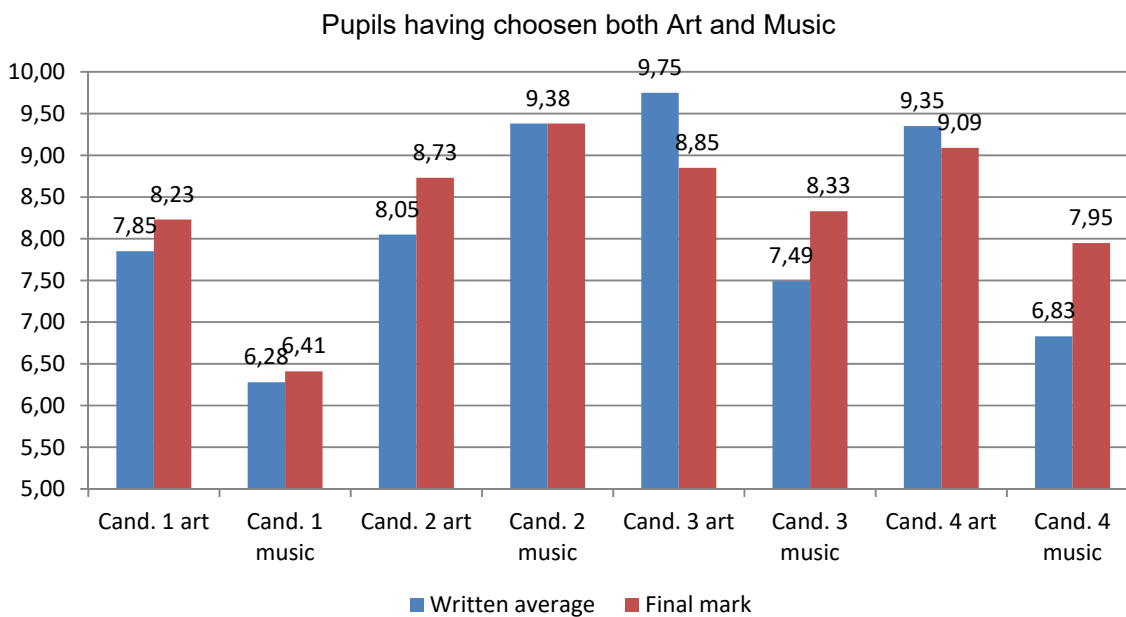
General average in Art at the 2017 European Bacculaureate, per school: 8.41.



General average in Music at the 2017 European Baccalaureate, per school: 7.59.



Only 4 candidates took both Art and Music examination. 2 girls and 2 boys: 1 from ES BR 3, 1 from ES CUL and 2 from ES LUX 2- MAM.

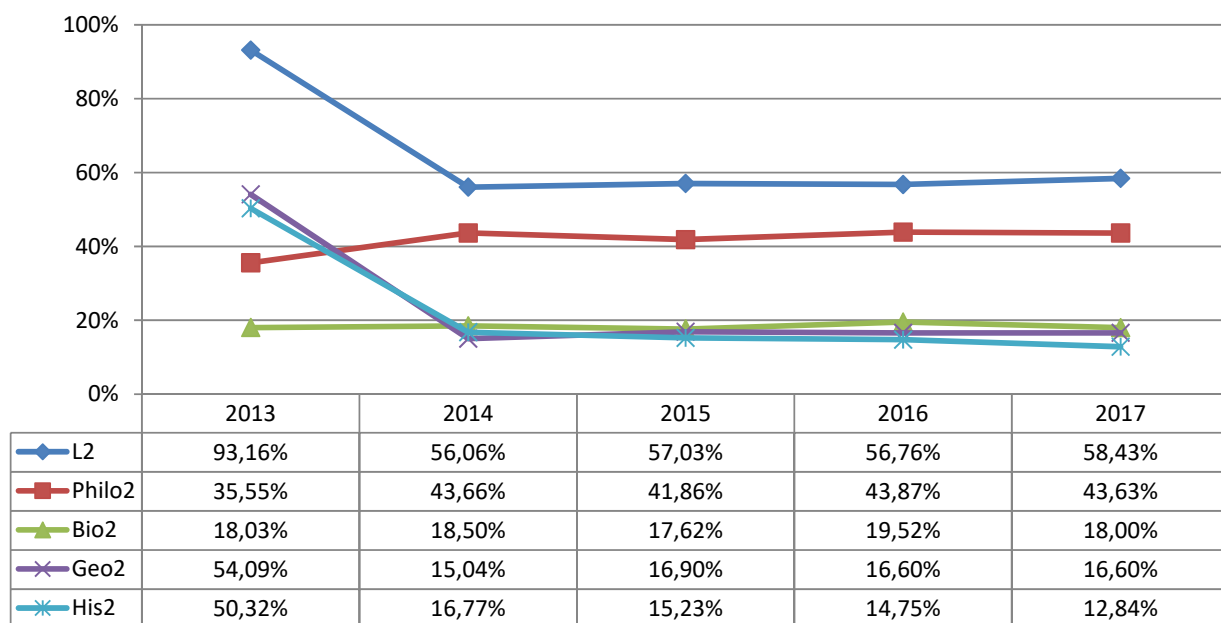


### 4.6.2 Most popular oral choices

The five most widely chosen options for the oral examinations in 2017 were: Language II (English) (827), Philosophy 2, Biology 2, Geography 2 and History 2.

Options of oral examinations	Number of candidates BAC 2015	Percentage of candidates BAC 2015	Number of candidates BAC 2016	Percentage of candidates BAC 2016	Number of candidates BAC 2017	Percentage of candidates BAC 2017
LANGUAGE II	1026	57.03%	1070	56.76%	<b>1164</b>	<b>58.40%</b>
PHILOSOPHY 2	753	41.86%	827	43.87%	<b>870</b>	<b>43.65%</b>
BIOLOGY 2	754	41.91%	368	19.52%	<b>359</b>	<b>18.01%</b>
GEOGRAPHY 2	304	16.90%	313	16.60%	<b>330</b>	<b>16.56%</b>
HISTORY 2	274	15.23%	278	14.75%	<b>256</b>	<b>12.84%</b>

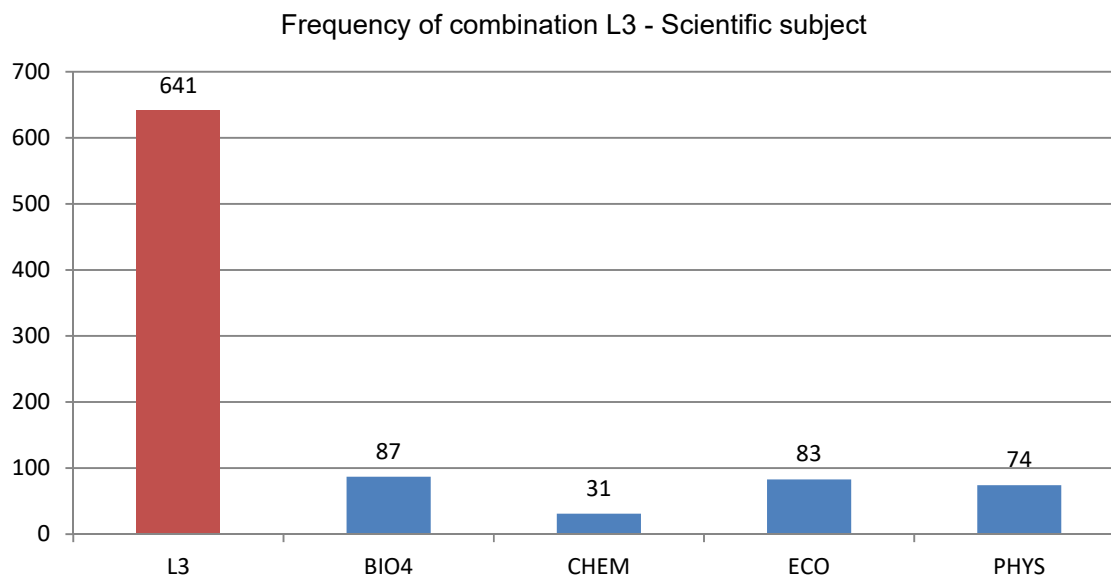
Oral candidates Evolution



The drop in L2 oral examinations can be explained by the fact that, as from session 2013, L2 was not a compulsory option anymore at orals.

### 4.6.3 Combination L3 - Sciences

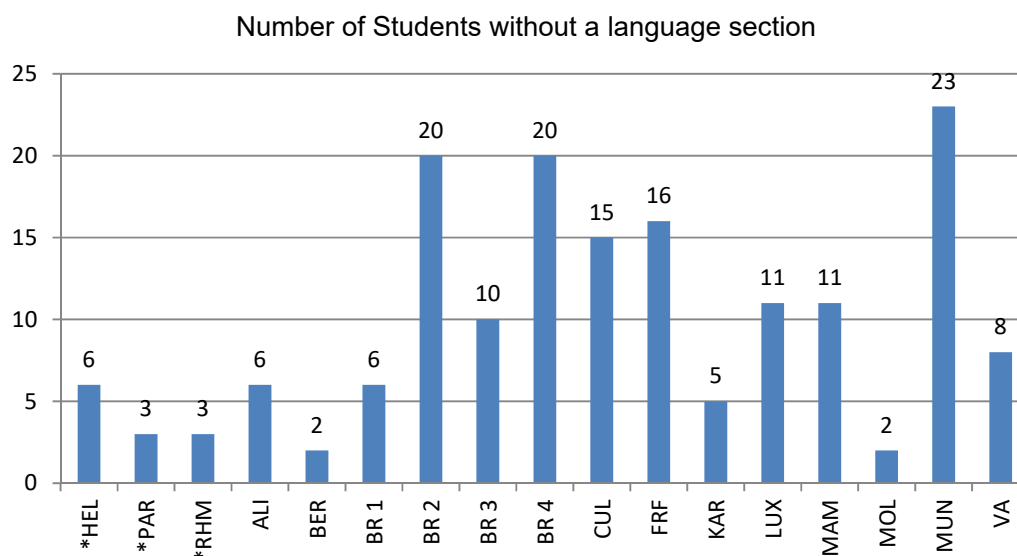
641 candidates took a written examination in Language III. Out of these, 275 combined this examination with an examination in one scientific subject. Only 1 pupil combined L3 with 2 scientific subjects (Chemistry and Physics). In this graph we can see a frequency of combination:



The graph shows that candidates with language orientation are also interested in mastering sciences in line with European key competences for lifelong learning.

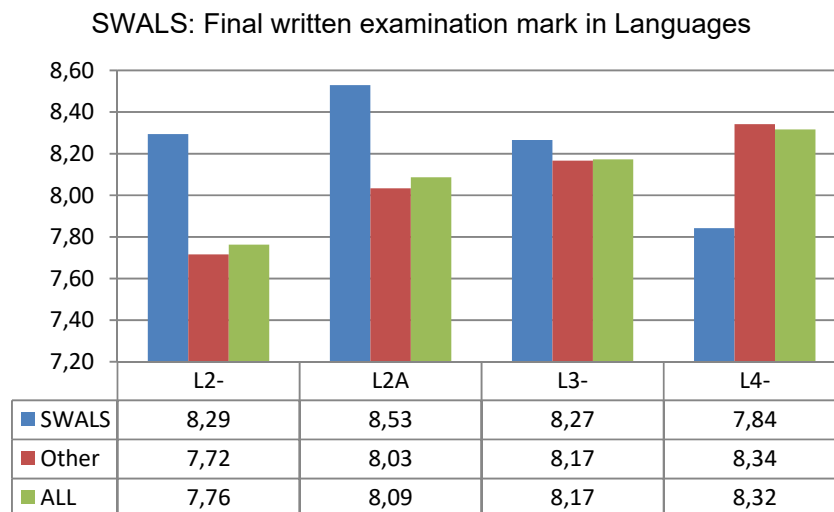
### 4.7 Students Without A Language Section (SWALS)

This year, 167 Students Without A Language Section registered for the European Baccalaureate session.



The average Final Mark achieved by SWALS candidates this year came up to 8. 1 SWALS candidate failed.

In the following graph are shown their performance in Languages II, IIadv, III and IV. It can be observed that their performance is higher than the average, except in LIV.



Here are some results of the SWALS pupils in comparison with the other pupils and the general average. Results where SWALS averages are higher than the others, are highlighted.

	AR4	GE4	GRE	HI4	LAT	MU4	PH4
SWALS	8.40	6.95	8.90	7.27	8.38	7.87	8.15
Others	8.41	6.74	8.50	7.28	7.72	7.56	7.85
All	8.41	6.76	8.60	7.28	7.77	7.59	7.86

	BI4	CHI	ECO	MA3	MA5	PHY
SWALS	6.91	7.44	7.40	6.51	7.27	7.25
Others	6.92	7.15	7.10	6.29	7.10	7.46
All	6.92	7.18	7.14	6.31	7.12	7.44

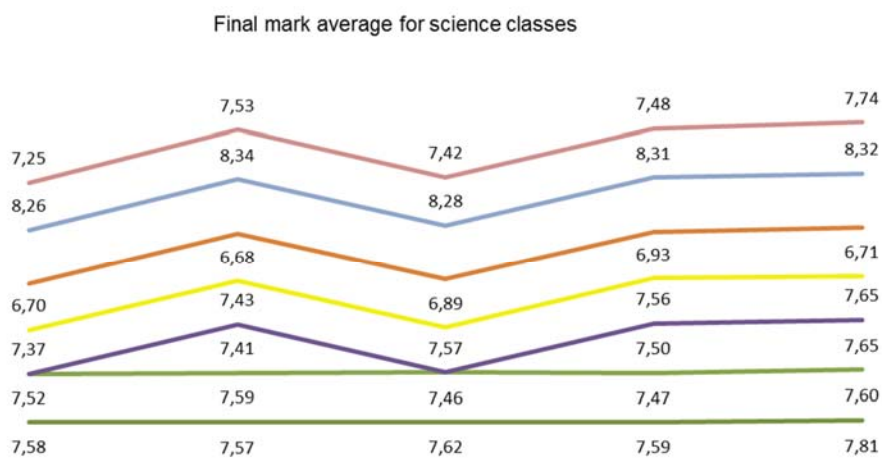


## 5. Results about the Sciences: Biology, Chemistry, Economic Sciences, Mathematics 3P, Mathematics 5P and Physics

### 5.1 Final Marks for Science Classes

(Final Mark per subject:  $0.50 C + 0.35 W + 0.15 O$ )

The evolution of the average Final Mark (Marks C + W + O) for the science classes as set out in the graph shows substantial stability over the years.

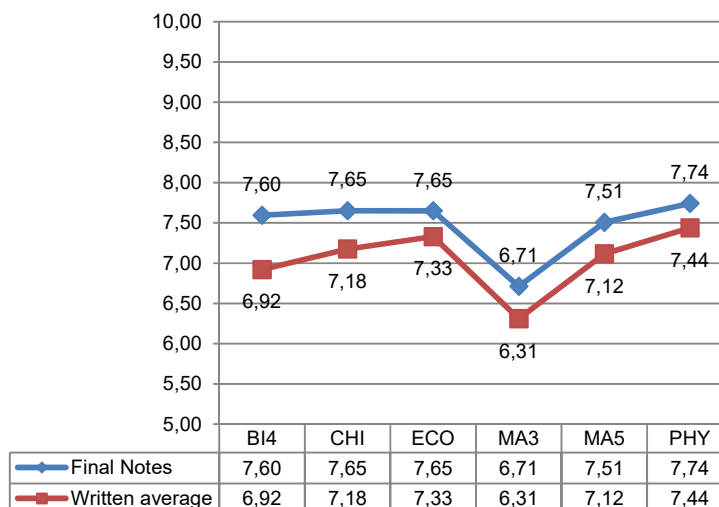


	2013	2014	2015	2016	2017
PHY	7,25	7,53	7,42	7,48	7,74
MAA	8,26	8,34	8,28	8,31	8,32
MAS	7,13	7,32	7,46	7,26	7,51
MA3	6,70	6,68	6,89	6,93	6,71
ECO	7,37	7,43	7,57	7,56	7,65
CHI	7,52	7,59	7,46	7,47	7,60
BI4	7,58	7,57	7,62	7,59	7,81

(Economics data not complete for some past years)

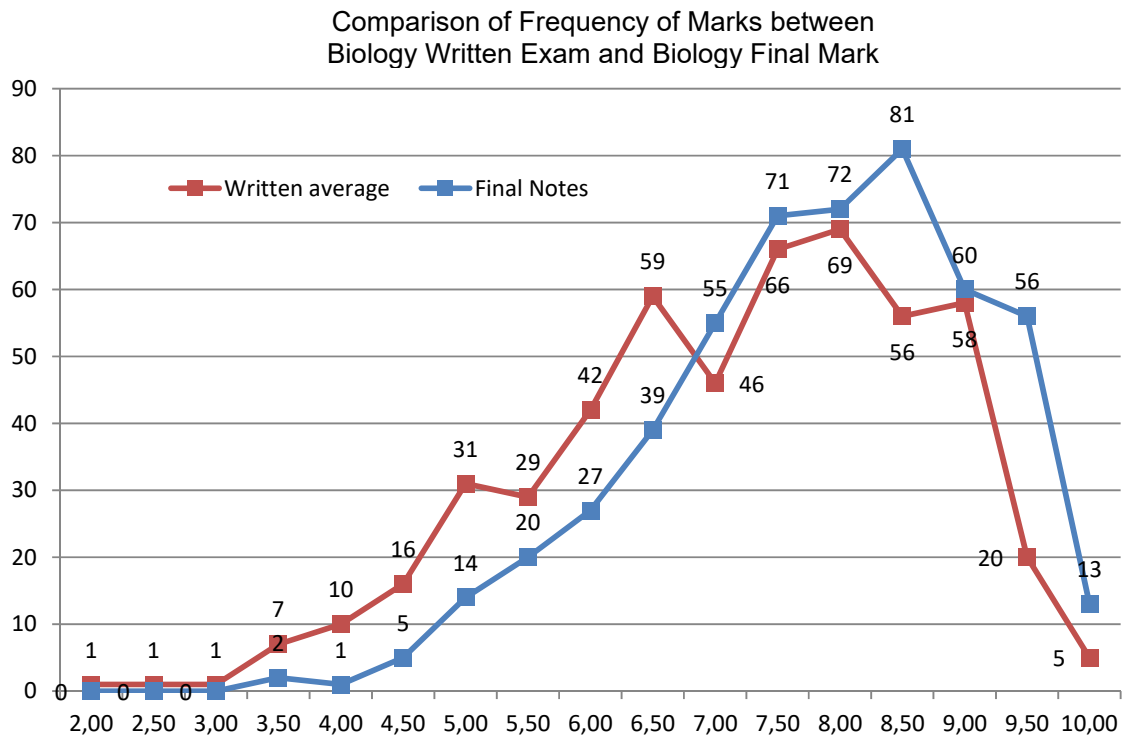
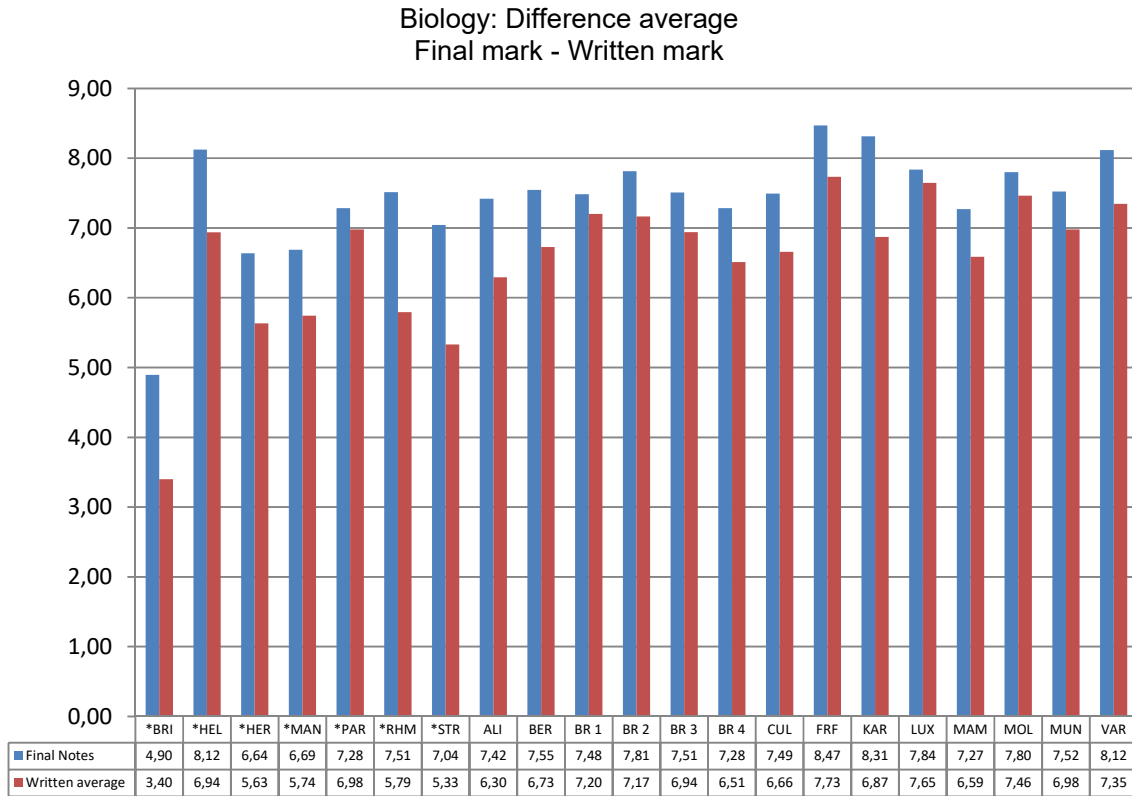
### 5.2 Comparison of Final Marks / Written Marks of Scientific Courses

The graphs below show that the results in the Biology, Chemistry, Maths 3P, Maths 5P and Physics final marks do not differ much from the final written EB mark. However, the number of failures in these subjects is still considerable.



### 5.2.1 Biology Final Mark (gen average. 7.60)

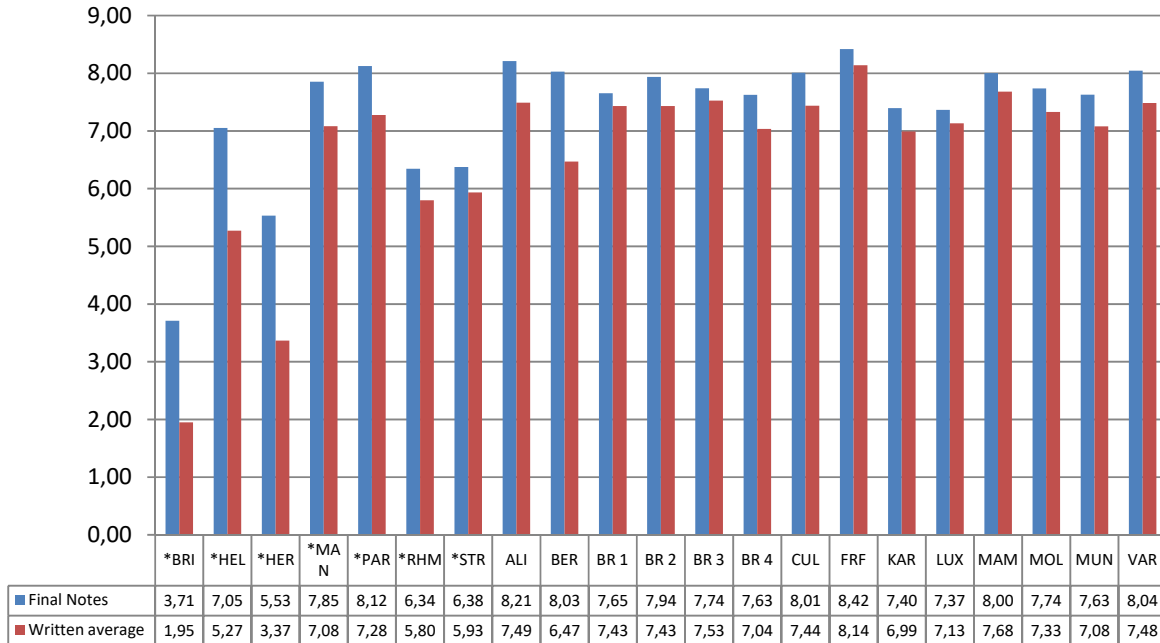
Detailed results, per school:



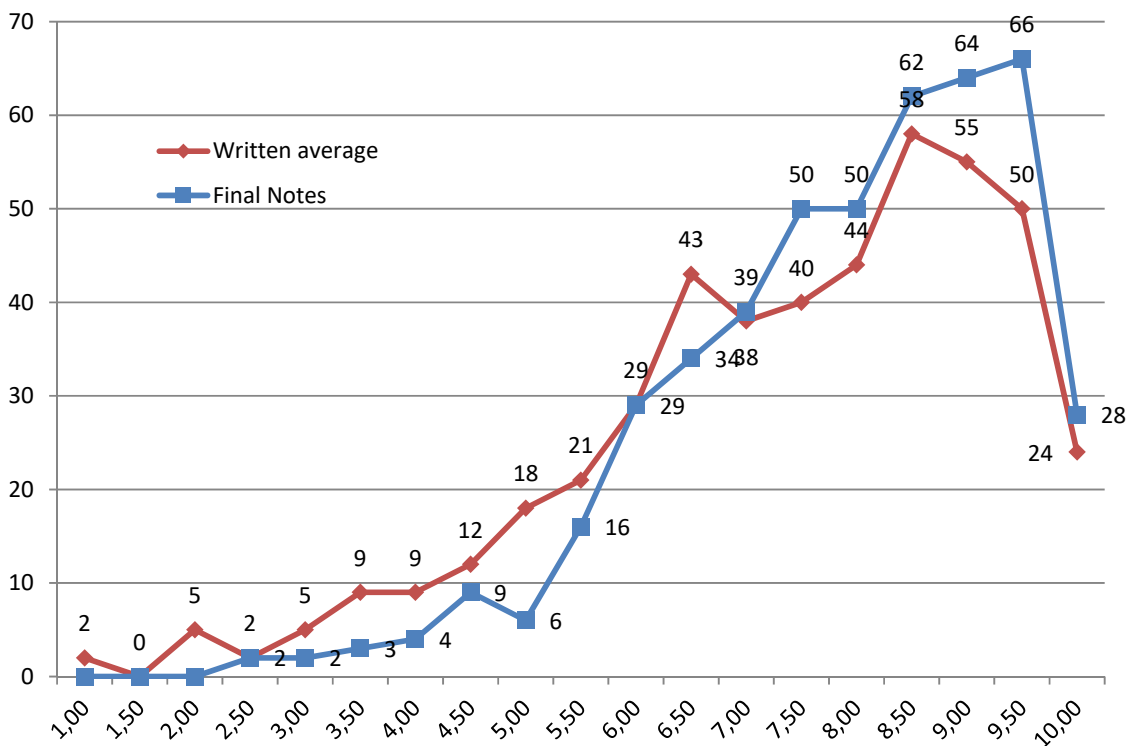
### 5.2.2 Chemistry Final Mark (gen. average. 7.65)

Detailed results, per school:

Chemistry: Difference average  
Final mark - Written mark

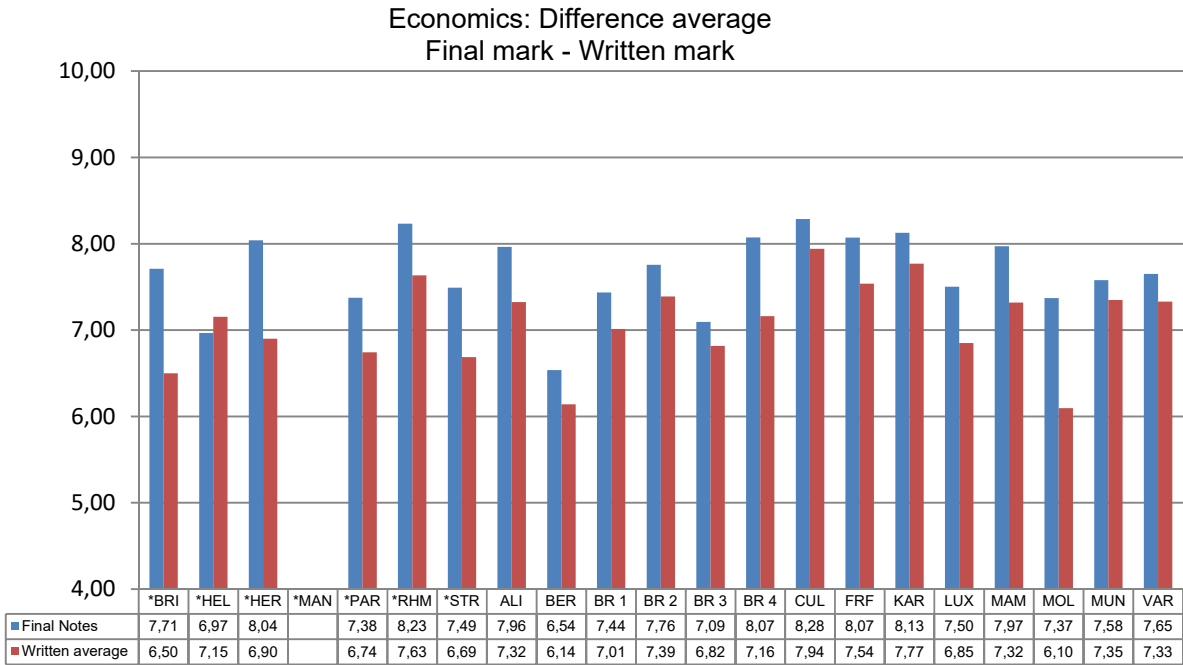


Comparison of Frequency of Marks between  
Chemistry Written Exam and Chemistry Final Mark

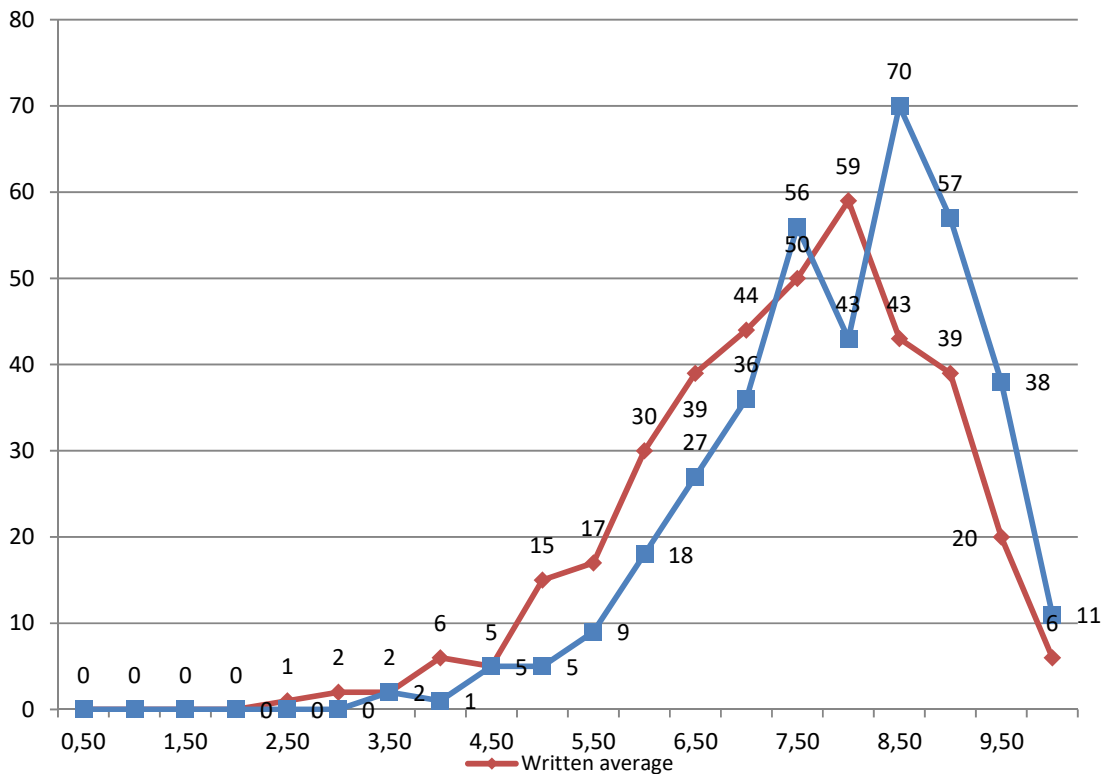


### 5.2.3 Economics Final Mark (gen. average 7.65)

Detailed results, per school:



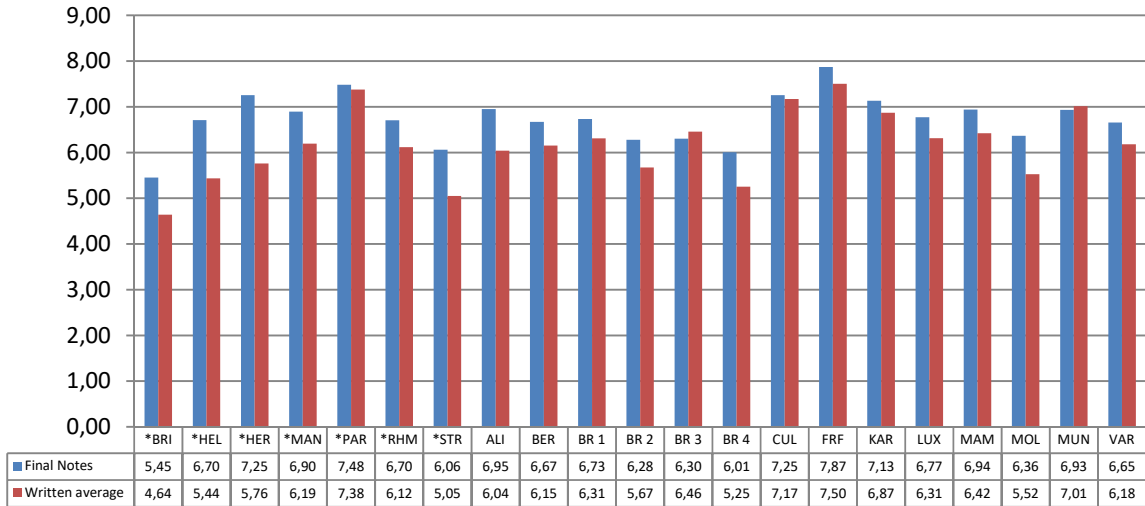
Comparison of Frequency of Marks between  
Economics Written Exam and Chemistry Final Mark



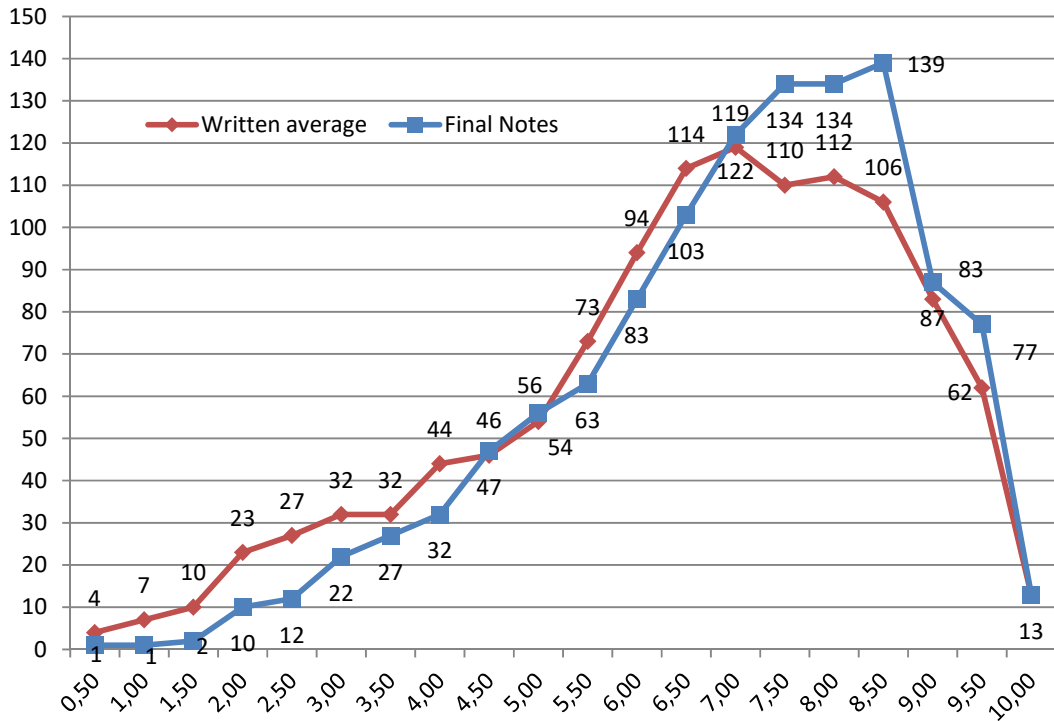
### 5.2.4 Maths 3P Final Mark (gen. average. 6.71)

Detailed results, per school:

Maths 3P: Difference average  
Final mark - Written mark



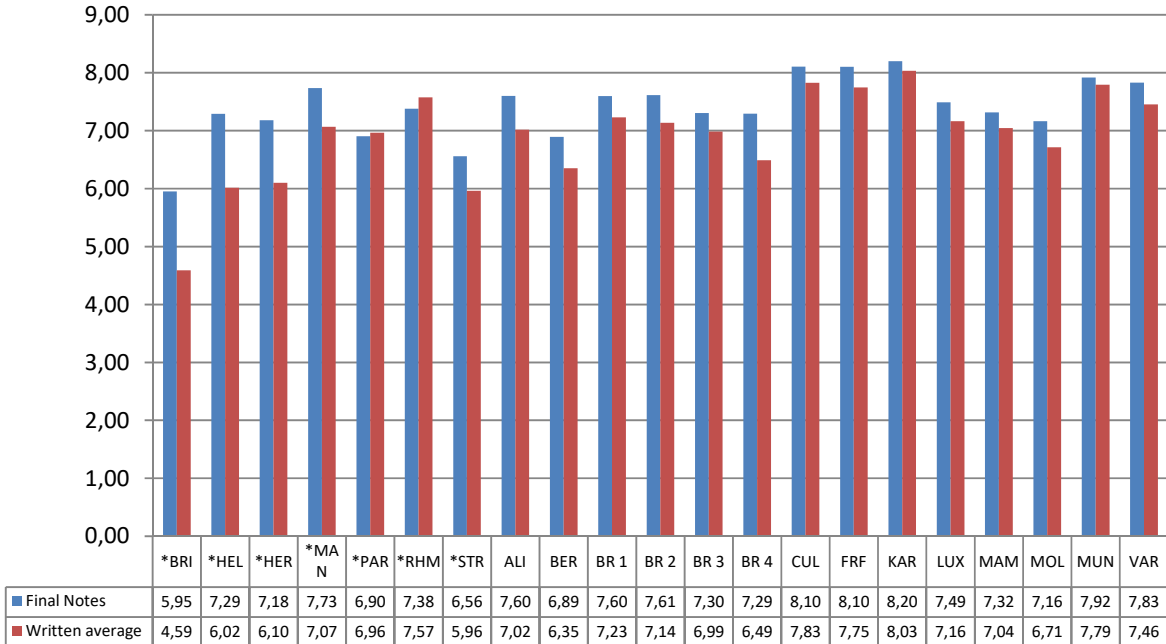
Comparison of Frequency of Marks between  
Mathematics 3P Written Exam and Mathematics 3P Final Mark



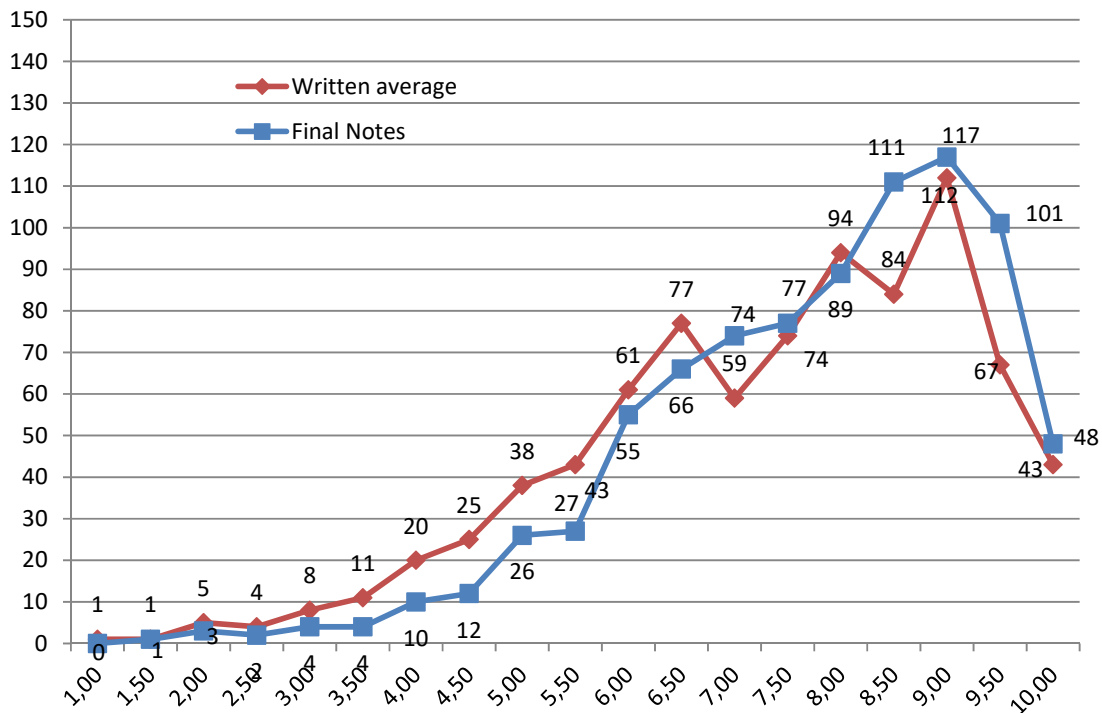
### 5.2.5 Maths 5P Final Mark (gen. average. 7.51)

Detailed results, per school:

Maths 5P: Difference average  
Final mark - Written mark



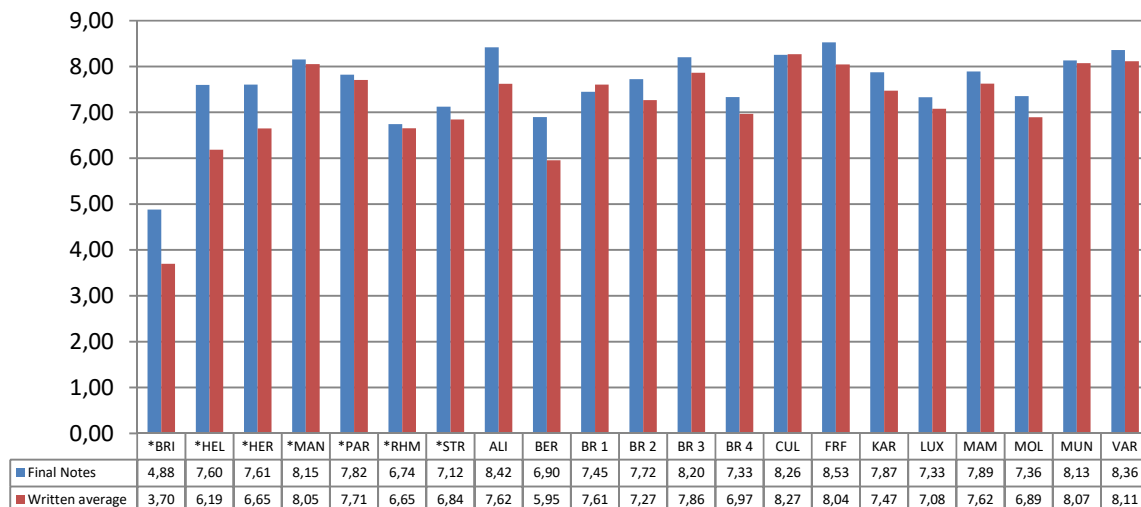
Comparison of Frequency of Marks between  
Mathematics 5P Written Exam and Mathematics 5P Final Mark



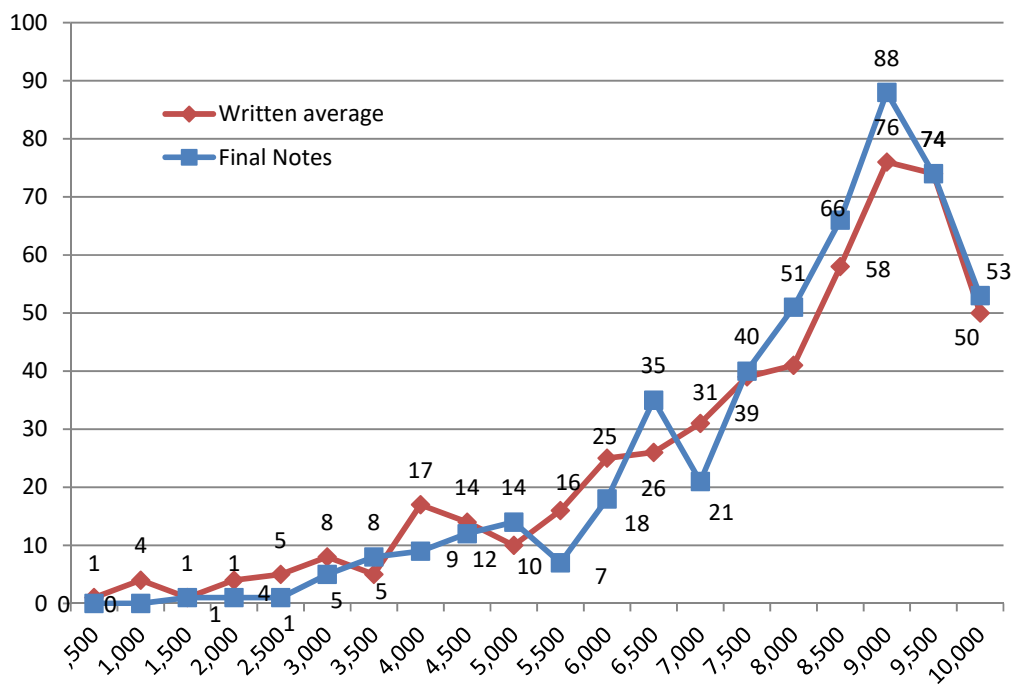
### 5.2.6 Physics Final Mark (gen. average. 7.74)

Detailed results, per school:

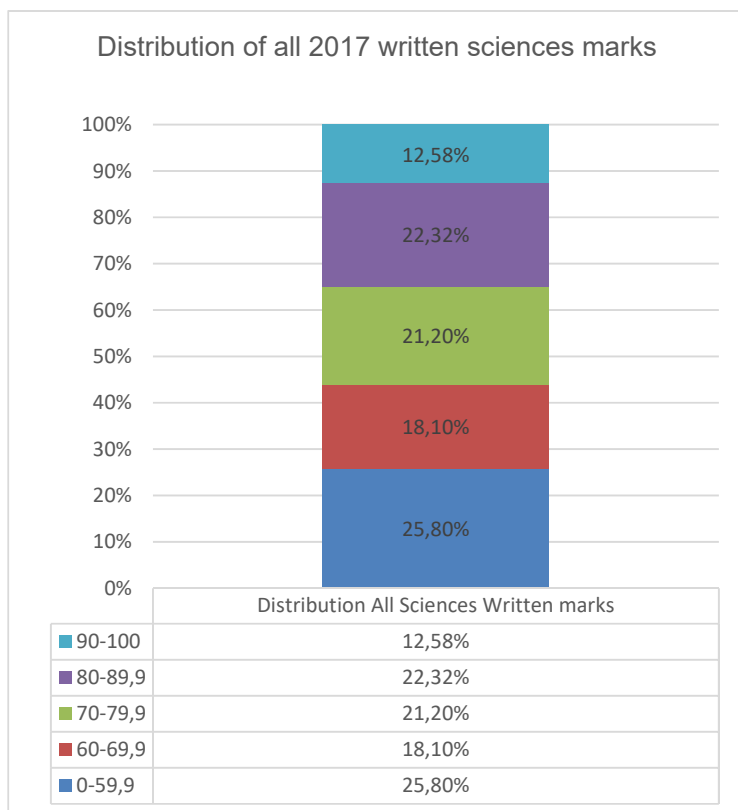
Physics: Difference average  
Final mark - Written mark



Comparison of Frequency of Marks between  
Physics Written Exam and Physics Final Mark



### 5.3 EB Sciences Written Examination Marks Results



The distribution graph on the left indicates that for all sciences subjects considered, 1 script out of 4 did not obtain the pass mark.

The table on the right shows the detail among the sciences subjects distribution of written examination marks.

Ma3 is the subject with the highest failure rate with a percentage of 37.60 of pupils not reaching the pass mark of 6.

Whereas Physics shows the highest success rate with a percentage of 25.54, of pupils reaching a final written examination mark between 9 and 10.

Distribution written marks 2017  
Biology - Chemistry - Economics - MA3 - MA5 - Physics

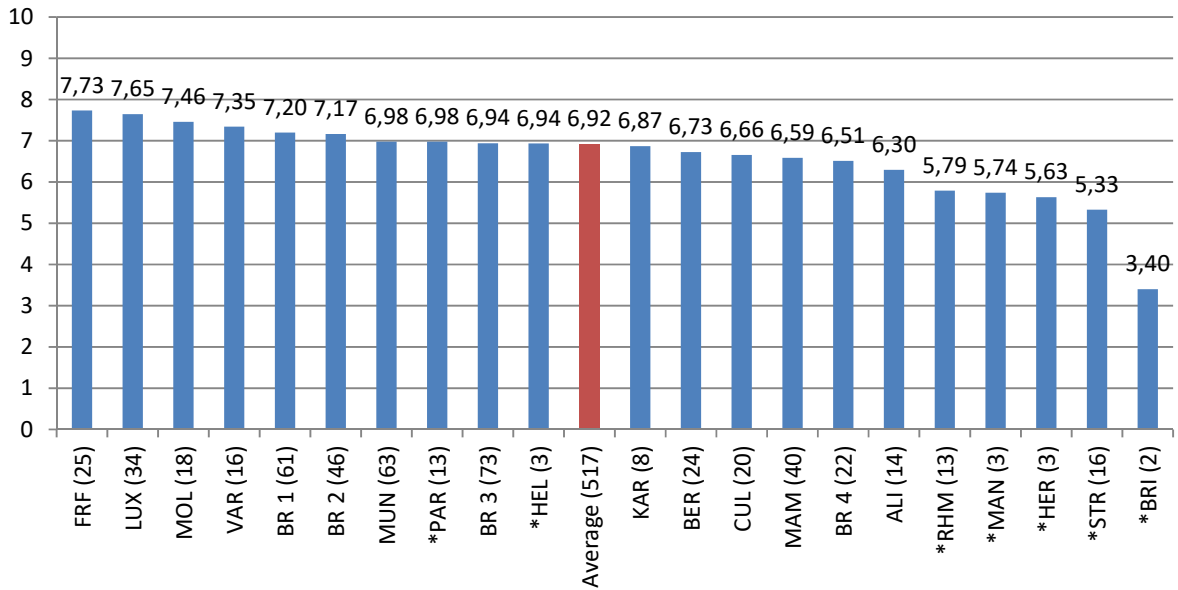




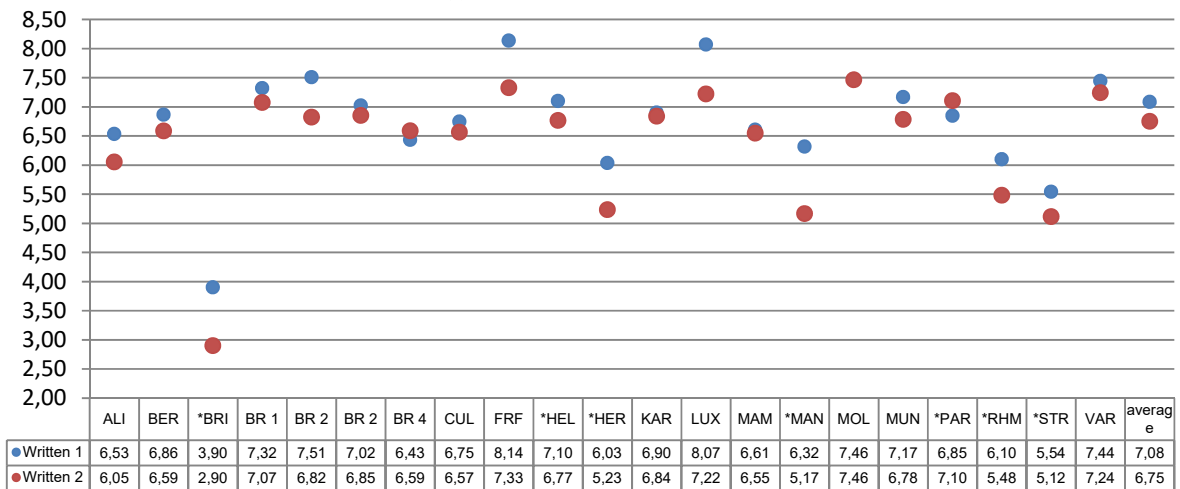
### 5.3.1 Biology (Success rate: 74.66%)

School year	*BRI	*HEL	*HER	*MAN	*PAR	*RHM	*STR	ALI	BER	BR 1	BR 2	BR 3	BR 4	CUL	FRF	KAR	LUX	MAM	MOL	MUN	VAR	Aver.
2012/2013		4,82		8,20	6,58			7,06	6,65	7,59	7,16	7,45		8,20	7,41	6,94	7,14	6,71	6,53	7,24	7,39	7,19
2013/2014		6,25		8,40	7,47		6,67	7,66	6,03	7,41	7,24	7,39		7,41	7,43	7,50	7,17	6,98	7,58	7,48	7,16	7,27
2014/2015		5,58		7,30	6,41		5,99	6,77	6,65	7,50	7,01	7,15		7,40	6,88	7,66	7,08	6,97	6,94	6,69	7,57	7,04
2015/2016		6,00		7,48	7,33	4,78	6,14	6,69	6,43	7,23	6,53	7,13		7,25	7,60	6,57	6,80	7,33	7,50	7,01	7,84	6,97
2016/2017	3,40	6,94	5,63	5,74	6,98	5,79	5,33	6,30	6,73	7,20	7,17	6,94	6,51	6,66	7,73	6,87	7,65	6,59	7,46	6,98	7,35	6,92

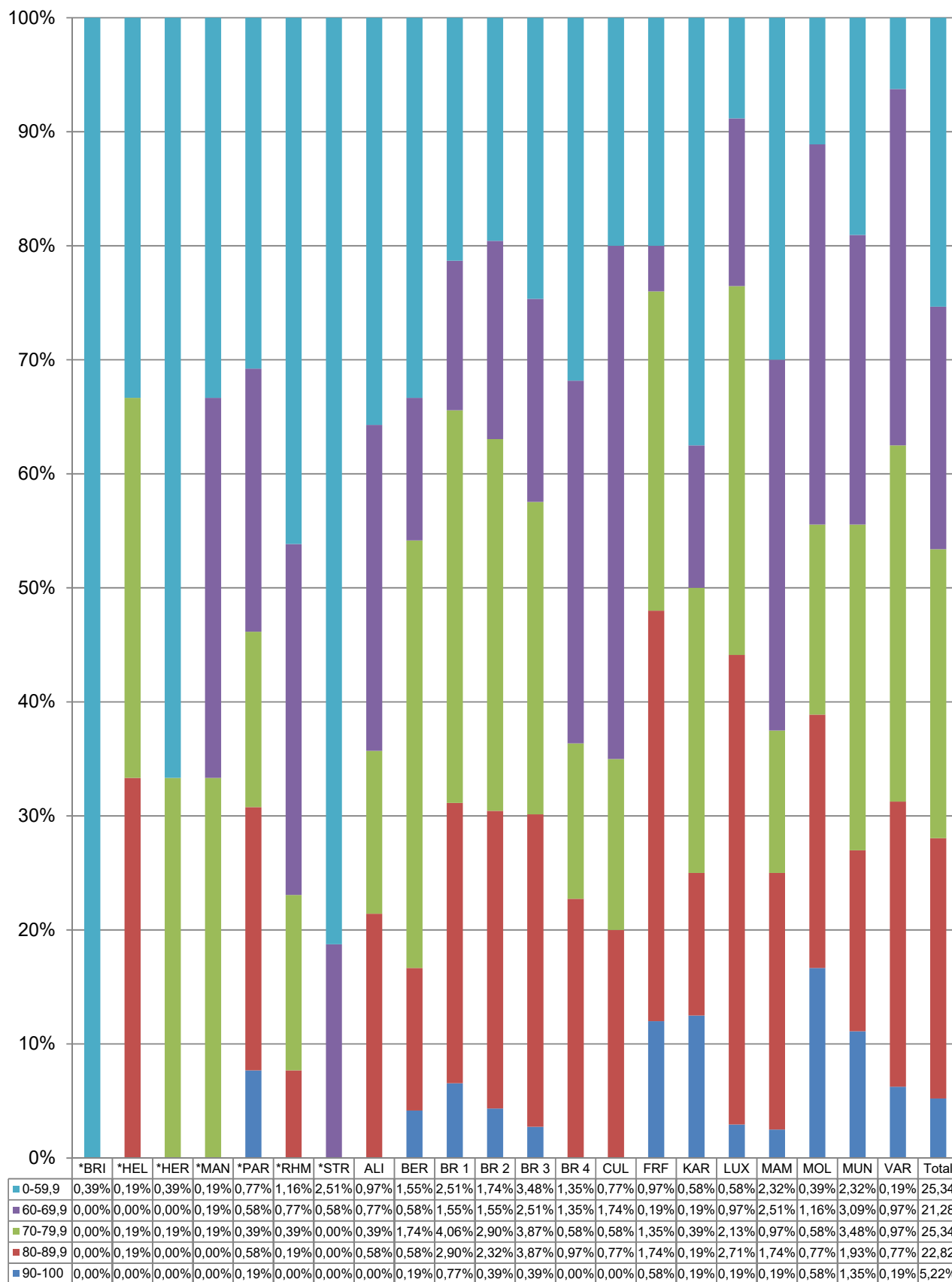
Biology written average (6.92)



Biology : comparison W1 W2



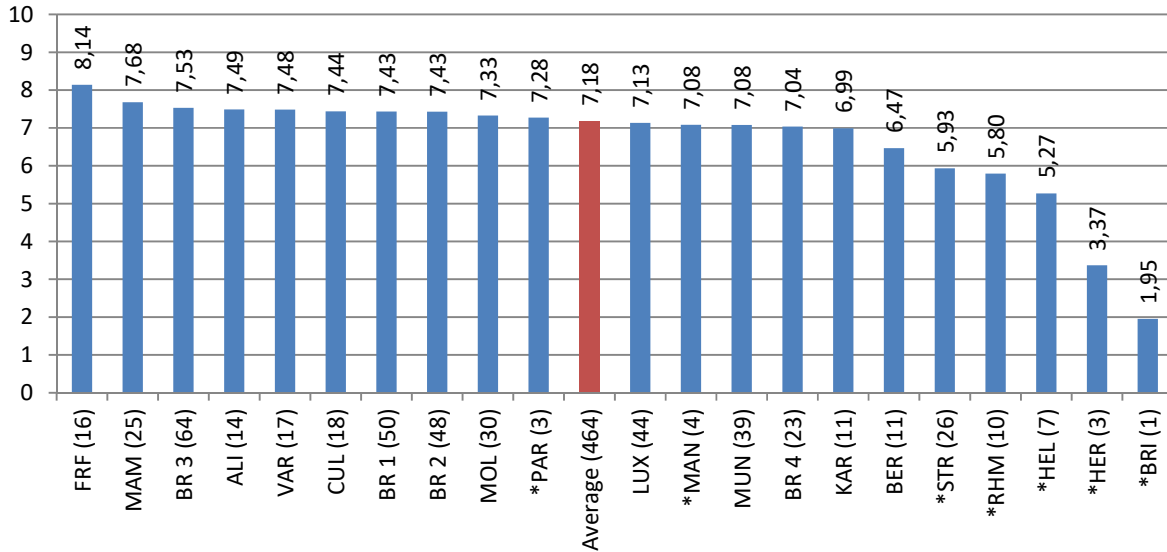
### Distribution Biology 2017



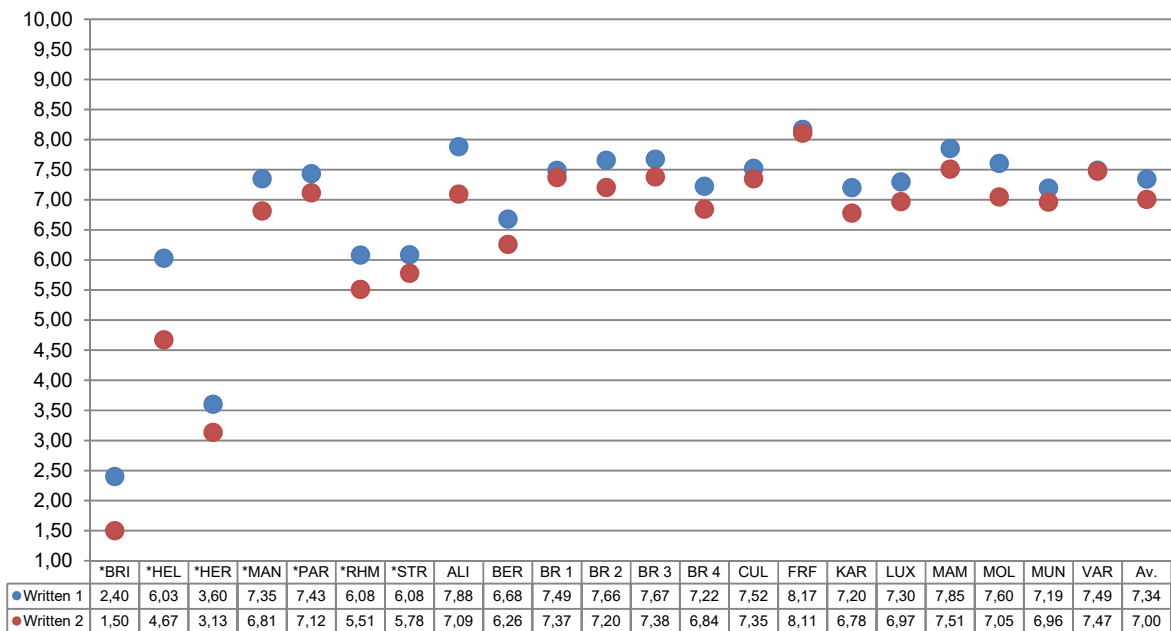
### 5.3.2 Chemistry (Success rate: 76.08%)

School year	*BRI	*HEL	*HER	*MAN	*PAR	*RHM	*STR	ALI	BER	BR 1	BR 2	BR 3	BR 4	CUL	FRF	KAR	LUX	MAM	MOL	MUN	VAR	Aver.
2012/2013			6,93	8,20			7,14	6,19	6,39	6,97	7,75	7,86		7,77	8,95	8,49	7,45	6,87	7,56	7,65	6,03	7,45
2013/2014			8,08	6,90	7,58		7,46	7,02	5,49	7,27	6,69	7,21		7,40	7,36	6,50	7,12	6,07	6,24	7,44	8,60	6,95
2014/2015		5,35	7,15	7,19	7,28		5,85	6,93	4,54	7,86	6,69	7,04		8,02	7,87	7,39	7,54	7,75	7,41	7,44	7,81	7,24
2015/2016		5,02	6,72	7,40	8,57	5,88	6,20	6,85	4,46	7,66	6,39	7,54		8,01	7,14	6,44	7,97	7,97	7,19	6,99	7,54	7,12
2016/2017	1,95	5,27	3,37	7,08	7,28	5,80	5,93	7,49	6,47	7,43	7,43	7,53	7,04	7,44	8,14	6,99	7,13	7,68	7,33	7,08	7,48	7,18

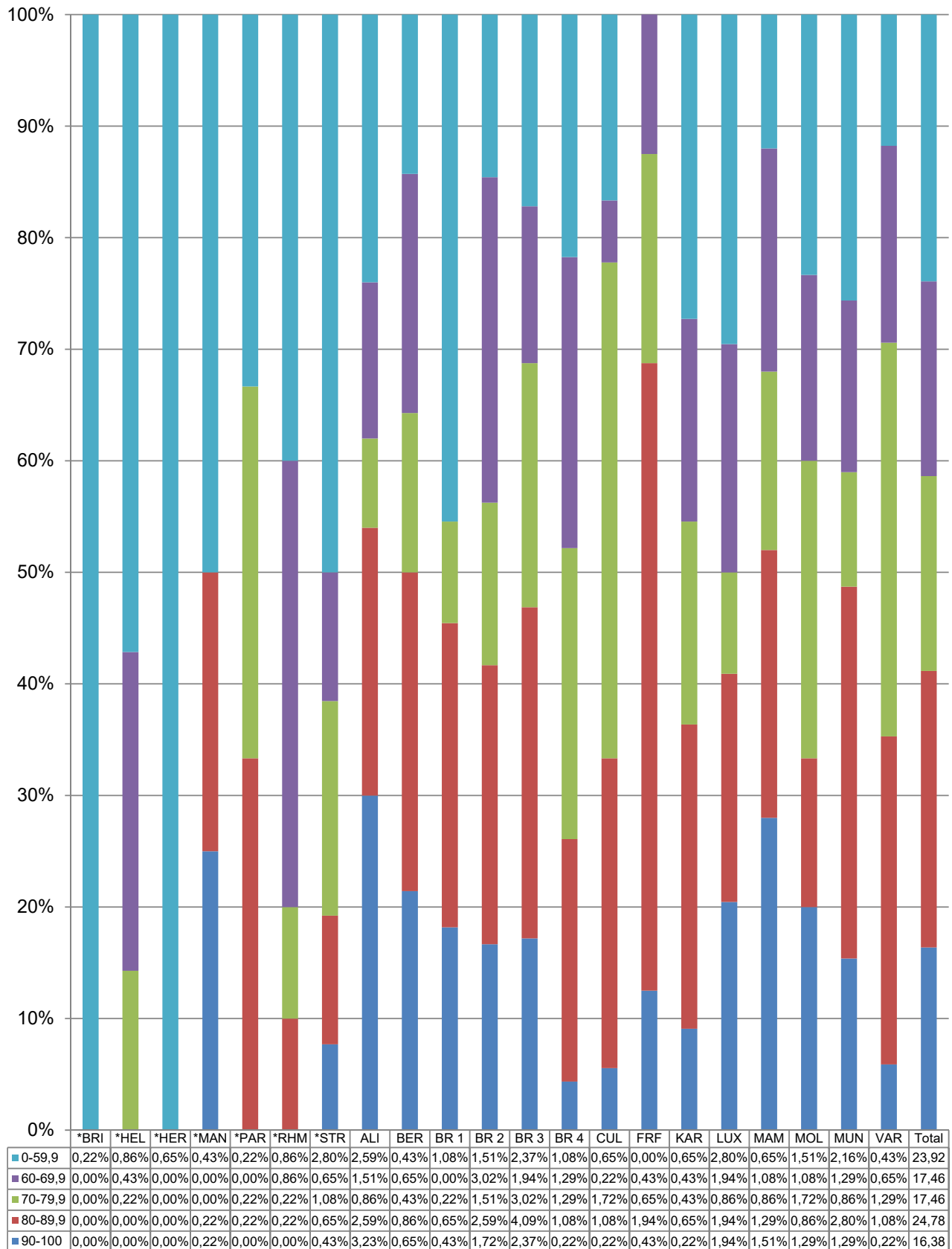
Chemistry written average (7.18)



Chemistry : comparison W1 W2



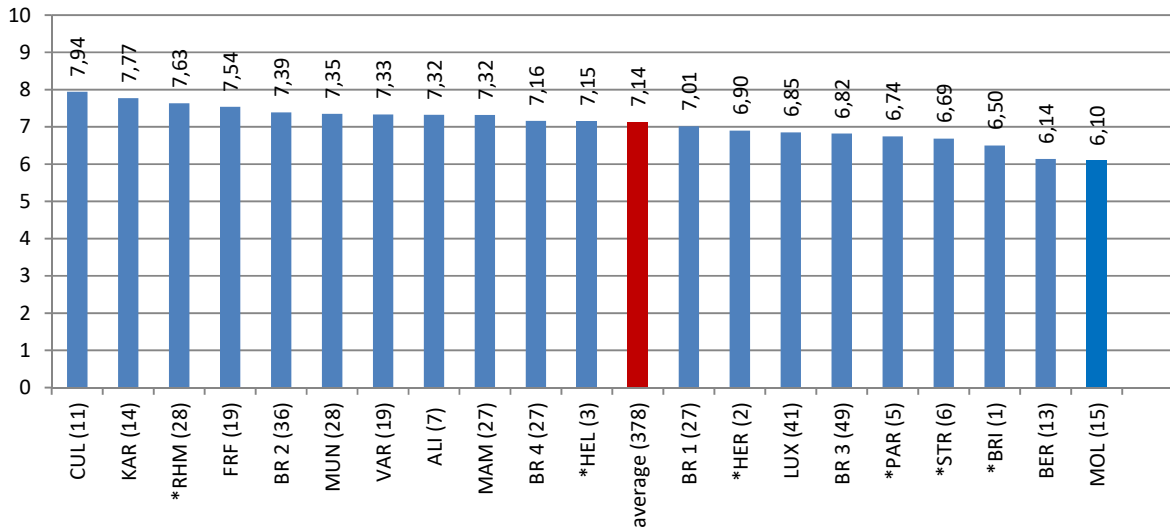
### Chemistry : distribution of written marks



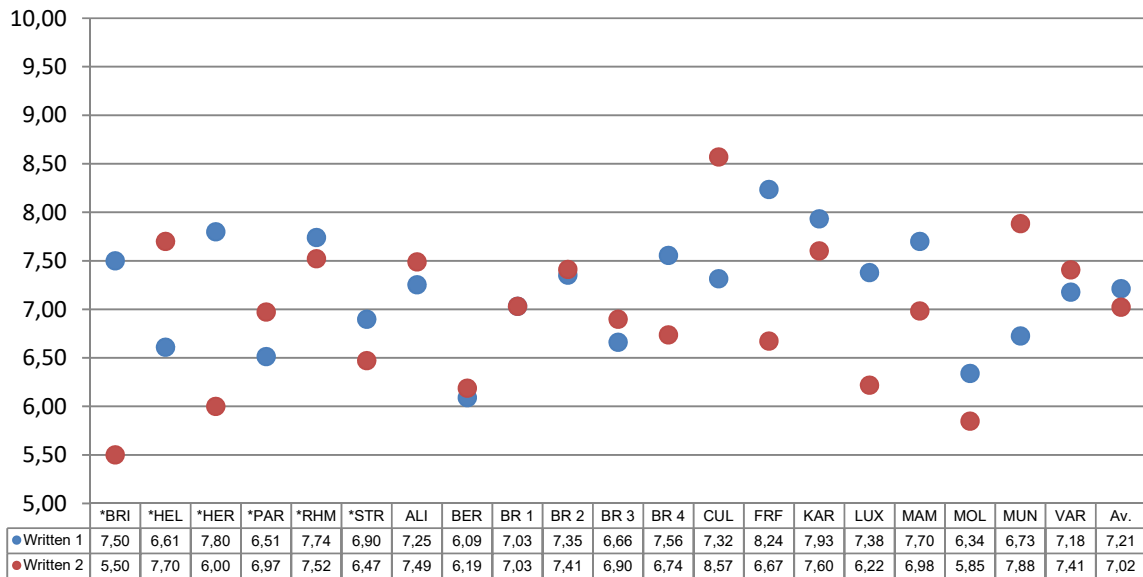
### 5.3.3 Economics (Success rate: 79,63%)

School year	*BRI	*HEL	*HER	*MAN	*PAR	*RHM	*STR	ALI	BER	BR 1	BR 2	BR 3	BR 4	CUL	FRF	KAR	LUX	MAM	MOL	MUN	VAR	Aver.
2012/2013				6,64	7,88			6,76		7,04	7,23	7,09		8,28	7,76	6,94	7,67	6,85	6,84	7,78	7,63	<b>7,30</b>
2013/2014		5,64			7,84		7,61	5,87	5,60	7,56	6,86	7,19		7,12	7,70	6,37	7,17	6,37	7,01	7,10	6,33	<b>6,94</b>
2014/2015		6,77			6,91		8,08	6,27	7,06	7,11	7,32	6,95		7,82	7,74	6,55	6,63	6,84	6,10	7,24	7,13	<b>7,01</b>
2015/2016					7,60	7,88	6,95	7,33	6,46	7,11	6,88	6,91		7,84	8,68	7,35	6,82	7,15	6,52	6,47	7,75	<b>7,20</b>
2016/2017	6,50	7,15	6,90		6,74	7,63	6,69	7,32	6,14	7,01	7,39	6,82	7,16	7,94	7,54	7,77	6,85	7,32	6,10	7,35	7,33	<b>7,14</b>

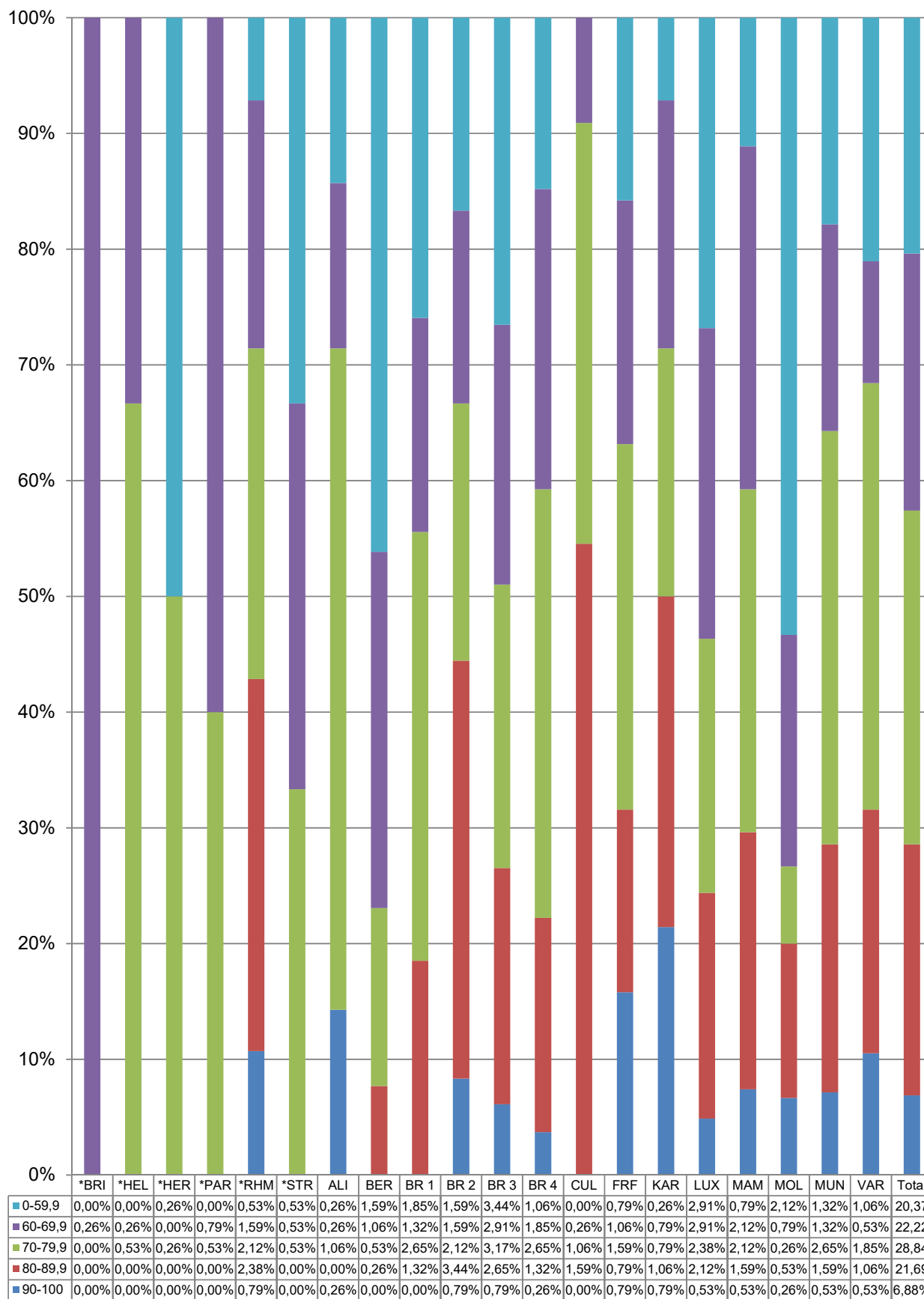
Economics written average (7.14)



Economics: comparison W1 W2



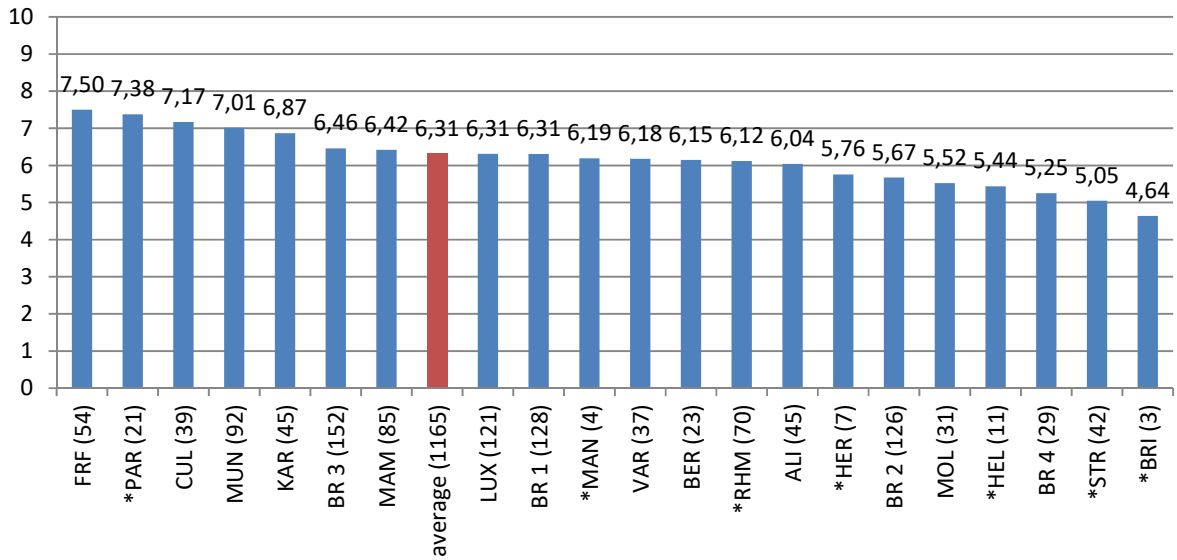
### Economics: distribution of written marks



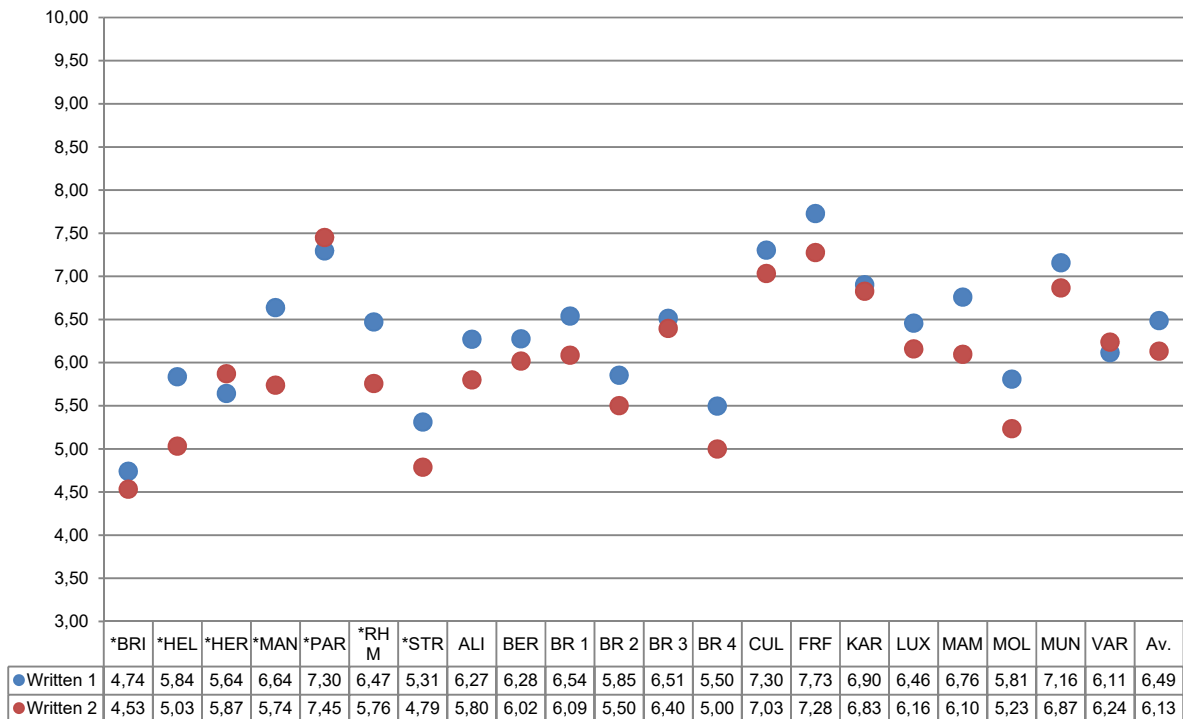
### 5.3.4 Mathematics 3P (Success rate: 62,40%)

School year	*BRI	*HEL	*HER	*MAN	*PAR	*RHM	*STR	ALI	BER	BR 1	BR 2	BR 3	BR 4	CUL	FRF	KAR	LUX	MAM	MOL	MUN	VAR	Aver.
2012/2013		6,34		6,18	5,48			5,97	6,00	6,42	6,21	6,94		7,39	7,28	6,36	6,76	6,20	5,01	7,00	6,68	<b>6,52</b>
2013/2014		5,86		6,15	6,23		6,43	6,18	5,50	6,50	5,59	6,63		8,30	6,98	6,60	6,27	6,13	5,80	6,69	6,53	<b>6,35</b>
2014/2015		5,80	3,85	6,07	6,41		6,43	6,52	6,97	6,42	6,13	7,15		7,85	7,71	7,58	6,76	6,66	5,67	7,07	6,80	<b>6,75</b>
2015/2016		4,33	6,20	6,41	6,87		6,69	5,14	6,77	5,96	6,78	6,25	7,30		8,18	7,20	7,16	7,12	7,18	5,75	7,28	<b>6,88</b>
2016/2017	4,64	5,44	5,76	6,19	7,38	6,12	5,05	6,04	6,15	6,31	5,67	6,46	5,25	7,17	7,50	6,87	6,31	6,42	5,52	7,01	6,18	<b>6,31</b>

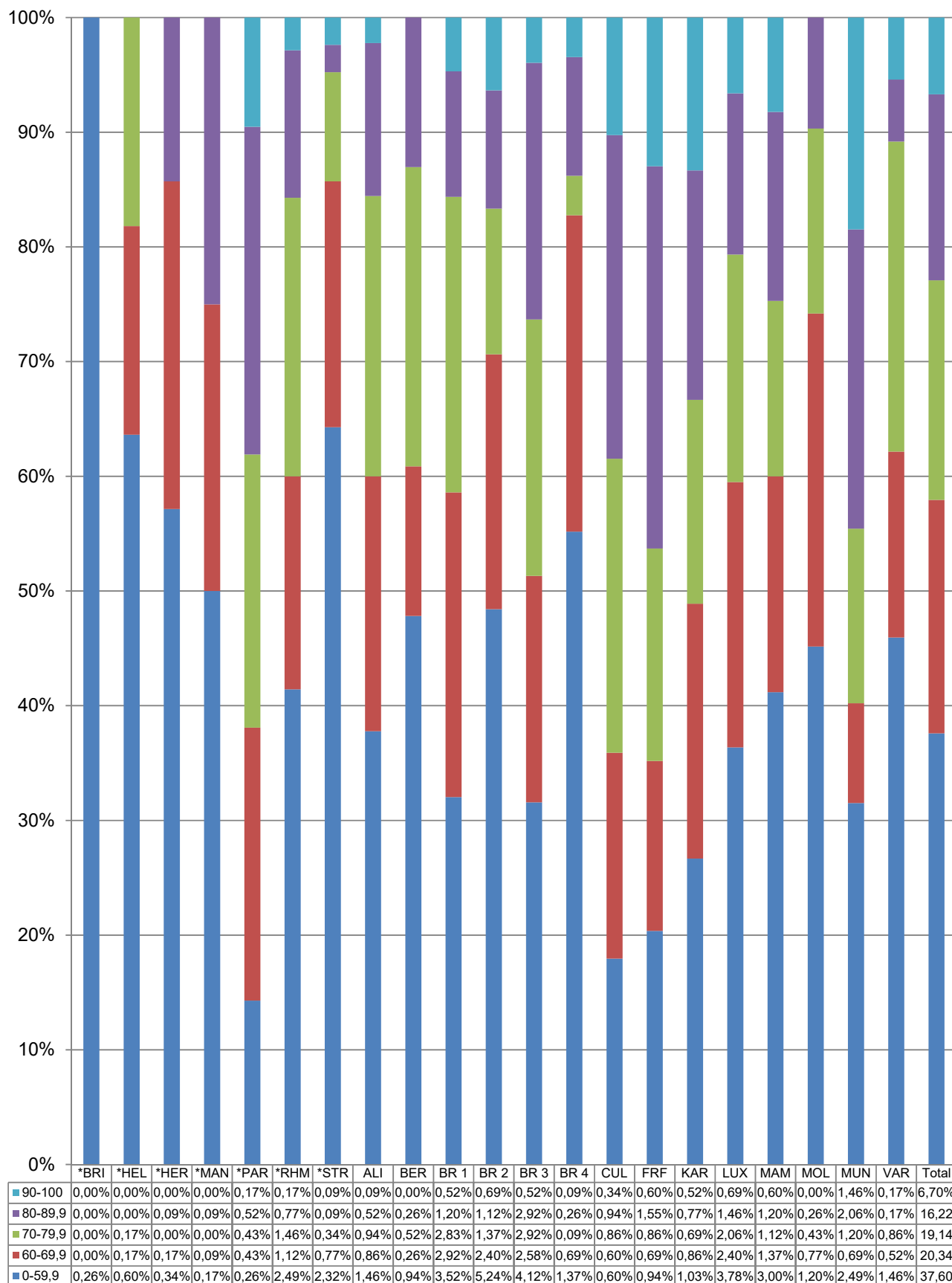
Mathematics 3P written average (6.31)



Mathematics 3P : comparison W1 W2



Mathematics 3P : distribution of written marks

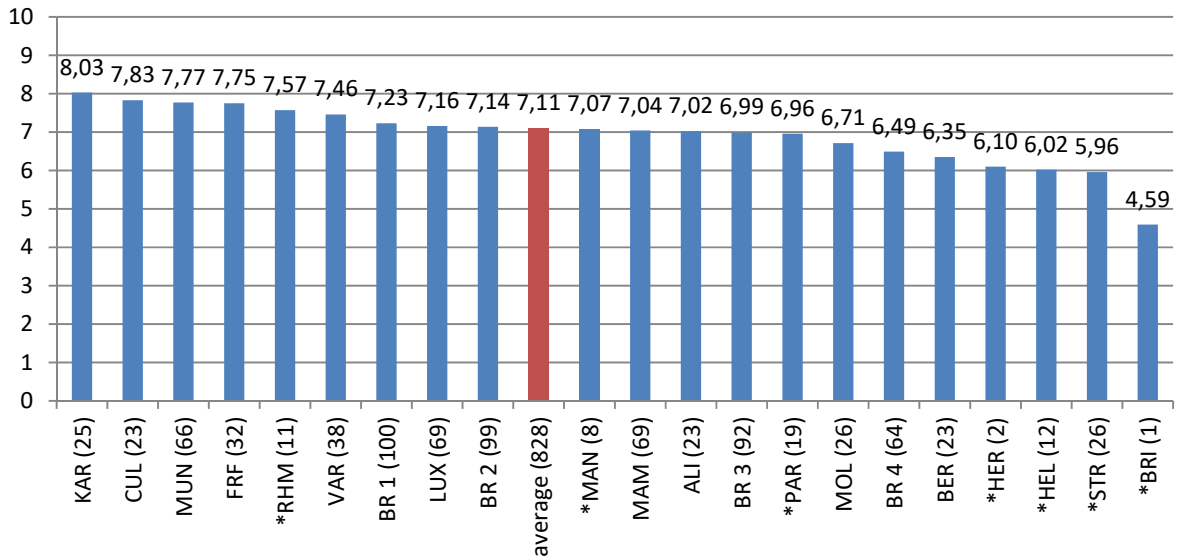




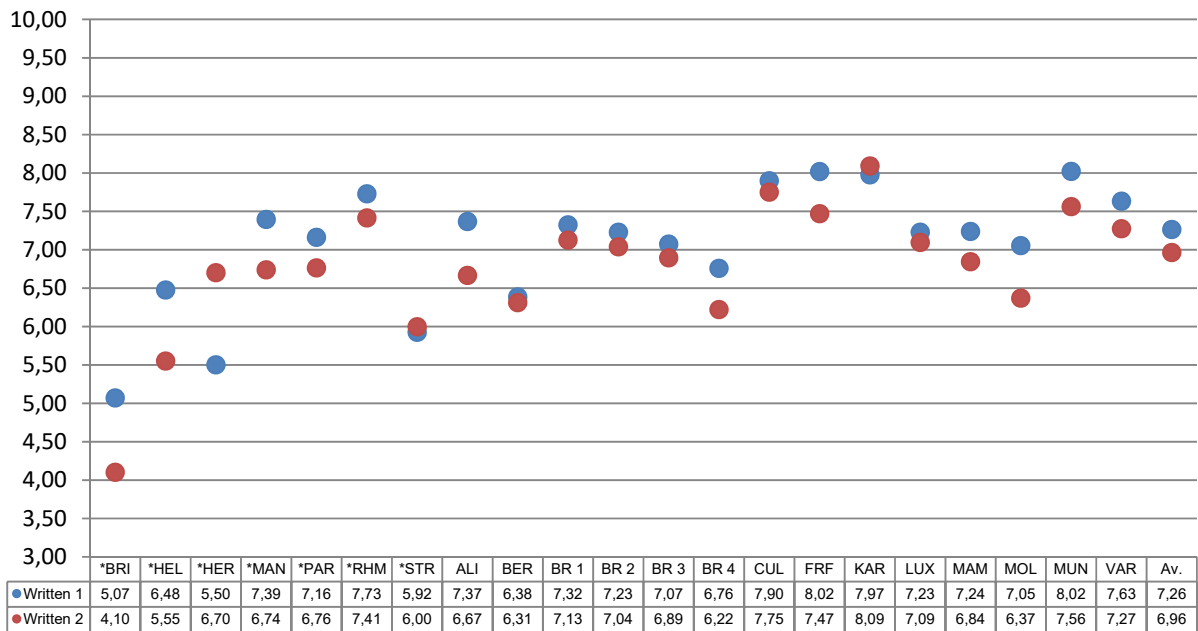
### 5.3.5 Mathematics 5P (Success rate: 68,71%)

School year	*BRI	*HEL	*HER	*MAN	*PAR	*RHM	*STR	ALI	BER	BR 1	BR 2	BR 3	BR 4	CUL	FRF	KAR	LUX	MAM	MOL	MUN	VAR	Aver.
2012/2013		3,84		6,65	7,07			7,21	5,03	6,78	6,23	7,02		8,45	7,96	7,30	7,22	7,26	6,50	7,98	7,45	<b>6,99</b>
2013/2014		5,93		8,03	7,61		5,13	6,72	6,07	6,99	6,38	6,95		7,81	7,59	7,69	6,74	6,95	6,38	7,76	7,68	<b>6,93</b>
2014/2015		5,72	3,80	6,51	6,92		5,28	6,49	6,32	7,68	6,77	7,14		7,86	8,07	7,23	7,43	7,80	7,88	7,60	7,54	<b>7,22</b>
2015/2016		5,98	4,75	7,15	7,69		6,22	5,82	6,00	5,88	7,07	5,98	7,03		7,32	7,80	7,19	6,99	6,93	5,95	7,37	<b>6,76</b>
2016/2017	4,59	6,02	6,10	7,07	6,96	7,57	5,96	7,02	6,35	7,23	7,14	6,99	6,49	7,83	7,75	8,03	7,16	7,04	6,71	7,77	7,46	<b>7,11</b>

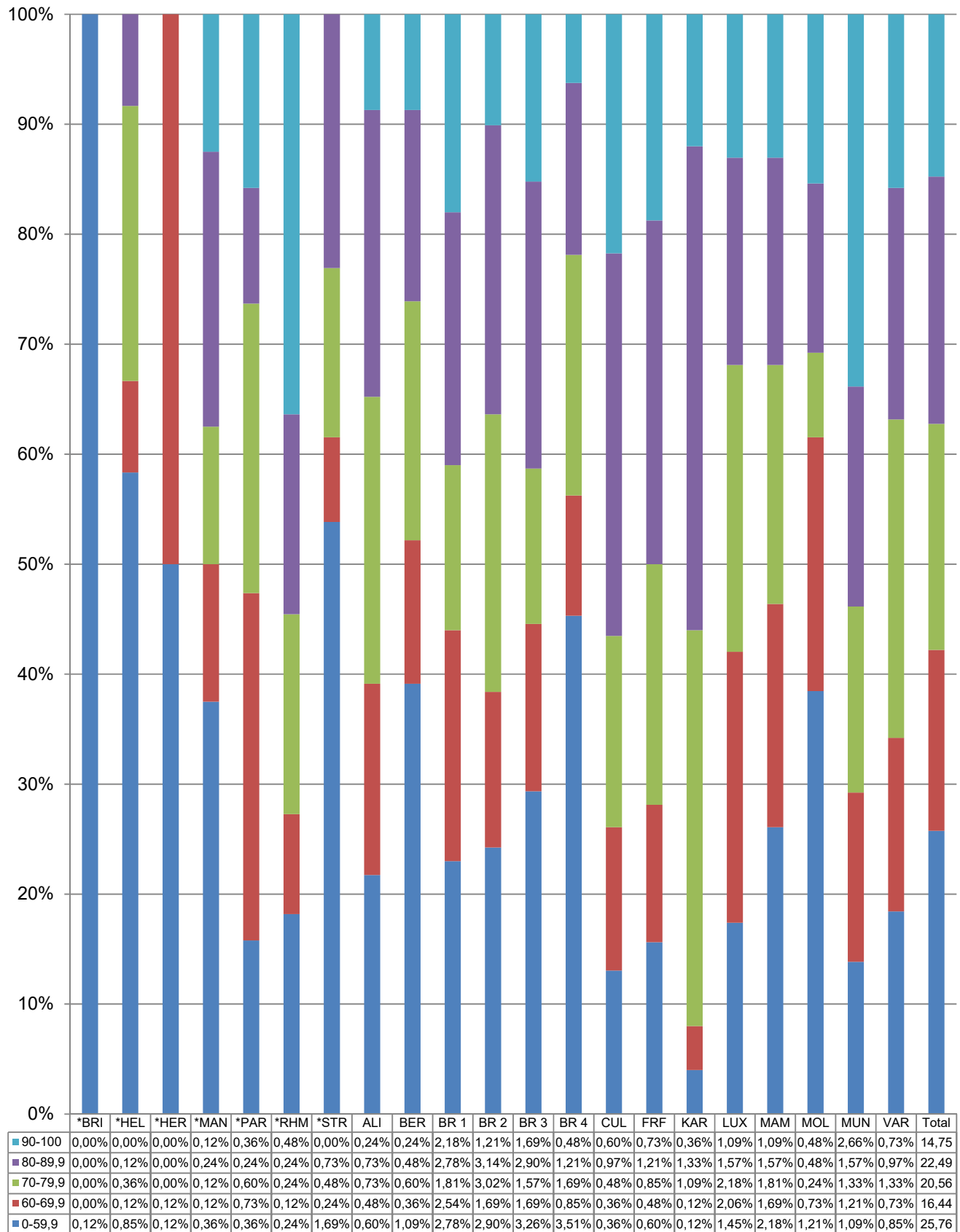
Mathematics 5P Written average (7.11)



Mathematics 5P: comparison W1 W2



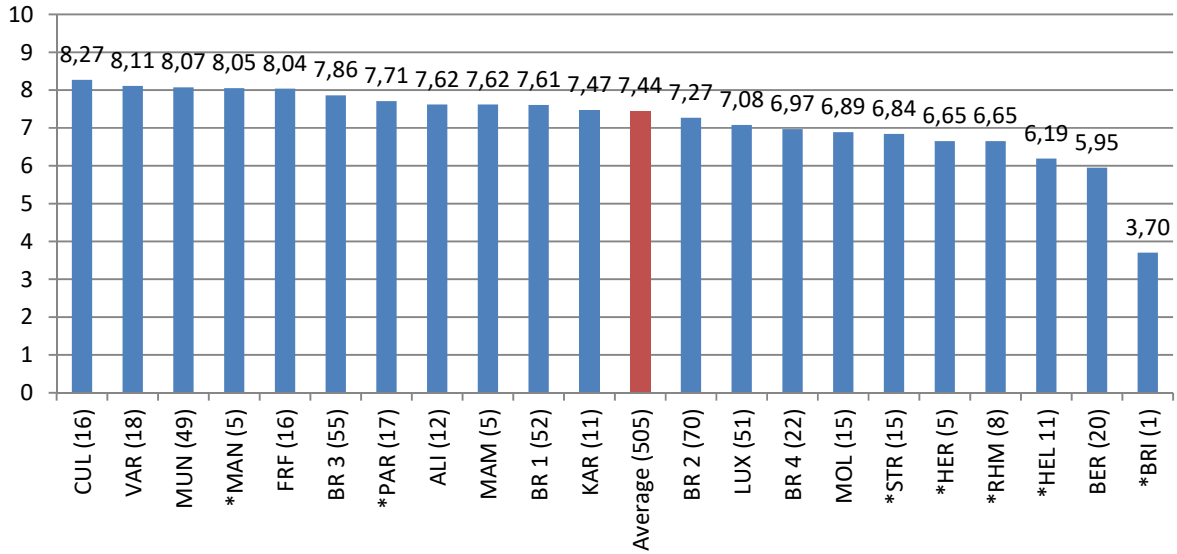
### Mathematics 5P: distribution of written marks



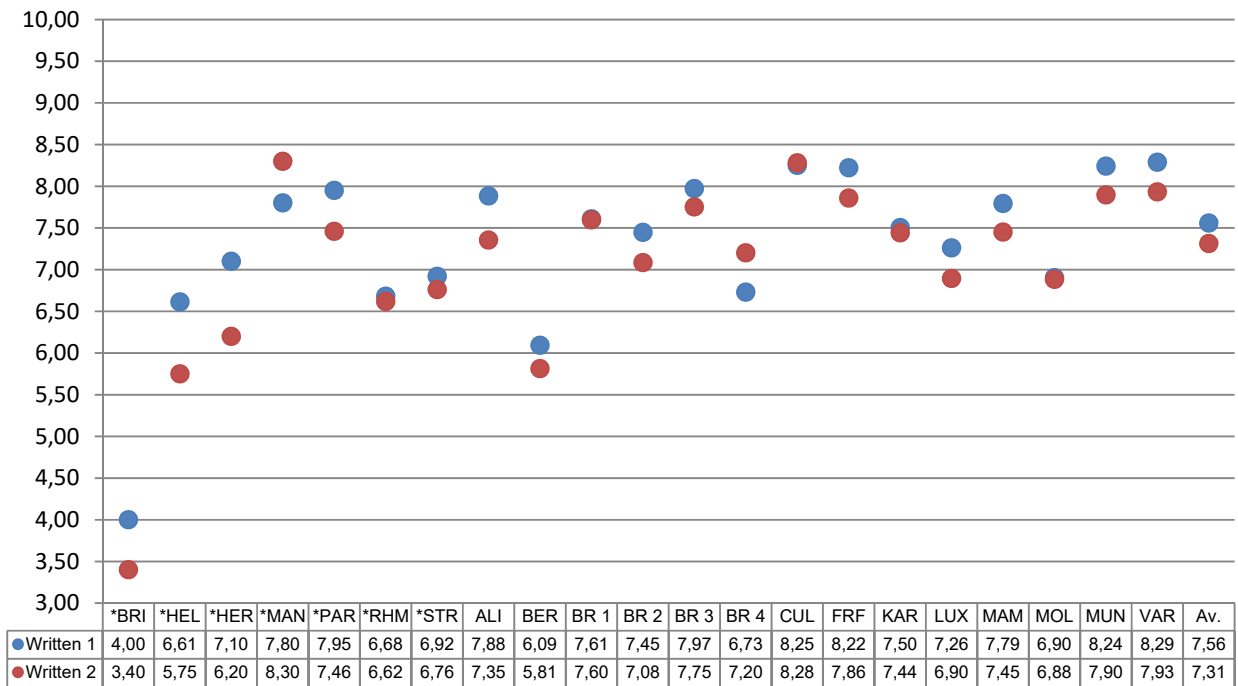
### 5.3.6 Physics (Success rate: 78,22%)

School year	*BRI	*HEL	*HER	*MAN	*PAR	*RHM	*STR	ALI	BER	BR 1	BR 2	BR 3	BR 4	CUL	FRF	KAR	LUX	MAM	MOL	MUN	VAR	Aver.
2012/2013		6,70		9,90	7,05			7,14	5,84	7,73	6,84	8,02		7,97	8,63	8,22	7,20	7,35	7,07	8,31	7,79	<b>7,52</b>
2013/2014		7,43		9,35	7,19		7,14	7,96	7,37	7,39	7,17	8,07		8,48	8,14	8,16	7,18	7,38	8,32	8,10	8,43	<b>7,70</b>
2014/2015		6,03	6,15	6,63	6,45		4,90	6,95	6,57	7,58	6,50	7,70		7,17	7,59	6,76	7,19	7,60	7,91	8,11	7,41	<b>7,22</b>
2015/2016		6,60	7,45	8,08	8,36	5,57	6,92	5,90	6,45	7,73	6,92	7,69		7,96	8,16	7,42	7,56	7,30	6,80	7,81	7,86	<b>7,45</b>
2016/2017	3,70	6,19	6,65	8,05	7,71	6,65	6,84	7,62	5,95	7,61	7,27	7,86	6,97	8,27	8,04	7,47	7,08	7,62	6,89	8,07	8,11	<b>7,44</b>

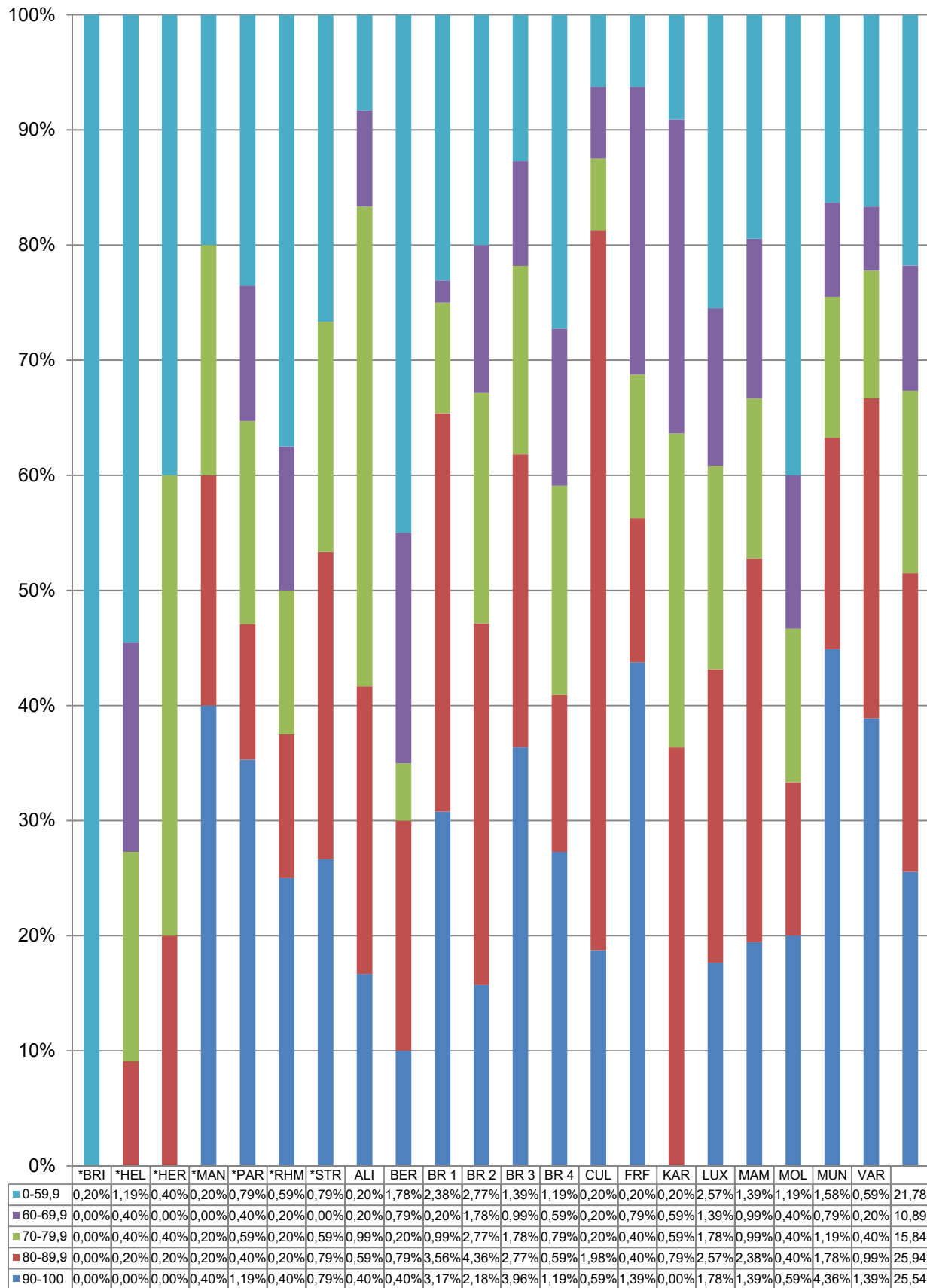
Physics written average (7.44)



Physics: comparison W1 W2



Physics: distribution of written marks



## 5.4 Oral Mark Averages for Science EB Examinations

	Candidates	Oral aver.	Candidates	Oral aver.	Candidates	Oral aver.	Candidates	Oral aver.	Candidates	Oral aver.
School	BI2	BI2	BI4	BI4	CHI	CHI	MAA	MAA	PHY	PHY
*BRI	1	9,00								
*HEL	7	7,64	3	8,83						
*MAN					1	9,00				
*PAR	10	8,38			4	8,50	2	8,75		
*RHM	14	7,32	3	8,83			3	7,75		
*STR	17	7,25	11	8,45			7	8,36	1	6,00
ALI	19	7,17	3	8,17	5	8,95	5	9,00	3	7,17
BER	10	7,35					7	8,32	1	9,50
BR 1	60	8,06	4	6,44	2	8,38	29	8,51	1	9,25
BR 2	45	7,18	19	7,84	6	8,71	23	8,15	4	8,69
BR 3	28	7,29	2	8,75	3	9,00	21	8,62		
BR 4	2	7,38	2	8,75			8	9,13	4	7,50
CUL	10	8,35	7	7,21			3	9,00		
FRF	31	8,21	8	9,22	3	9,00			2	8,88
KAR	15	8,17	7	9,54	2	5,75				
LUX	29	7,24	11	7,48	6	8,17	8	7,88	10	7,95
MAM	24	8,19	10	6,45	2	8,38	10	8,30	1	9,50
MOL	7	7,50	6	7,25			12	8,02		
MUN	20	7,75	14	7,13	14	7,61	12	8,52		
VAR	10	7,23	1	9,50			8	8,91		
	<b>359</b>	<b>7,67</b>	<b>111</b>	<b>7,84</b>	<b>48</b>	<b>8,22</b>	<b>158</b>	<b>8,44</b>	<b>27</b>	<b>8,06</b>

EB 2017 - Science oral averages

