



**Schola Europaea**

European Baccalaureate Unit

Office of the Secretary-General

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**Orig.: EN**

## **Report on European Baccalaureate 2016**

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**Approved by the Board of Governors**

At its meeting on 7<sup>th</sup>, 8<sup>th</sup> and 9<sup>th</sup> December 2016 – OSGES Brussels

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**ABBREVIATIONS:****European Schools:**

AL - European School of Alicante  
 BE - European School of Bergen  
 Br I - European School of Bruxelles I  
 Br II - European School of Bruxelles II  
 Br III - European School of Bruxelles III  
 CU - European School of Culham  
 FR - European School of Frankfurt  
 KA - European School of Karlsruhe  
 LU I - European School of Luxembourg I  
 LU II - European School of Luxembourg II  
 MO - European School of Mol  
 MU - European School of Munich  
 VA - European School of Varese

**Accredited Schools:**

\*HE - European Schooling Helsinki  
 \*HK - School of European Education Heraklion  
 \*MA - École internationale de Manosque  
 \*RM - Europäische Schule RheinMain  
 \*PA - Scuola per l'Europa di Parma  
 \*ST - École européenne de Strasbourg

**Languages and Language sections:**

BG - Bulgarian	ES - Spanish	HU - Hungarian	PL - Polish
CS - Czech	ET - Estonian	IT - Italian	PT - Portuguese
DA - Danish	FI - Finnish	LT - Lithuanian	RO - Romanian
DE - German	FR - French	LV - Latvian	SK - Slovak
EL - Greek	GA - Irish	MT - Maltese	SL - Slovenian
EN - English	HR - Croatian	NL - Dutch	SV - Swedish

**Countries and nationalities:**

AT - Austria	ES - Spain	IE – Ireland	PL - Poland
BE - Belgium	ET - Estonia	IT - Italy	PT - Portugal
BG - Bulgaria	FI - Finland	LT - Lithuania	RO - Romania
CZ – Czech Republic	FR - France	LU - Luxembourg	SK - Slovakia
CY - Cyprus	GR - Greece	LV - Latvia	SI - Slovenia
DE - Germany	HR - Croatia	MT - Malta	SE - Sweden
DK - Denmark	HU - Hungary	NL – The Netherlands	UK – United Kingdom

**Subjects:**

ar4 – Art (4 hours)	hi4 – History (4 hour option)	ma3 – Math (3 hour option)
bi2 – Biology (2 hour option)	l1 – Language I	ma5 – Math (5 hour option)
bi4 – Biology (4 hour option)	l1a – Language I Advanced	maa – Math Advanced
chi – Chemistry	l2 – Language II	mu4 – Music (4 hour option)
eco – Economics	l2a – Language II Advanced	onl – Other National Language
ge2 – Geography (2 hour option)	l3 – Language III	ph2 – Philosophy (2 hour option)
ge4 – Geography (4 hour option)	l4 – Language IV	ph4 – Philosophy (4 hour option)
gre – Ancient Greek	lat – Latin	phy - Physics
hi2 – History (2 hour option)		

## Introduction

The 57<sup>th</sup> session of the European Bacculaureate was chaired by European Bacculaureate President from Denmark, Prof. Dr. Carl Winsløw.

A total of 1891 candidates from 13 European Schools and 6 Accredited Schools registered for the European Bacculaureate 2016 session. 41 candidates were not awarded the European Bacculaureate Diploma: 6 candidates dropped out from the examinations session and 35 candidates failed.

### European Bacculaureate 2016 - participants

<b>Registered</b>	1891
<b>Participated</b>	1885
<b>Abandoned</b>	6
<b>Passed</b>	1850
<b>Failed</b>	35
<b>Success rate</b>	98,1%
<b>Fail rate</b>	1,9%

### European Bacculaureate 2016 – Average rates

<b>Overall Average for the Final Mark</b>	78,3
<b>Overall Average for the Preliminary Mark</b>	80,0
<b>Overall Average for Written Examinations</b>	74,5
<b>Overall Average for Oral Examinations</b>	81,8

152 experts participated in the elaboration of 151 main examination papers and 132 reserve papers. Each examination paper was accompanied by suggested answers, assessment criteria, marking instructions and marking grid.

The present report will provide a general overview of the results of the European Bacculaureate 2016 session, its complete records can be found in the annexes.

# 1. Organisation

## 1.1. Inspectors responsible for the different subjects

SUBJECT	LANGUAGE	INSPECTOR RESPONSIBLE FOR THE SUBJECT
ART		Ms K. NILSSON
BIO		Mr M. WOLFF
CHIM		Mr A. COENEN
ECO		Ms Z.I. SOFRONIEVA
EL ANC.		Ms M. KALOGRIDOU
GEO		Ms Z.I. SOFRONIEVA
HIST		Ms H. COELHO
LI	BG	Ms Z.I. SOFRONIEVA
	CS	Ms O. DRÁPALOVÁ
	DA	Mr L. DAMKJAER
	DE	Mr S. WALZ & Ms K.M. ECKERSTORFER
	EL	Ms M. KALOGRIDOU
	EN	Ms M. HADLEY
	ES	Mr J. GARALLON BARBA
	ET	Ms M. KITSING
	FI	Ms T. HUISMAN
	FR	Mr D. WILLÉ
	HR	Ms J. ANIČIĆ
	HU	Ms Z. NYÍRŐ
	IT	Ms D.SACCARDO
	LT	Ms V. VALIUŠKEVIČIENĖ
	LV	Ms O. ARKLE
	MT	Mr G. MIFSUD
	NL	Ms L. VAN DEN BOSH & Ms E. VERMEIRE
	PL	Mr K. LESZCZYŃSKI
	PT	Ms H. COELHO
	RO	Ms A.-D. PETRACHE
SK	Ms J. HANDZELOVÁ	
SL	Ms M. POZNANOVIČ-JEZERSEK	
SV	Ms K. NILSSON	
LII, III, IV	DE	Ms K.M. ECKERSTORFER & Mr S. WALZ
	EL	Ms M. KALOGRIDOU & Mr L. ANASTASIADES
	EN	Ms M. HADLEY & Ms L. Ó TOOLE
	ES	Mr J. GARALLON BARBA
	FI	Ms T. HUISMAN
	FR	Mr D. WILLÉ
	GA	Ms L.Ó TOOLE
	IT	Ms D. SACCARDO
	MT	Mr G. MIFSUD
	NL	Ms L. VAN DEN BOSH & Ms E. VERMEIRE
	PT	Ms H. COELHO
SV	Ms K. NILSSON	
LATIN		Mr D. WILLÉ
MATH		Mr L. LOUYS
MUS		Mr S. WALZ
ONL	FI	Ms T. HUISMAN
	GA	Ms L.Ó TOOLE
	MT	Mr G. MIFSUD
	SV	Ms T. HUISMAN
PHILO		Ms E. VERMEIRE & Ms M. KALOGRIDOU
PHYS		Mr L. LOUYS

## 1.2. Quality assurance

The European Baccalaureate examinations are elaborated under the responsibility of the secondary cycle inspectors listed above assisted by teams of external experts. They assure their quality.

The Board of Inspectors 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 will be performed by independent experts with experience in the field of assessment proposed by the Chairman of the European Baccalaureate Examining Board.

For the European Baccalaureate session of 2016, the examination papers of Mathematics and Biology were audited externally and they were found fit for purpose.

## 1.3. Quality control of the European Baccalaureate examinations proceedings

Quality control of the written and oral examinations in the 19 participating schools was carried out by 30 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 four days per center throughout the oral examinations' period. This year the supervision of the examination centers was distributed as follows:

School	Vice-Chairmen
▶ AL	Ms T.Huisman
▶ BE	Ms D.Saccardo
▶ Br I	Mr L.Anastasiades, Ms M.Kitsing
▶ Br II	Ms J.Aničić, Ms L.van den Bosh
▶ Br III	Mr J.Garralon Barba, Ms M.Poznanovič-Jezersek, Ms E.Vermeire
▶ CU	Ms M.Hadley
▶ FR	Ms K.M.Eckerstorfer, Ms A.-D.Petrache
▶ KA	Ms H.Coelho
▶ Lux I	Mr K.Leszczynski, Mr L.Louys, Mr M.Wolff
▶ Lux II	Mr G.Mifsud, Ms K.Nilsson
▶ MO	Ms O.Drápalová, Ms J.Handzelová
▶ MU	Ms Z.Nyíró, Mr L.Louys, Mr M.Wolff
▶ VA	Ms Z. Sofronieva, Mr D.Willé
▶ HE	Mr A.Coenen
▶ HK	Ms M.Kalogridou
▶ MA	Ms O.Arkle
▶ PA	Ms V.Valiūškeviciene
▶ RM	Mr S.Walz
▶ ST	Ms L.Ó Toole
▶ Accompanying the Chairman	Mr L.Damkjaer

## 1.4. Structure of the examinations

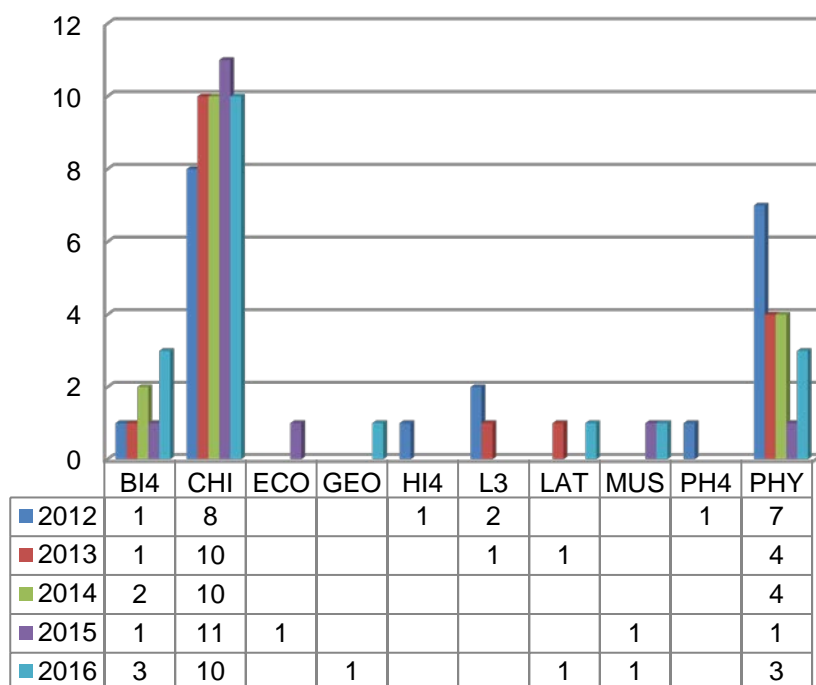
All candidates sat 5 written examinations and 3 oral examinations. The examinations concern the following subjects:

<b>5 written examinations</b>	LI – basic <u>or</u> advanced course
	LII – basic <u>or</u> advanced course
	Mathematics–3 periods or 5 periods course
	Two 4 period options
<b>3 oral examinations</b>	LI – basic <u>or</u> advanced course
	LII – basic <u>or</u> 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).

## 1.5. Organisation of additional written examinations

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

**Additional Written Examinations**



21 requests were received this year, 19 were accepted. 3 candidates finally withdrew their request, so only 16 additional written examinations were taken under article 13.

## 1.6. Number of pupils who registered for the 2016 Baccalaureate session

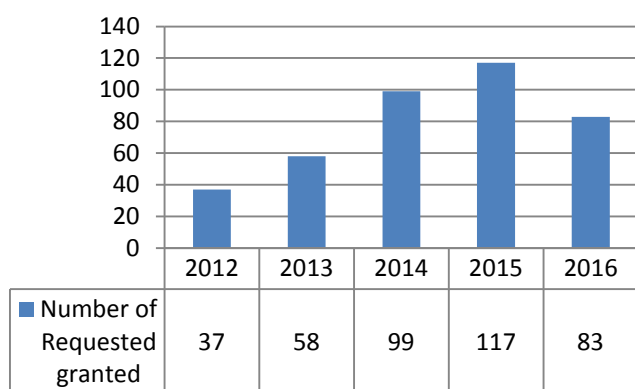
The number of candidates who registered for the 2016 Baccalaureate examination session, by school and by language section, can be seen in the following table:

Ling. section	*HE	*HK	*MA	*PA	*RM	*ST	AL	BE	BR I	BR II	BR III	CU	FR	KA	LU I	LU II	MO	MU	VA	Total
DA									10							20				30
DE					29	19	10		24	25	38	10	22	32	23	15	6	77	22	352
EL		5									41					12				58
EN	1		22	6	25	19	22	14	59	39	38	22	24	30	38	18	14	28	35	454
ES							28		23		41				19					111
FI	3									23					15					41
FR	5			3		24	12	11	99	68	69	14	15	10	26	33	17	25	16	447
HU									15											15
IT				18					23	25			22			25		21	45	179
NL								20		18	20				20		20	4	9	111
PL									12						6					18
PT										29					18					47
SV										9					19					28
<b>Total</b>	<b>9</b>	<b>5</b>	<b>22</b>	<b>27</b>	<b>54</b>	<b>62</b>	<b>72</b>	<b>45</b>	<b>265</b>	<b>236</b>	<b>247</b>	<b>46</b>	<b>83</b>	<b>72</b>	<b>184</b>	<b>123</b>	<b>57</b>	<b>155</b>	<b>127</b>	<b>1891</b>

6 candidates dropped out from the examination session during the school year bringing the total number of participants to 1885:

School	*HE	*HK	*MA	*PA	*RM	*ST	AL	BE	BR I	BR II	BR III	CU	FR	KA	LU I	LU II	MO	MU	VA	Total
<b>Total</b>	<b>9</b>	<b>5</b>	<b>22</b>	<b>27</b>	<b>54</b>	<b>62</b>	<b>72</b>	<b>45</b>	<b>265</b>	<b>236</b>	<b>246</b>	<b>46</b>	<b>83</b>	<b>72</b>	<b>182</b>	<b>123</b>	<b>57</b>	<b>152</b>	<b>127</b>	<b>1885</b>

## 1.7. Candidates with Special Educational Needs



Article 15 and Annex IX of the Arrangements for implementing the Regulations for the European Baccalaureate permits candidates with special educational needs to apply for special arrangements for taking of their examinations.

Appropriate arrangements were made for 83 pupils with special educational needs.

10 out of 83 cases were filed outside the usual procedure due to exceptional circumstances and were approved by Board of Inspectors

Secondary at its meeting in June.



The most common special arrangements that were granted this year were:

- 10 minutes' extra time per examination hour,
- 10 minutes' extra time for preparation of the oral examinations,
- use of a computer with or without a spellchecker,
- presence of a reader and presence of a scribe.

### 1.8. Complaints and appeals

The Biology written examination paper of 2016 received a good number of complaints that were sent either directly to the Office of the Secretary General, through the school directors or through INTERPARENTS. Most of the complaints referred to the level of difficulty of the paper in general, to the types of questions being asked or to whether the questions were syllabus relevant.

Many of these claims were posted in the social media which contributed to generate more controversy. INTERPARENTS helped a lot by collecting and classifying the different claims, which were forwarded to the inspector responsible for the subject for his consideration.

The inspector issued some additional marking instructions to the correctors. The distribution of marks fell within normality, so moderation of the marks was not considered appropriate.

The examination paper and other relevant documents were sent to an external expert, proposed by the Chairman of the Examining Board, for analysis and assessment. A report was produced that stated that the paper was fit for purpose.

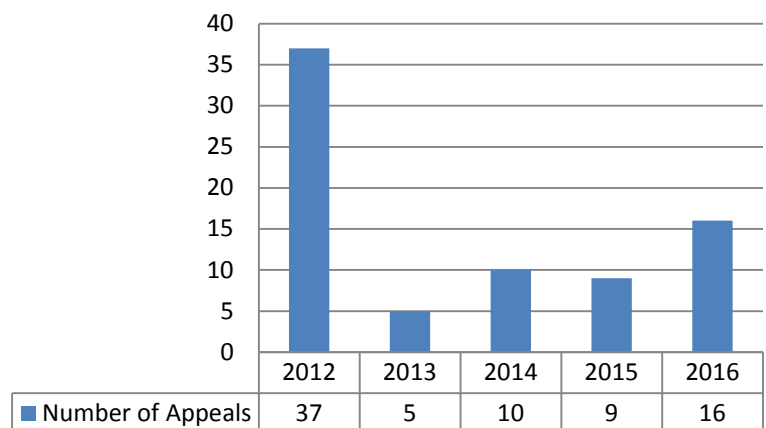
The inspector also produced a very detailed report where he addressed all claims. This report was sent to the schools and INTERPARENTS for transparency's sake.

All in all, only 1 appeal concerned the Biology paper.

In accordance with Article 12 of the Arrangements for implementing the Regulations for the European Baccalaureate, an administrative appeal may be lodged with the Chairman of the Baccalaureate Examining Board. The appeal may only concern a procedural irregularity.

Under Article 12.2. of the same Arrangements it is stated that: *“A complaint or an appeal may only concern a procedural irregularity. A procedural irregularity occurs in the event of non-compliance with the provisions concerning the European Baccalaureate adopted by the Board of Governors and the Board of Inspectors (Secondary)”*.

### Number of Appeals



The table on the right shows the number of appeals lodged over the past five years.<sup>1</sup>

1 SEN pupil, who had failed, lodged an administrative and later a contentious appeal. He was granted the possibility to re-take an examination but unfortunately failed again.

<sup>1</sup> At the end of European Baccalaureate 2012 a collective appeal was launched against the results in the written Chemistry examination. Some of the people who had signed the collective appeal also made an individual appeal. The total number of appeals thus includes all these appeals as well as the ones not related with the Chemistry examination.

In the absence of an irregularity, administrative appeals are rejected.

- **Administrative appeals**

Of the 1885 candidates who participated in the examination session 2016, 16 lodged an administrative appeal.

6 appeals were accepted. All of them were based in a procedural irregularity. In all cases, the procedural irregularity was that some marks awarded lacked a justifying comment either of the first or second corrector or both. In this case, pupils were offered a re-sit of the examination.

1 of the accepted administrative appeals also turned into contentious but it was later withdrawn.

10 administrative appeals were rejected out of which 4 turned into contentious appeals.

- **Contentious appeals**

Administrative decisions taken on the appeals referred to in Article 12 may be the subject of a contentious appeal. Contentious appeals can be lodged before the Complaints Board by the candidate himself or by his/her legal representatives, if they are minors.

Five contentious appeals were lodged before the Complaints Board in the 2016 Baccalaureate session.

One appeal was withdrawn, two are still open and two were rejected by the Complaints Board.

## 2. Analysis of the 2016 Baccalaureate results

### 2.1. Participation in the examinations by school and by language section

Of the 1891 pupils registered for the Baccalaureate at the start of the 2015-2016 school year, 1885 actually took part in the examinations, 6 pupils having given up their studies in mid-year or during the Baccalaureate session.

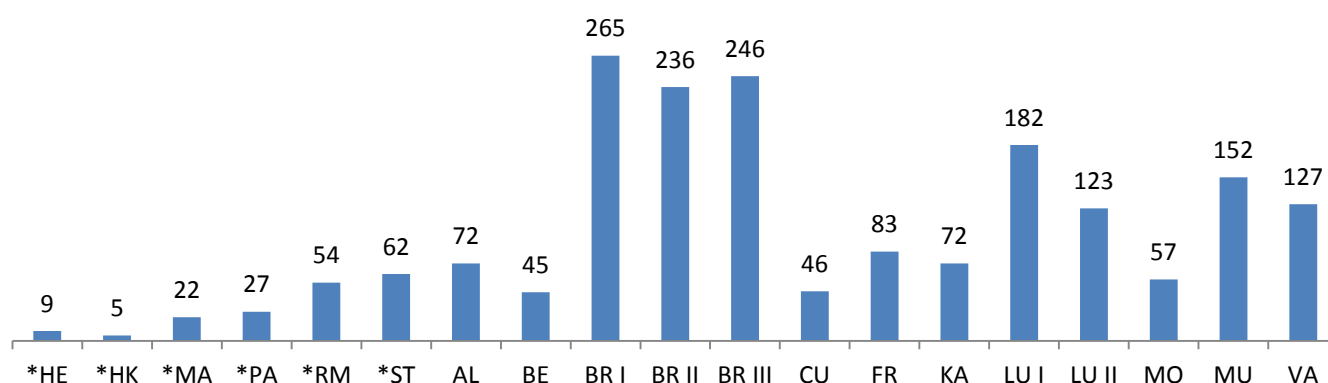
During the written examinations 8 candidates were partially absent due to medical reasons and 11 due to participation in National Examinations, namely the Spanish Selectividad. 21 substitute examinations were organised in June 2016.

3 candidates were allowed to take part in an extraordinary session in September 2016, 10 substitute examinations were organised accordingly.

7 written examinations were organised for the accepted appeals cases.

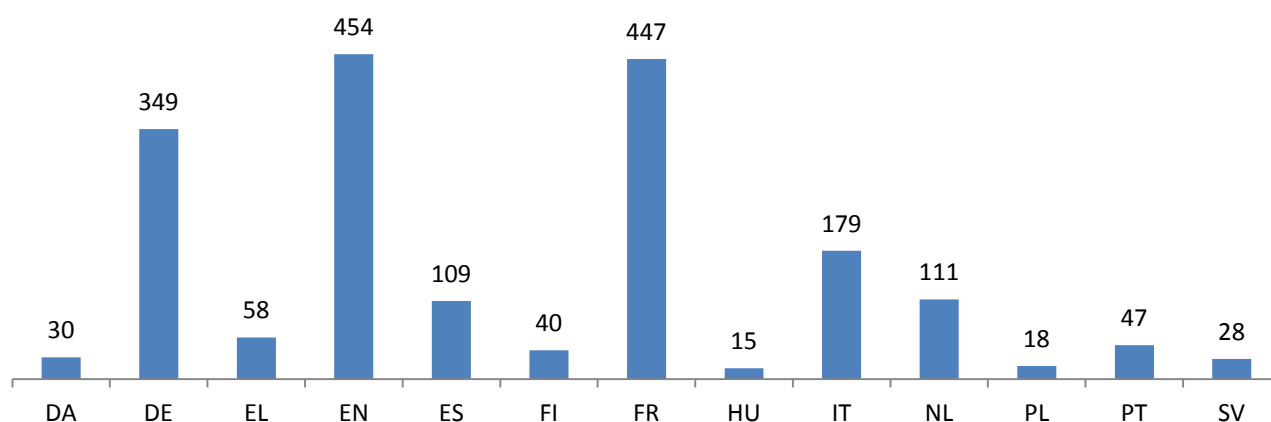
The largest number of Baccalaureate candidates per school came from the European School of Brussels I (265).

**Number of candidates per school**



The largest number of Baccalaureate candidates per language section can be found in the English language section, with 454 candidates, closely followed by candidates from the French section, 447, and the German section, 349.

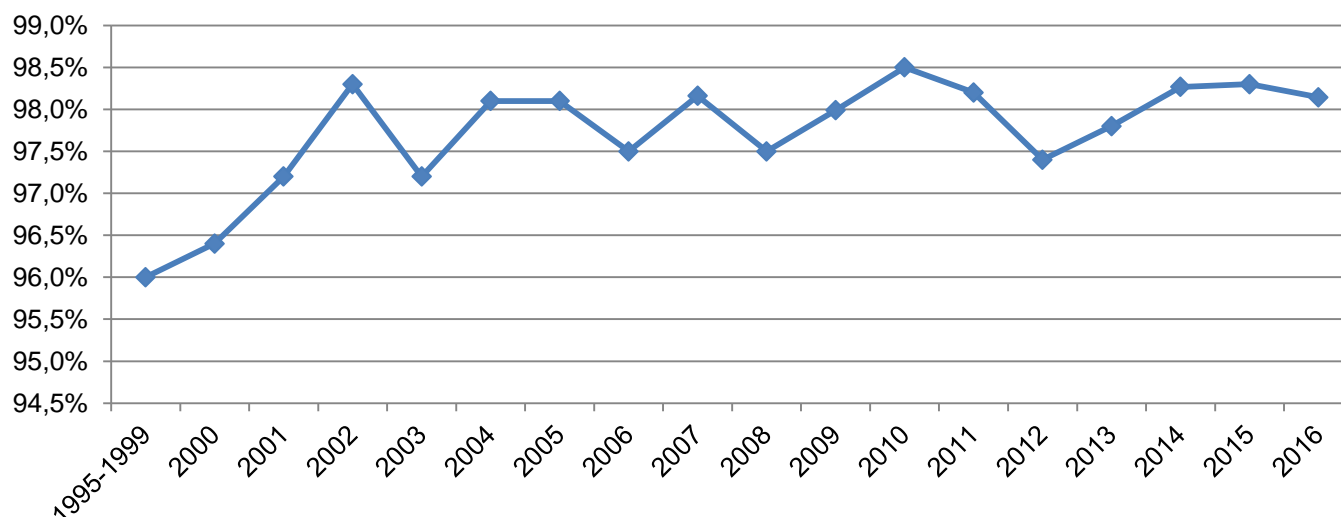
### Number of candidates per language section



## 2.2. Success rate

School	Candidates	Passed	Success rate
*HE	9	8	88,9%
*HK	5	5	100,0%
*MA	22	22	100,0%
*PA	27	27	100,0%
*RM	54	53	98,1%
*ST	62	61	98,4%
AL	72	72	100,0%
BE	45	45	100,0%
BR I	265	256	96,6%
BR II	236	226	95,8%
BR III	246	242	98,4%
CU	46	46	100,0%
FR	83	83	100,0%
KA	72	71	98,6%
LU I	182	179	98,4%
LU II	123	123	100,0%
MO	57	57	100,0%
MU	152	147	96,7%
VA	127	127	100,0%
<b>Total</b>	<b>1885</b>	<b>1850</b>	<b>98,1%</b>

### Success rate



A comparison of Success rates over last 20 years shows that the European Baccalaureate situation stays stable.

The following table shows the success rate in the different language sections. This year, the success rates by language section ranged between 93,6% and 100%. Due to small numbers of bachelors in some sections the results are not always statistically comparable.

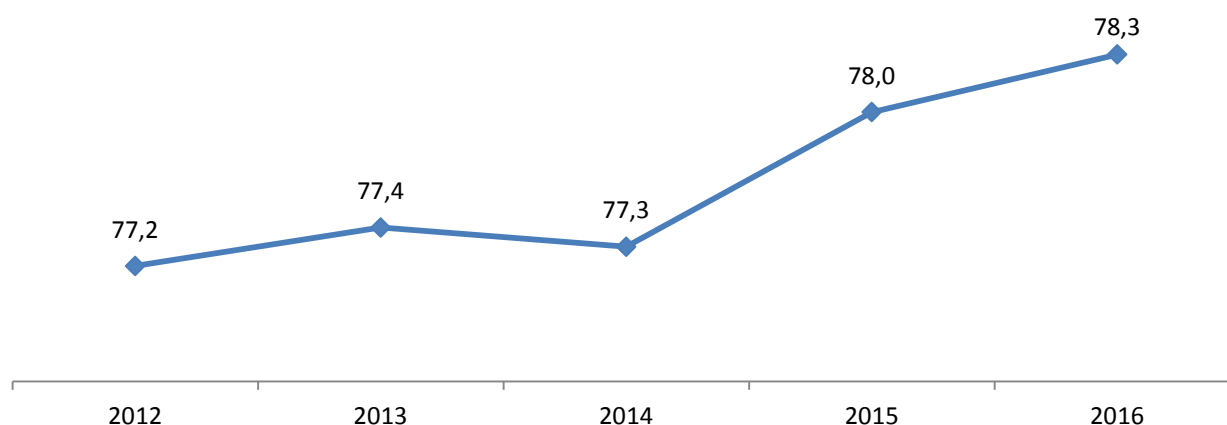
### Success rate by language section

Ling. Section	Passed	Candidates	Success rate
DA	29	30	96,7%
DE	343	349	98,3%
EL	57	58	98,3%
EN	446	454	98,2%
ES	105	109	96,3%
FI	40	40	100,0%
FR	439	447	98,2%
HU	15	15	100,0%
IT	178	179	99,4%
NL	109	111	98,2%
PL	17	18	94,4%
PT	44	47	93,6%
SV	28	28	100,0%
<b>Total</b>	<b>1850</b>	<b>1885</b>	<b>98,1%</b>

### 2.3. Final averages

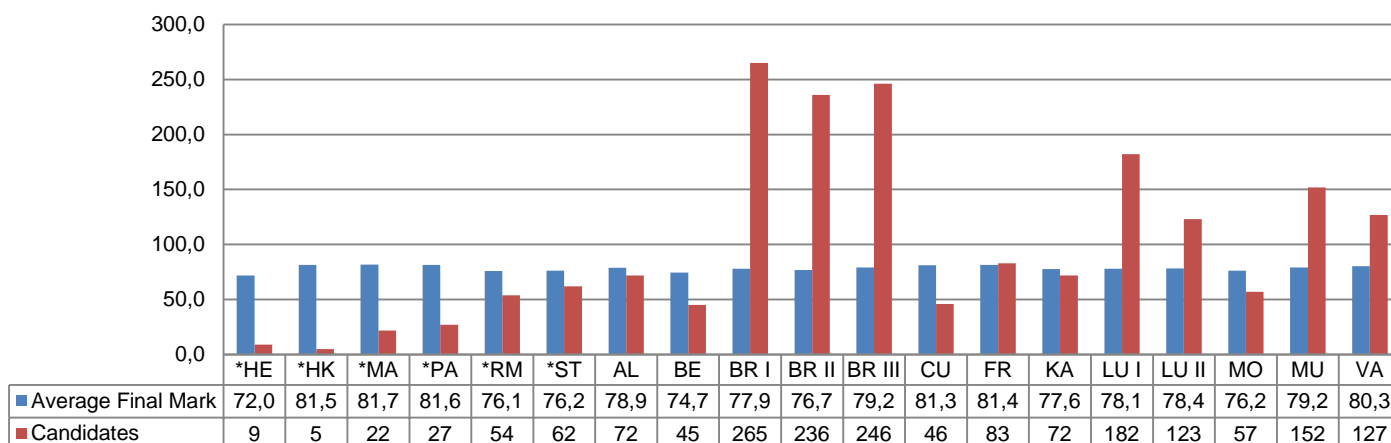
For all the candidates who participated in the 2016 session of the Baccalaureate, the average Final Mark amounted to 78,3. A comparison of the Final Marks shows a slight rise throughout the past 5 years.

### Overall average of past five years



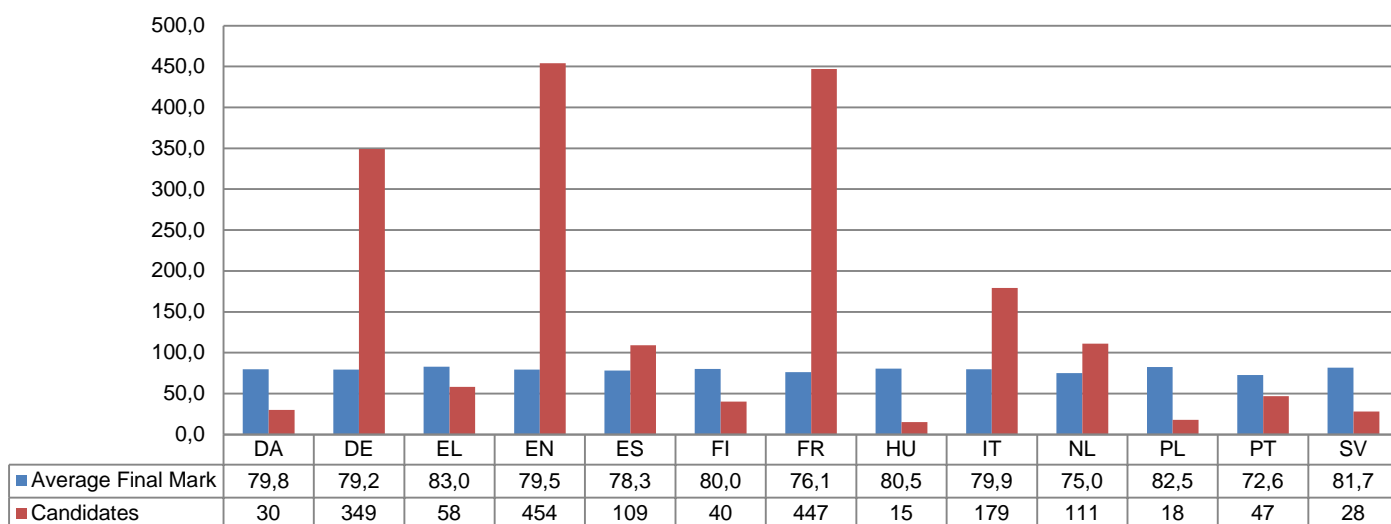
This year the average Final Mark ranged between 72,0 and 81,7 throughout schools:

### Final Mark Average per School

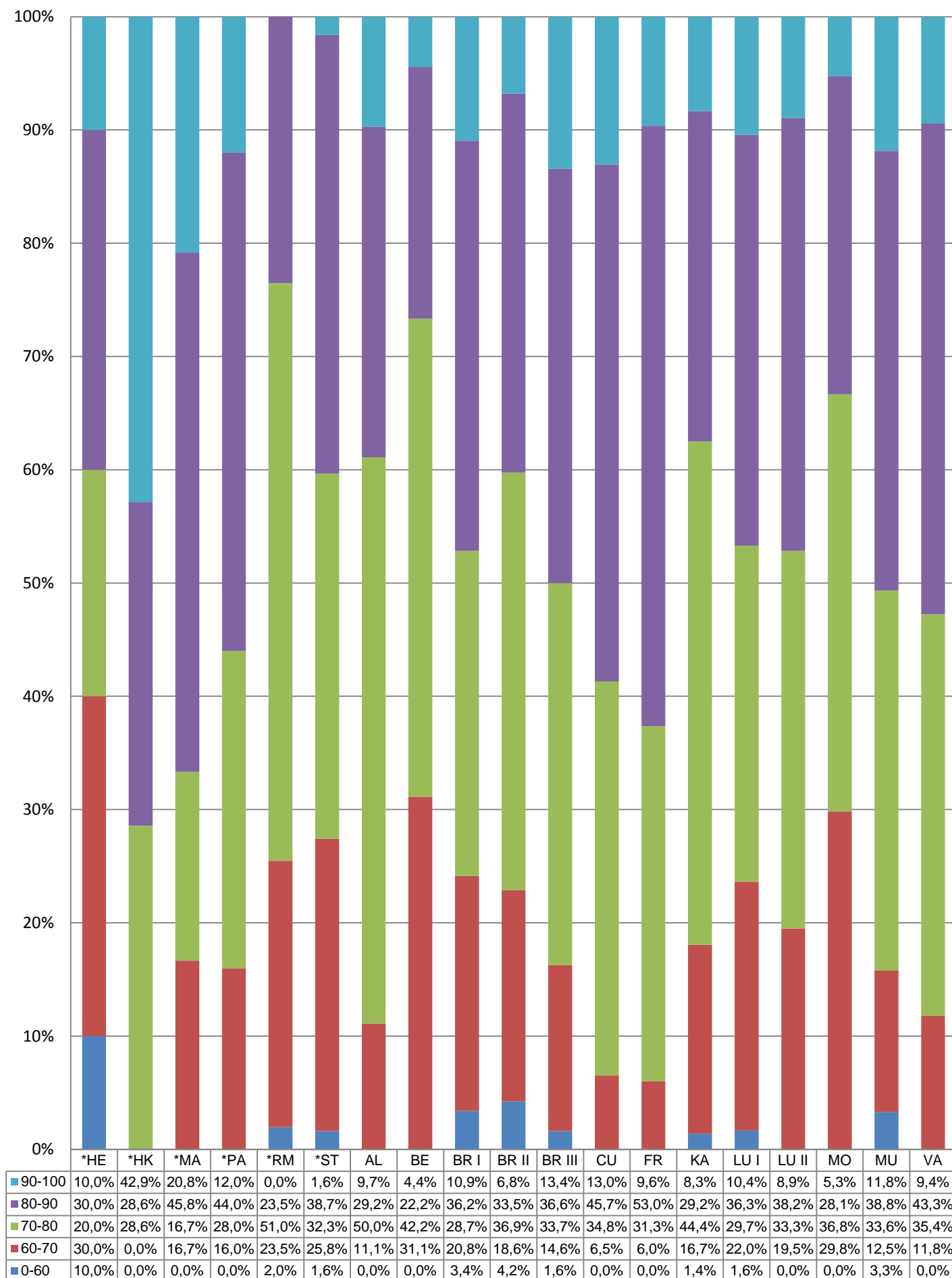


Throughout the Language Sections the average Final Mark ranged between 72,6 and 83,0. Small number of candidates in certain sections doesn't allow the average to be regarded as statistically significant.

### Final Mark Average per Language Section

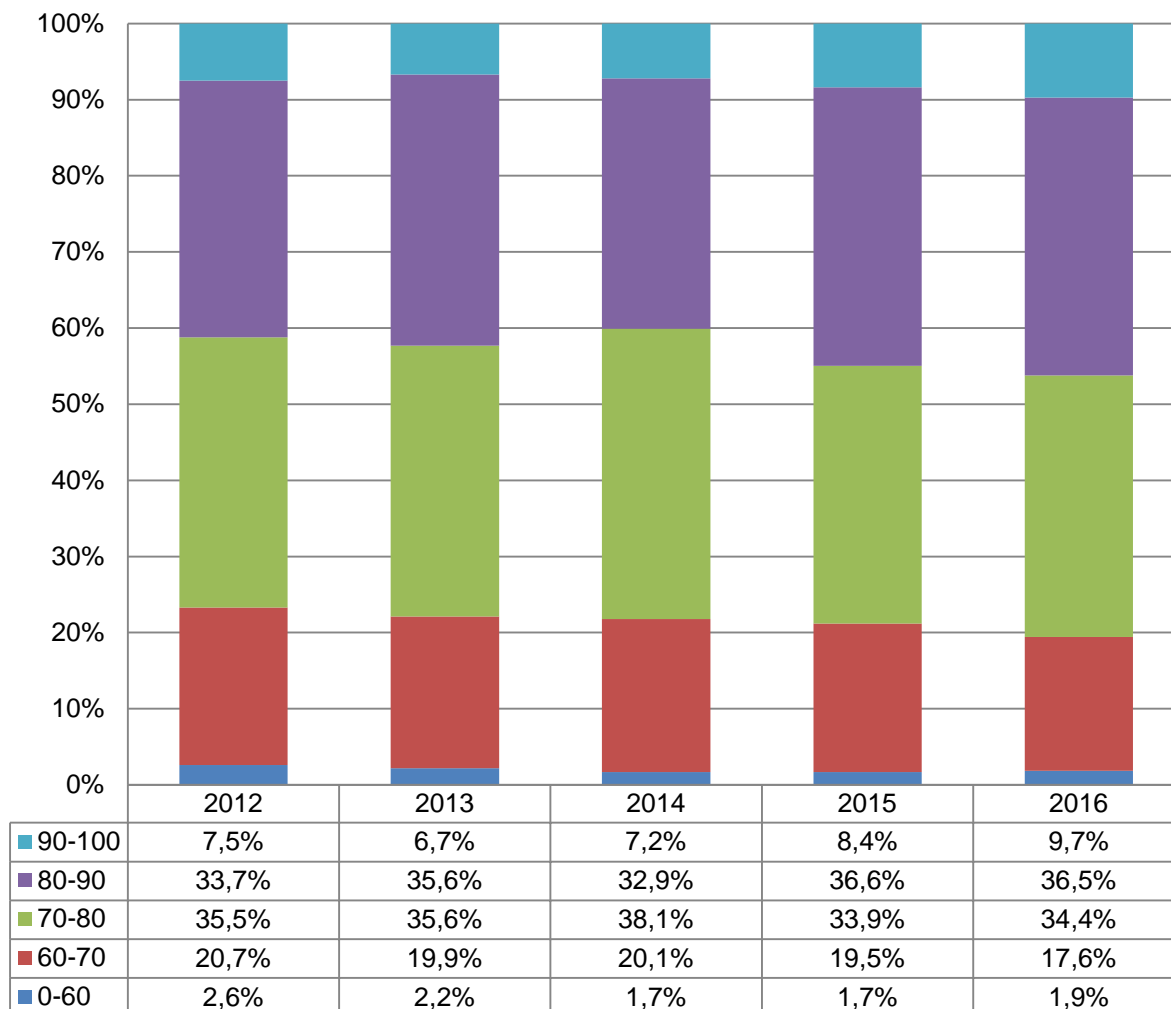


The following table shows the distribution of Final Marks in the different Schools:



## 2.4. Breakdown of final results throughout past five years

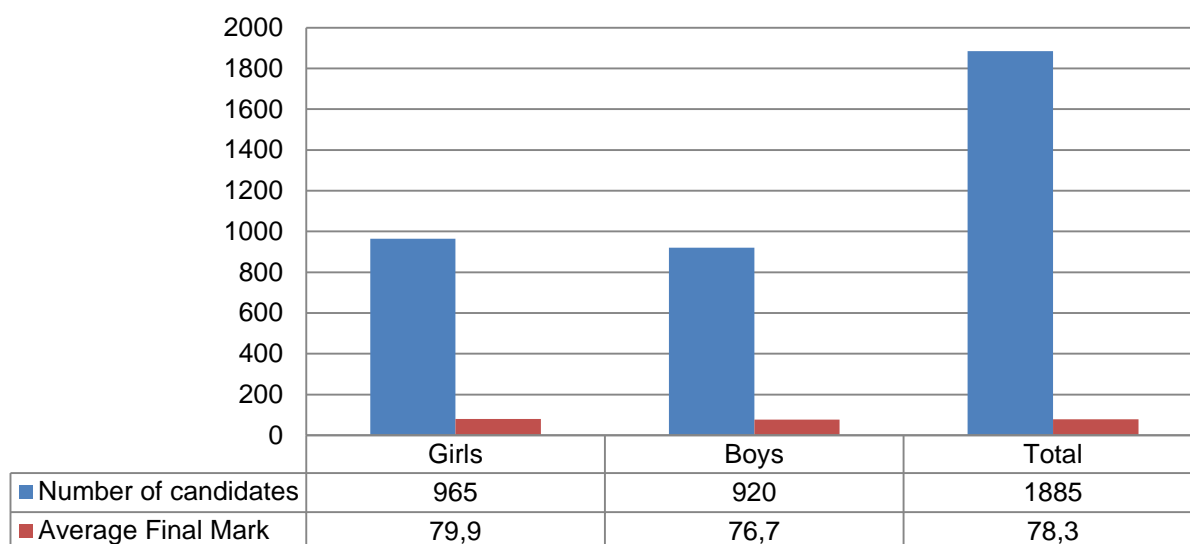
The overview of the results of the past 5 years shows a progressive trend, even though moderate, for the improvement of the overall results.



## 2.5. Gender differences

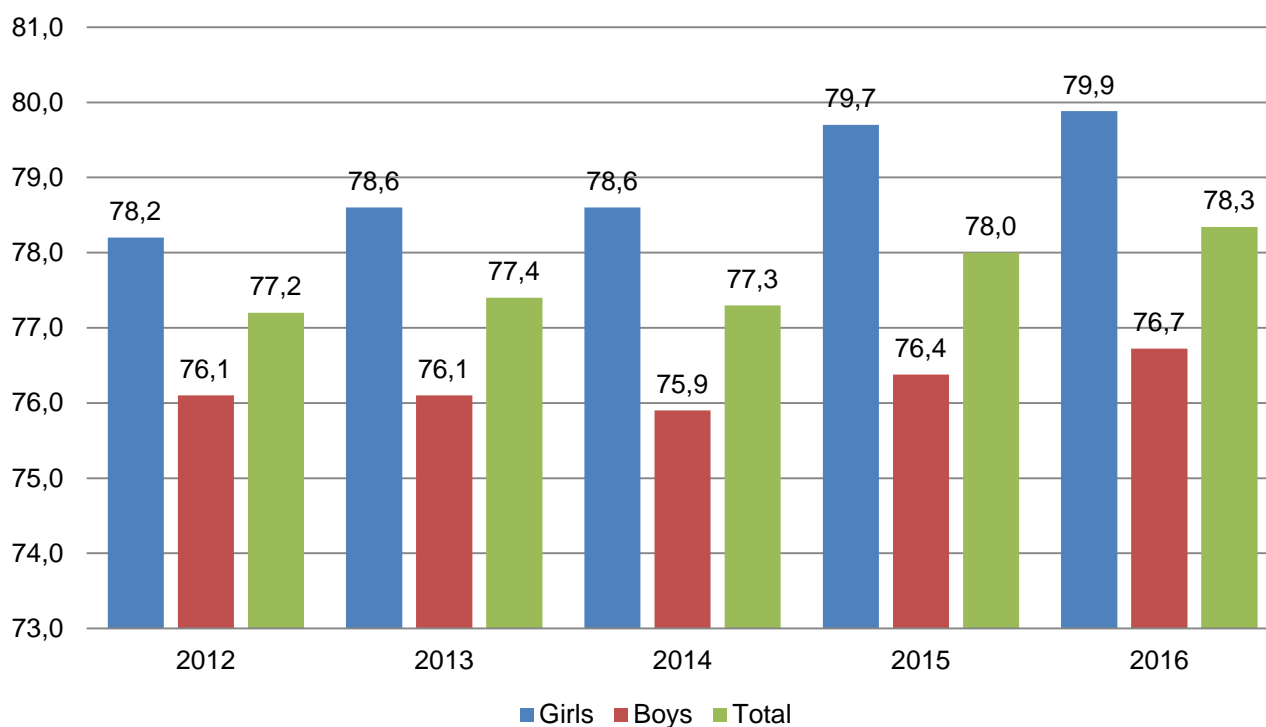
Female candidates score a higher Final Mark as it can be observed in this graph.

Final Mark Average per gender

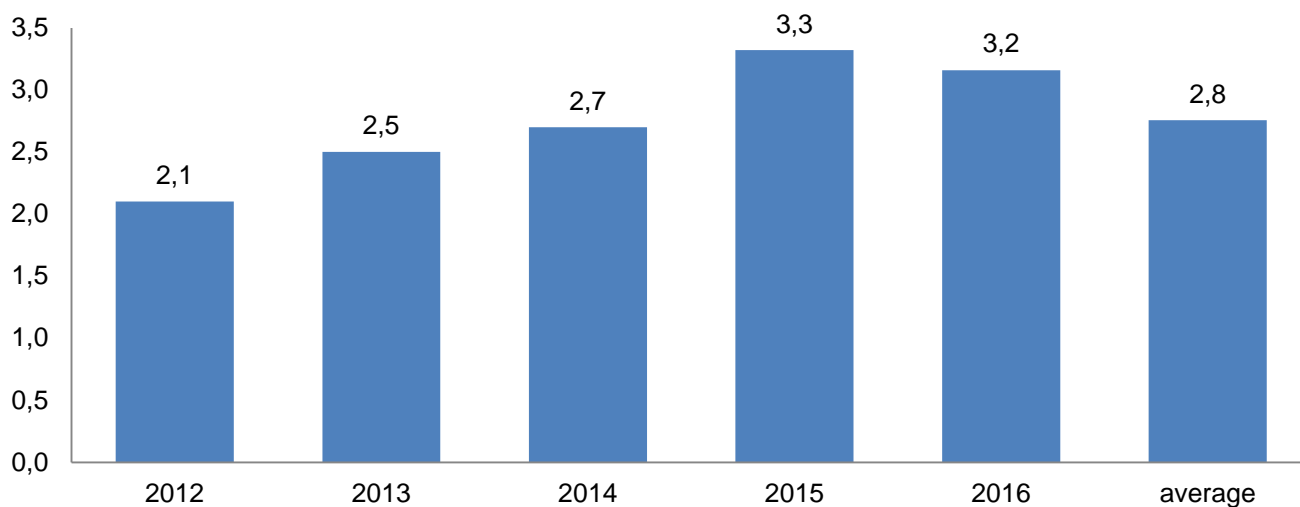


This is a general trend in the last 5 years.

**Final Mark Average per gender, 2012-2016**



**Difference in Average Final Marks between genders, 2012-2016**

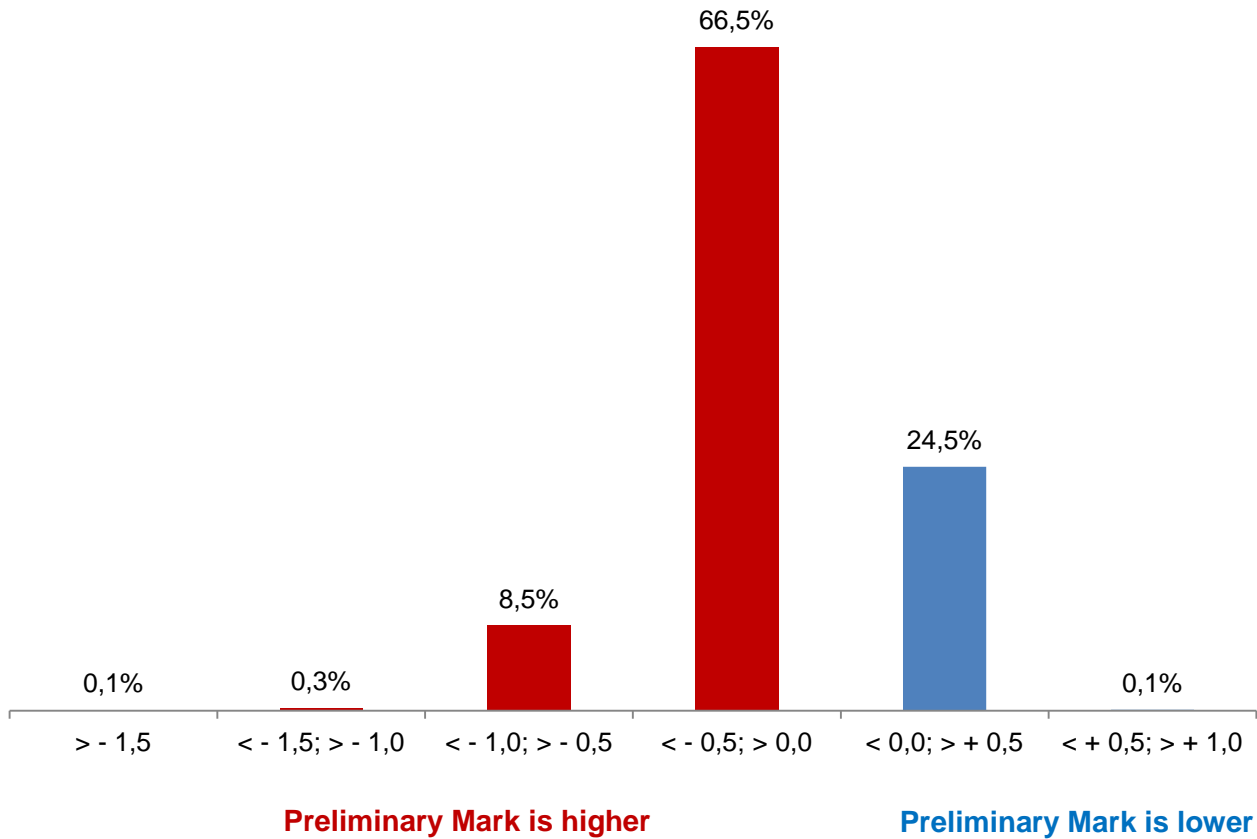


## 2.6. The Preliminary and Final Marks

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



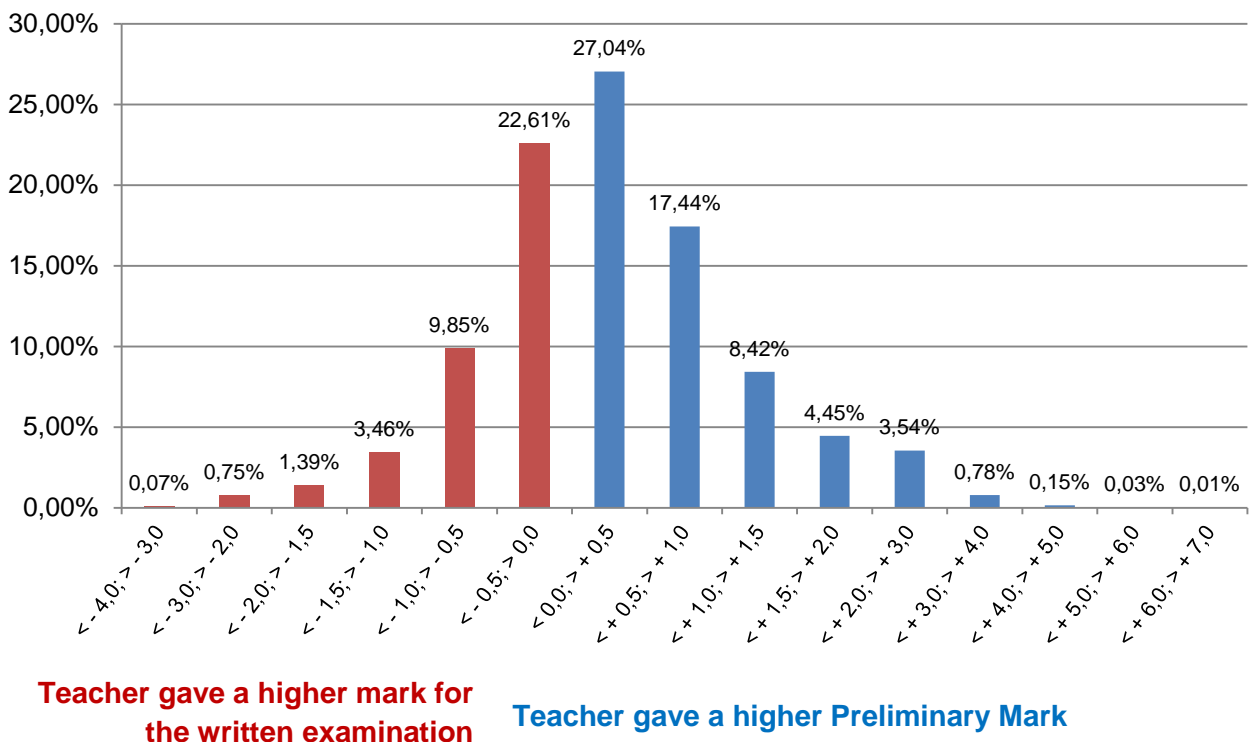
### Differences between Preliminary Mark and Final Mark (Ranges)



75,5% of the candidates got a higher Preliminary Mark as compared to their Final Mark. However in 66,5% of these cases the difference was not greater than 0,5. In 91% of the candidates the difference between the Preliminary Mark and Final Mark shows deviation of +/- 0,5.

### 2.7. Differences between Preliminary Mark and First Correction

#### Difference between Preliminary Mark and First Correction



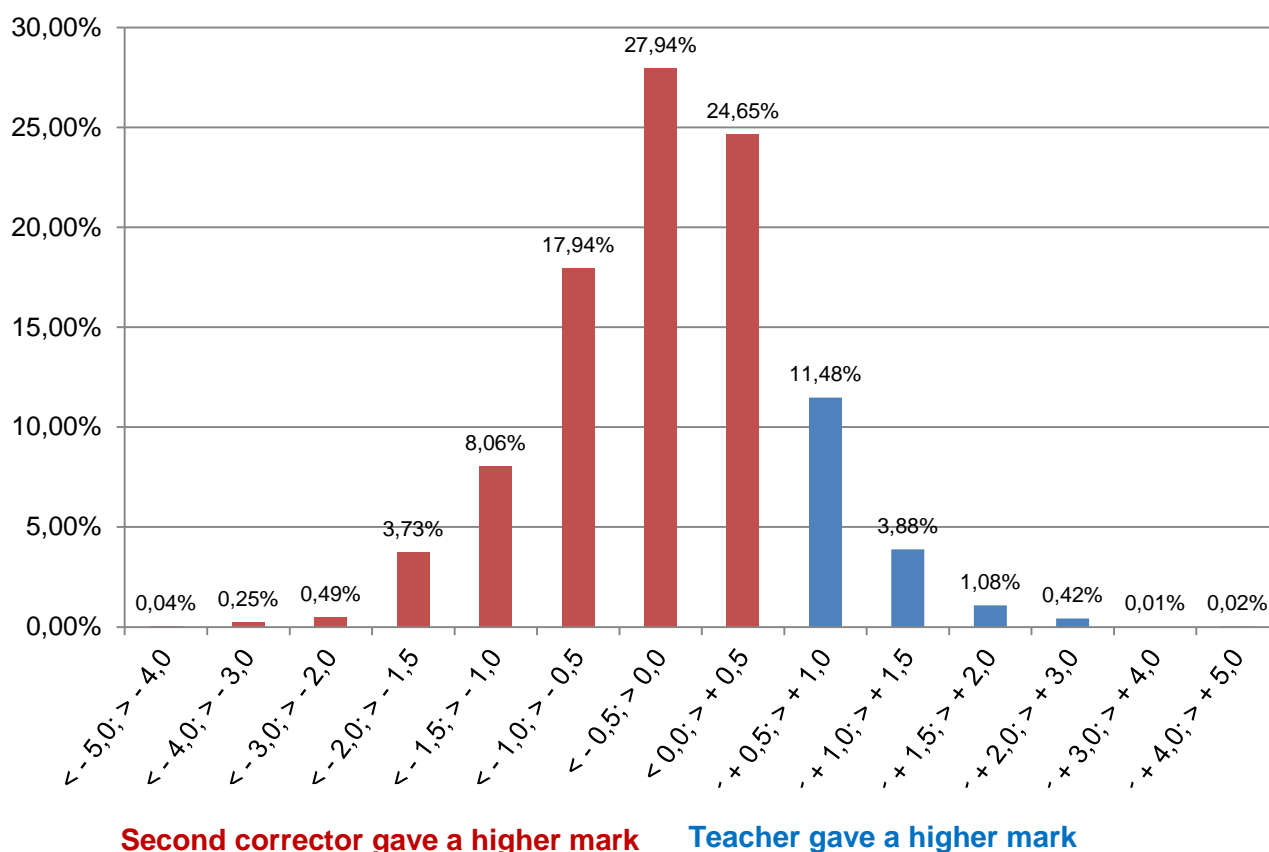
It can be observed here that the variation of marks is greater. For around 46% of the cases, the variation is  $\pm 0,5$  and for around 72 % of the cases the variation is  $\pm 1$ . Only 35% of the pupils receive higher marks from their teachers in the written examinations a compared to the preliminary mark.

## 2.8. Differences between First Correction and Second Correction

45,8% of candidates received a higher mark from their first corrector, the teacher.

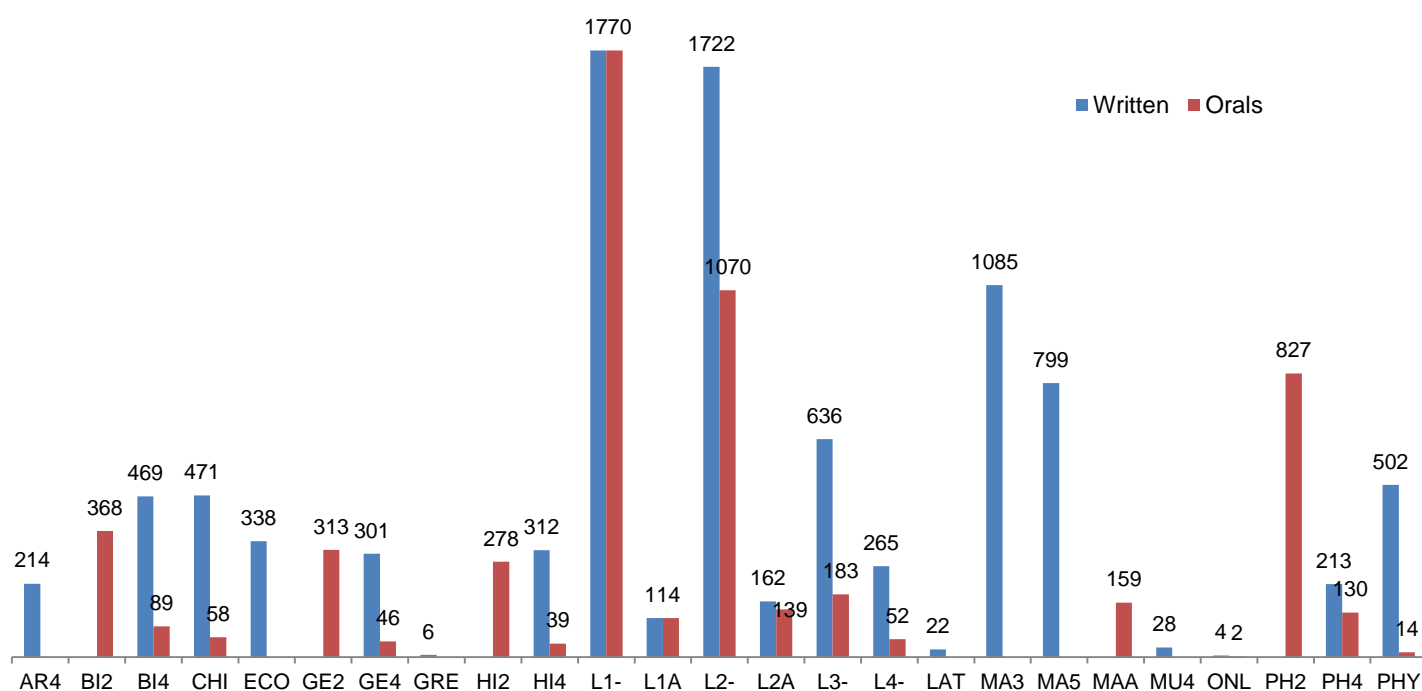
In 55,4% of the cases the difference between first and second correction in written examination was  $\pm 0,5$  points.

**Difference between First and Second Correction**



## 2.9. Most popular examination choices in written and oral examinations

## Number of candidates per examination (written and oral)

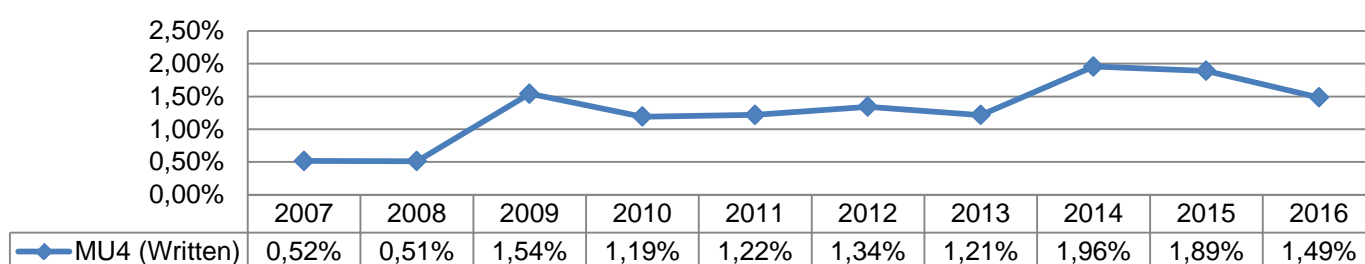


The five most chosen options for the written examinations this year were: Language III (English LIII being the most popular choice (228 candidates), followed by French (138) and Spanish (123)), Physics, Chemistry, Biology 4 and Economics.

Options of written examinations	Number of candidates BAC 2015	Percentage of candidates BAC 2015	Number of candidates BAC 2016	Percentage of candidates BAC 2016
LANGUAGE III	593	32,96%	<b>636</b>	<b>33,74%</b>
BIOLOGY 4	512	28,46%	<b>469</b>	<b>24,88%</b>
PHYSICS	494	27,46%	<b>502</b>	<b>26,63%</b>
CHEMISTRY	453	25,18%	<b>471</b>	<b>24,99%</b>
ECONOMICS	283	16,00%	<b>338</b>	<b>17,93%</b>

The number of written examinations in Musical education is steadily growing throughout the years, doubling the number of candidates by 47,4% (19 in 2013 to 28 in 2016):

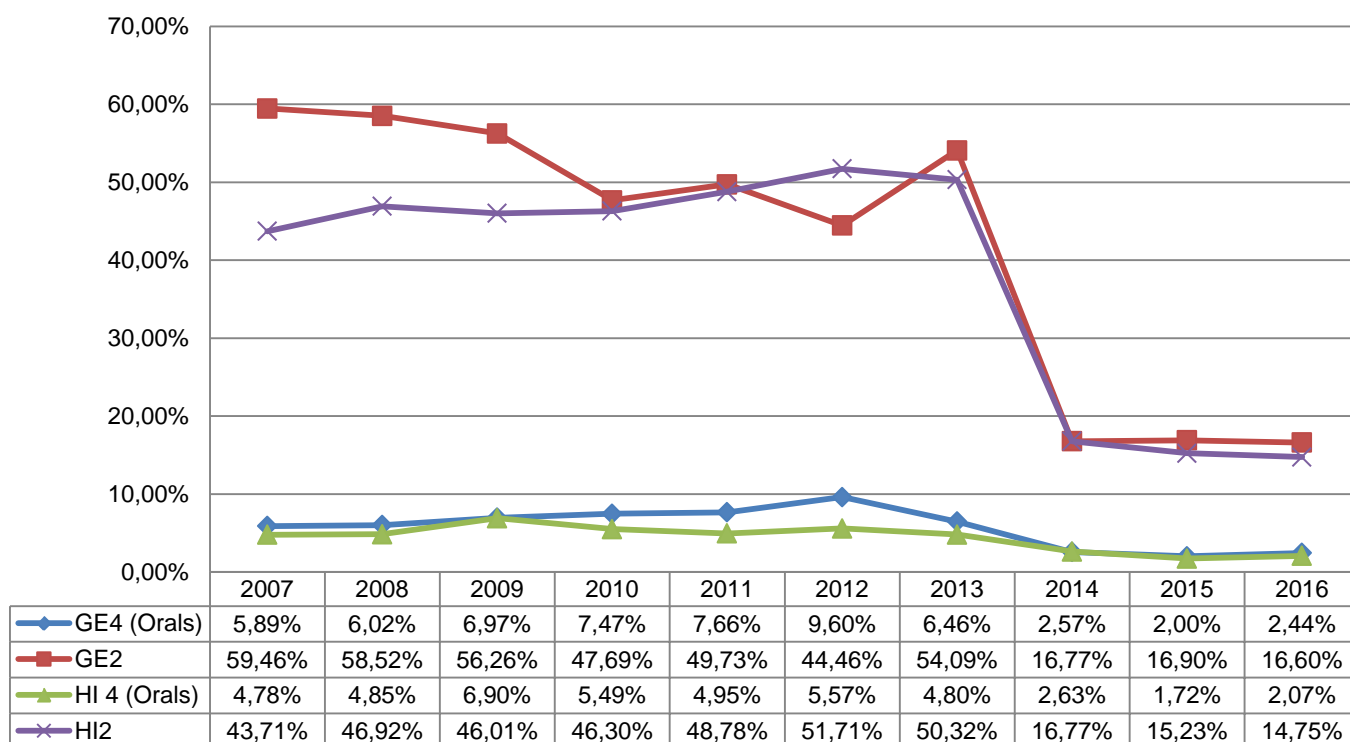
### MUSIC 4 HOUR OPTION



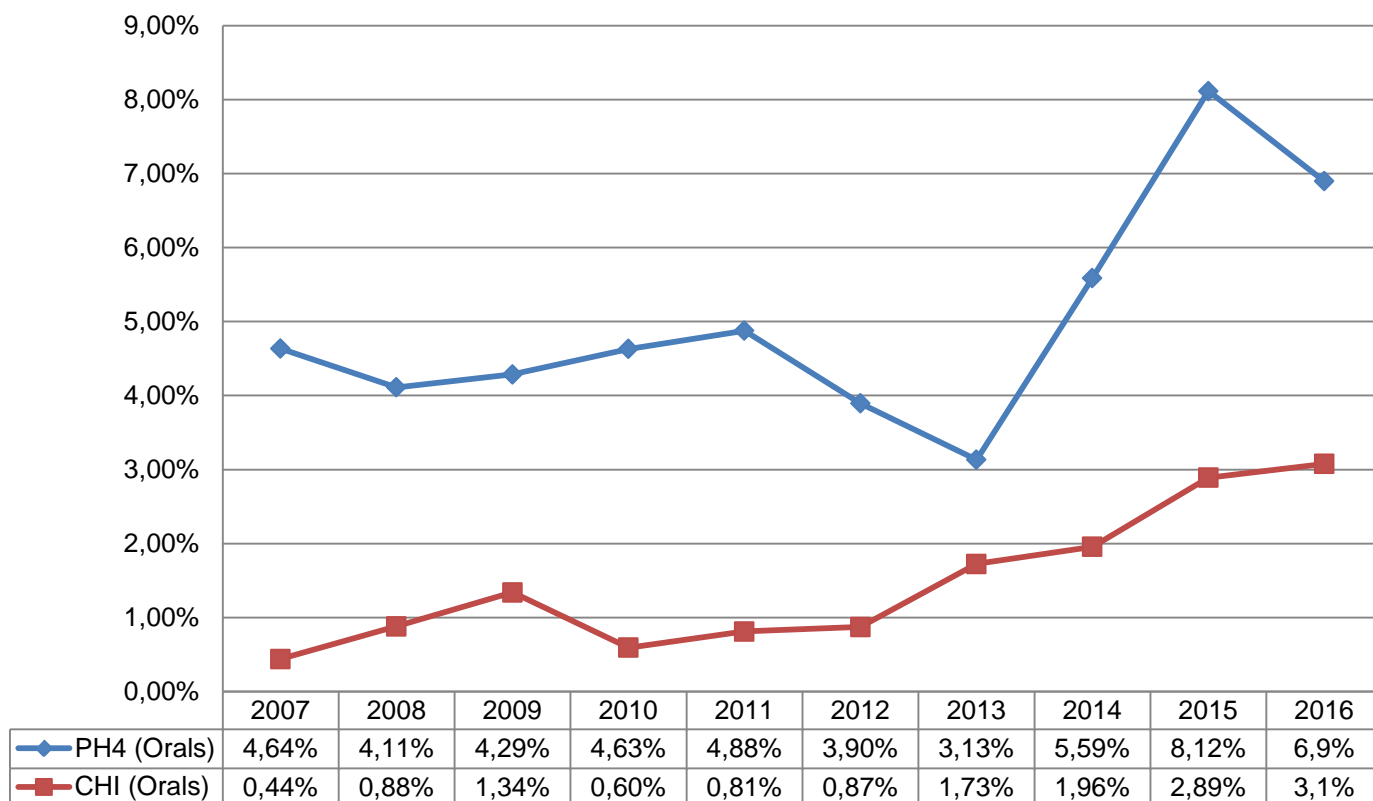
The five most widely chosen options for the oral examinations were: Language II (English (738), French (165) and German (140) being most popular choices), Philosophy 2, Biology 2, Geography 2 and History 2.

Options of oral examinations	Number of candidates BAC 2015	Percentage of candidates BAC 2015	Number of candidates BAC 2016	Percentage of candidates BAC 2016
LANGUAGE II	1026	57,03%	<b>1070</b>	<b>56,76%</b>
PHILOSOPHY 2	753	41,86%	<b>827</b>	<b>43,87%</b>
BIOLOGY 2	754	41,91%	<b>368</b>	<b>19,52%</b>
GEOGRAPHY 2	304	16,90%	<b>313</b>	<b>16,60%</b>
HISTORY 2	274	15,23%	<b>278</b>	<b>14,75%</b>

The European Baccalaureate reform's decision to decrease the number of the oral examinations from four to three in the year 2013-2014 has most heavily affected the orals in History and Geography, 2 and 4 hour options, number of candidates choosing these examinations falling more than 64% in HI2, 48% in HI4, 63% in GE2 and 54% in GE4.

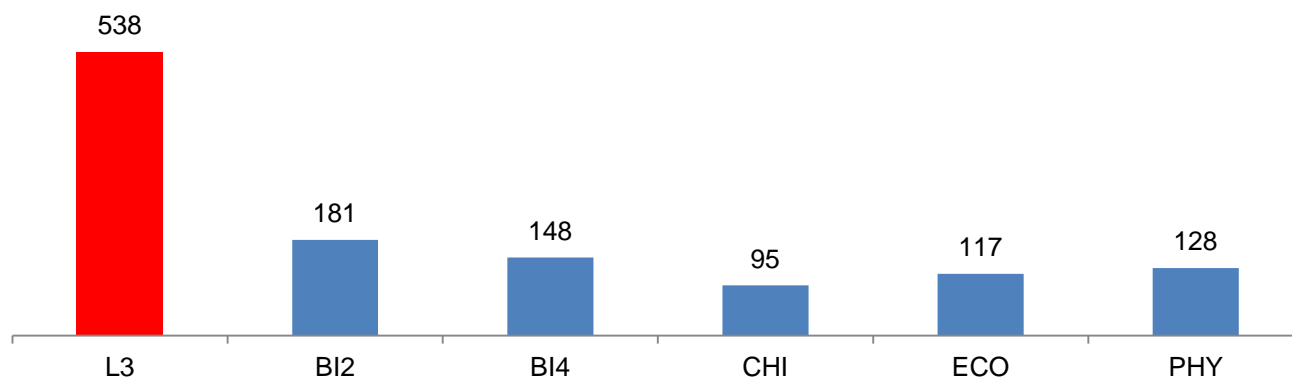


Candidates choosing Philosophy 4 almost tripled in number (49 candidates in 2013 to 130 in 2016) and Chemistry orals doubled this year comparing to year 2013 (from 27 to 58)



819 candidates took an examination in Language III, written or oral. Out of these 538 combined this examination with an examination in one or more scientific subjects. In this graph we can see a frequency of combination:

#### Language III candidates: choice of written and/or oral scientific examination

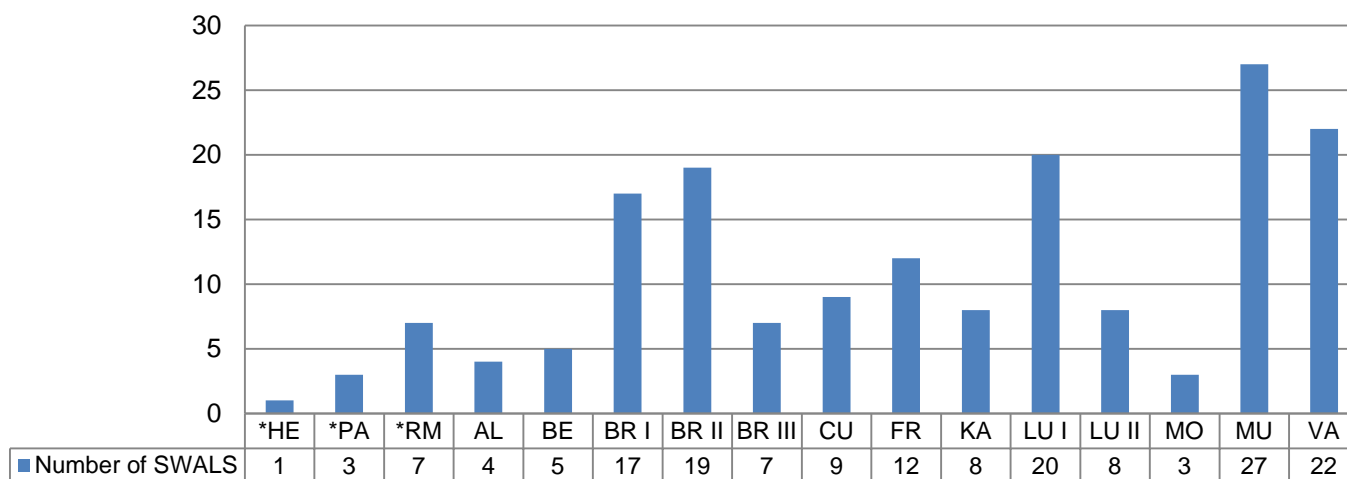


The graph shows that candidates with scientific orientation are also interested in mastering mother tongue and two foreign languages in line with European key competences for lifelong learning.

#### 2.10. Students Without A Language Section (SWALS)

This year, 172 Students Without A Language Section registered for the European Bacculaureate session.

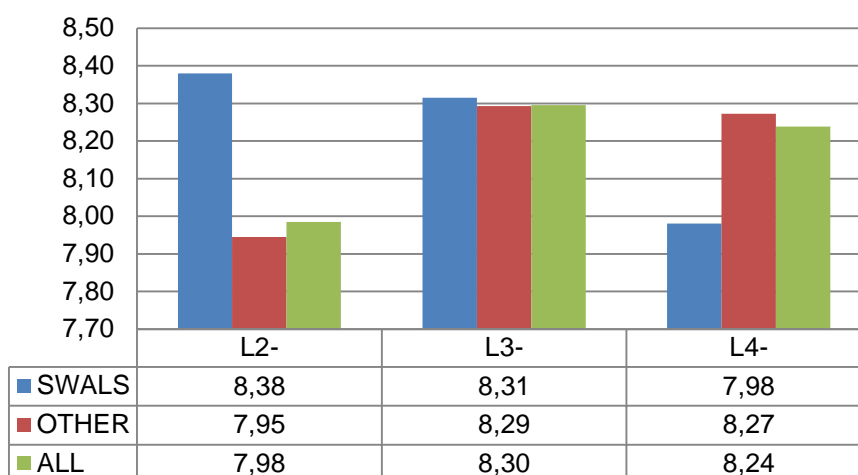
### Number of Students Without A Language Section (SWALS)



The average Final Mark achieved by SWALS candidates this year came up to 7,9. Three SWALS candidates failed (i.e. a fail rate of 1,7 %).

In the next graph we can see their performance in Languages II, III and IV. We can observe that their performance in Language II is higher than the average.

### Final Mark for L2, L3 and L4



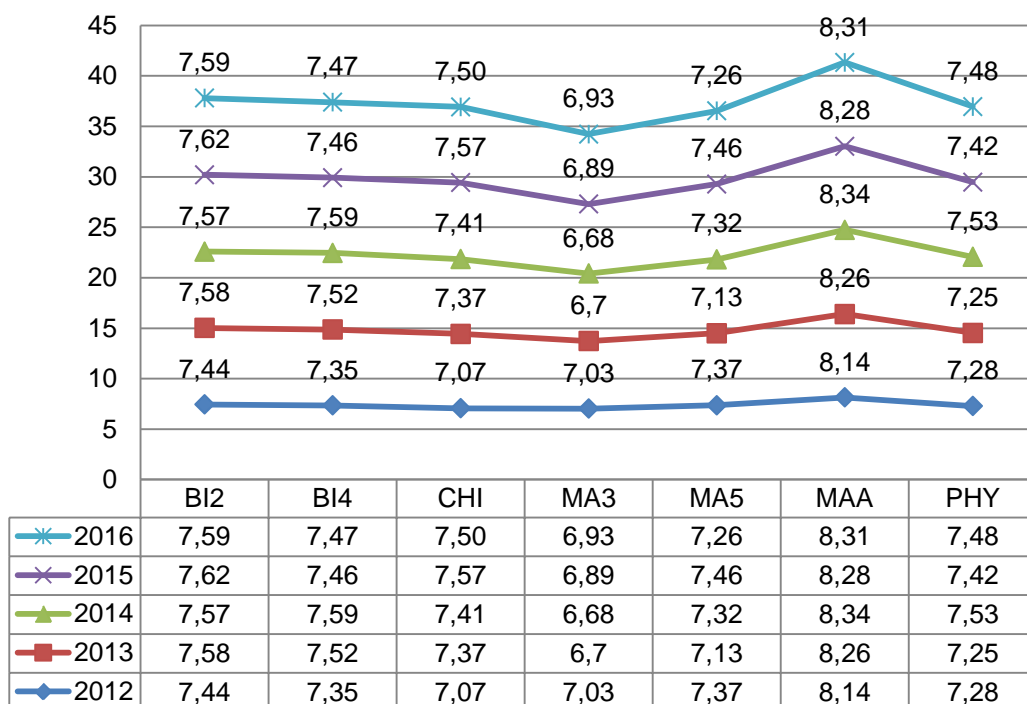
In the following table we can see the performance of SWALS pupils per subject compared to pupils in their language sections. As it can be observed there is no significant deviation of marks even for those subjects taught in Language II (in yellow) where one could expect that SWALS pupils would score higher.

Subject	bi4	chi	eco	ge4	hi4	ma3	ma5	maa	ph4	phy
SWALS	7,47	7,45	7,43	7,39	7,57	6,73	7,49	8,65	7,79	7,56
OTHER	7,47	7,50	7,48	7,57	7,64	6,93	7,26	8,31	8,12	7,48
ALL	7,47	7,50	7,48	7,55	7,63	6,91	7,27	8,34	8,09	7,49

### 2.11. Final Mark Average for Science Classes

The evolution of the average Final Mark for the science classes as set out in the graph shows substantial stability.

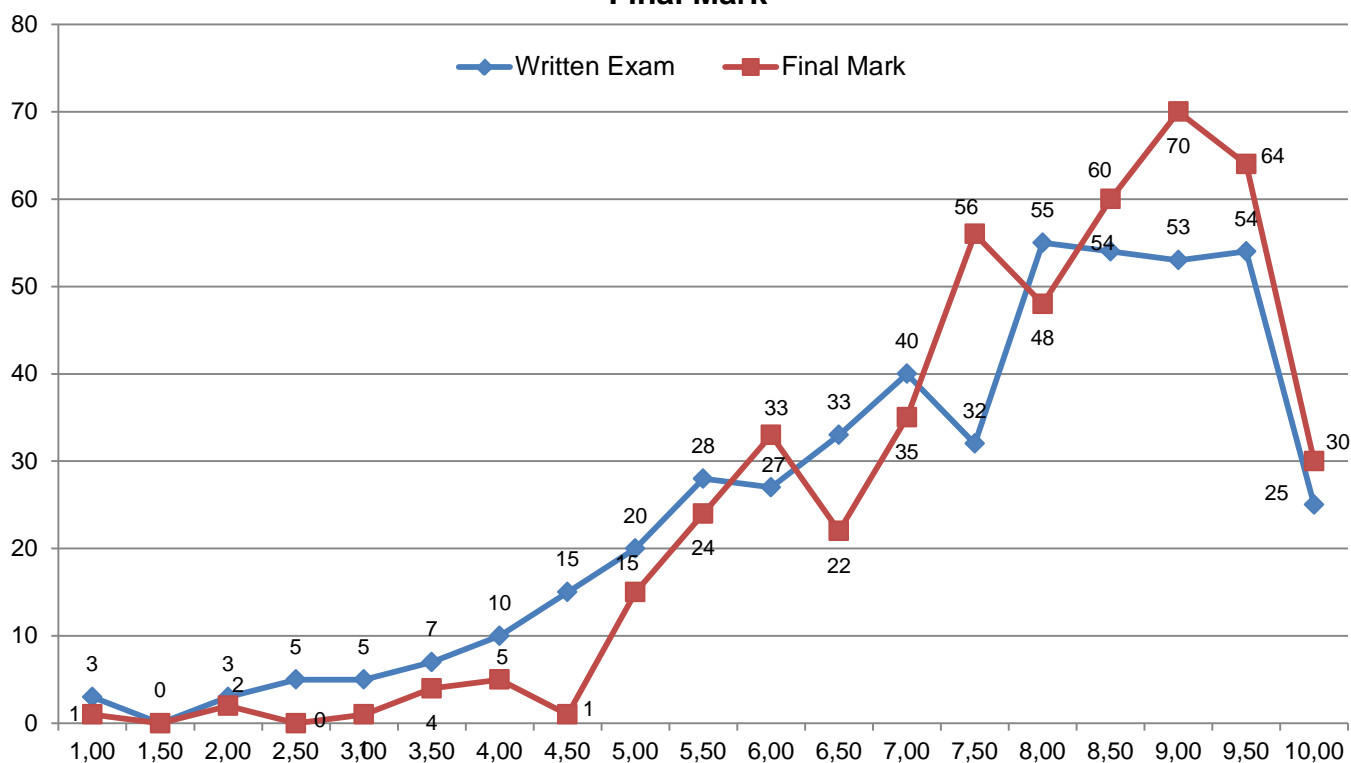
### Final Mark Average for Science Classes



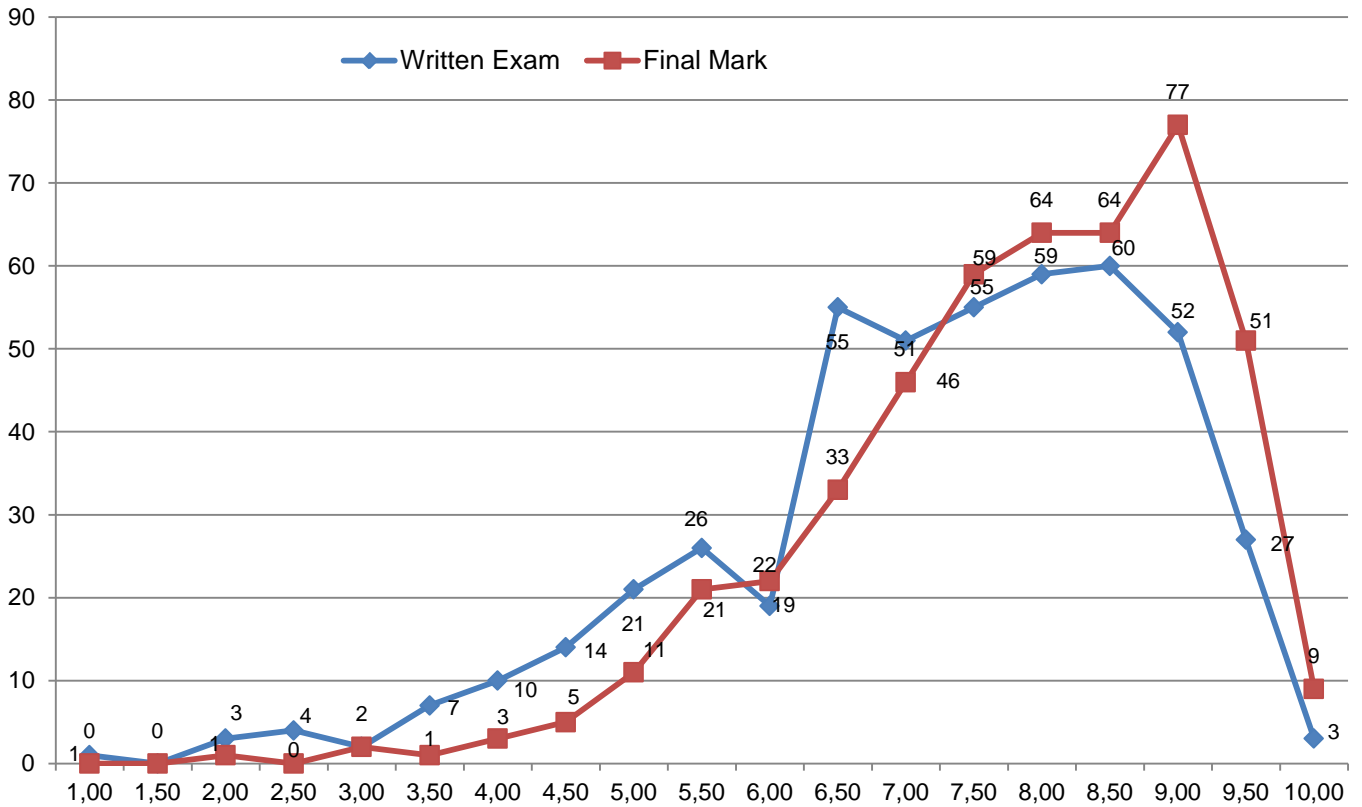
### 2.12. Analysis of the results of Scientific courses

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

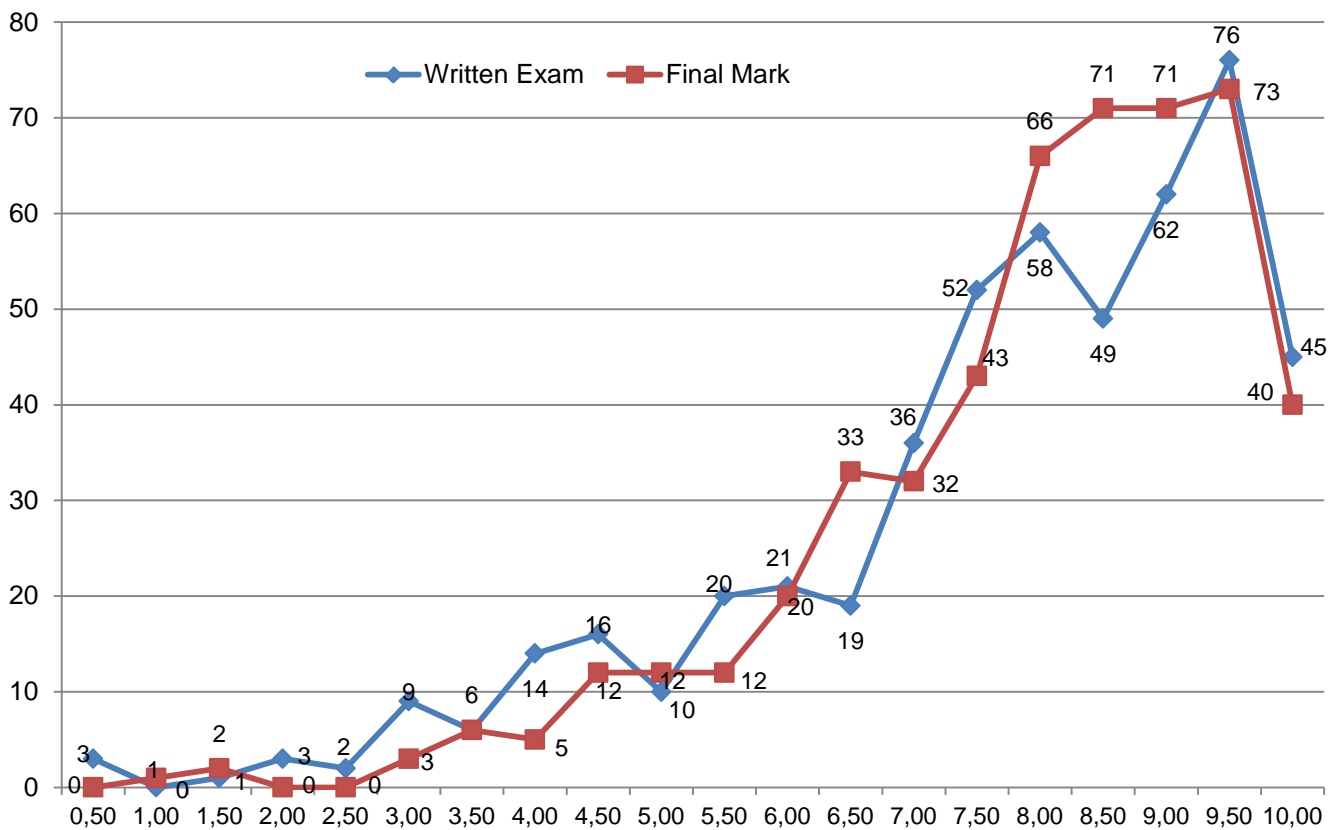
#### Comparison of Frequency of Marks between Chemistry Written Exam and Chemistry Final Mark



### Comparison of Frequency of Marks between Biology Written Exam and Biology Final Mark

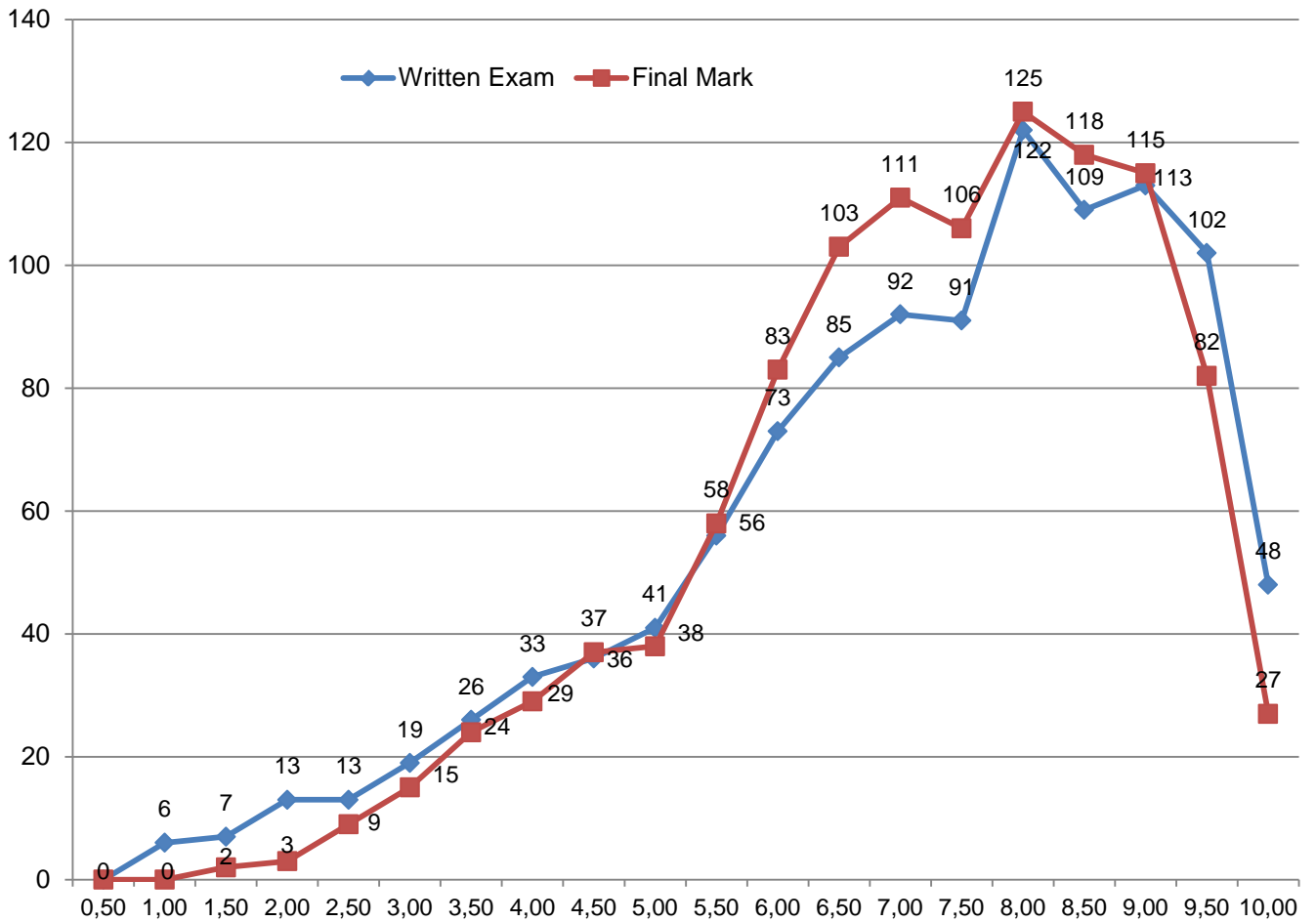


### Comparison of Frequency of Marks between Physics Written Exam and Physics Final Mark

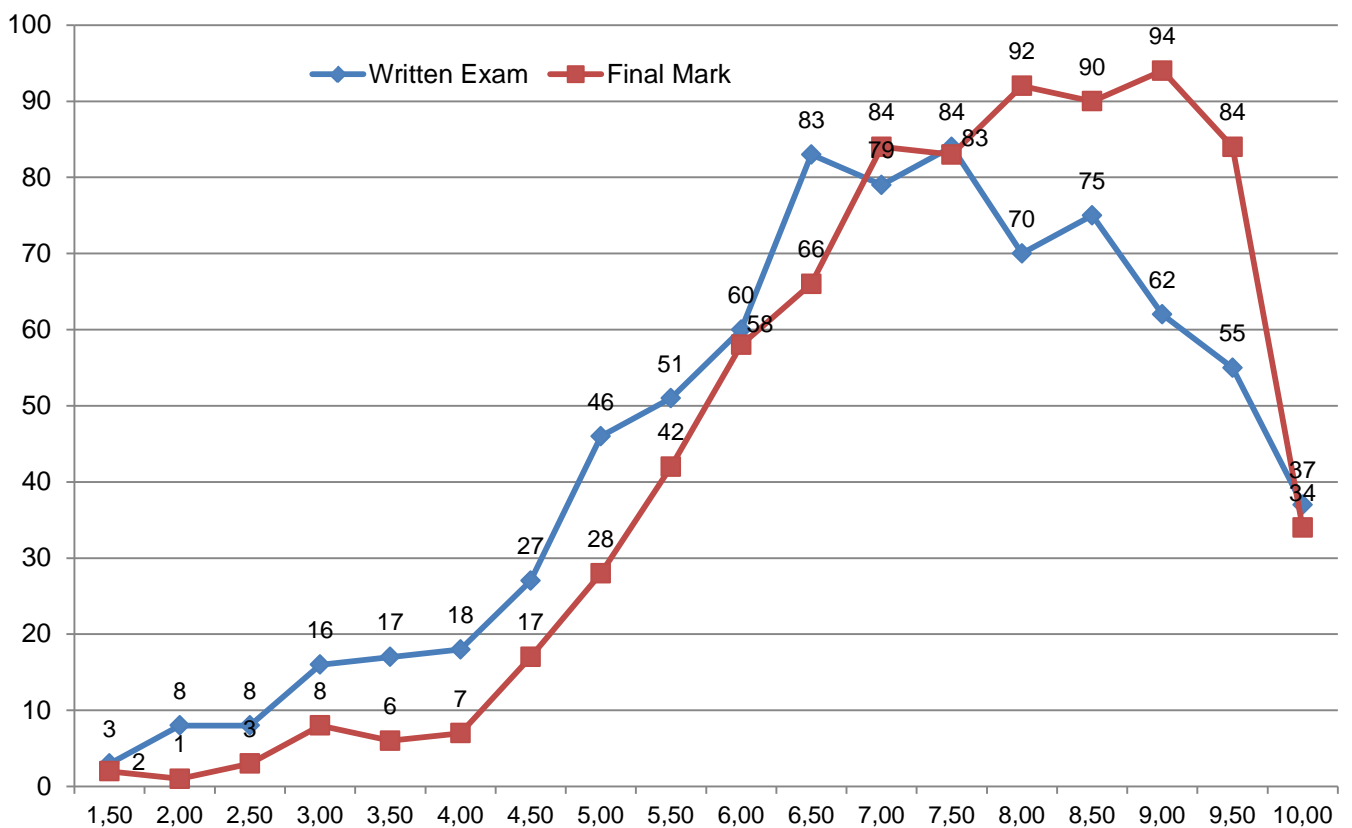




### Comparison of Frequency of Marks between Maths 3 Written Exam and Maths 3 Final Mark



### Comparison of Frequency of Marks between Math 5 Written Exam and Math 5 Final Mark

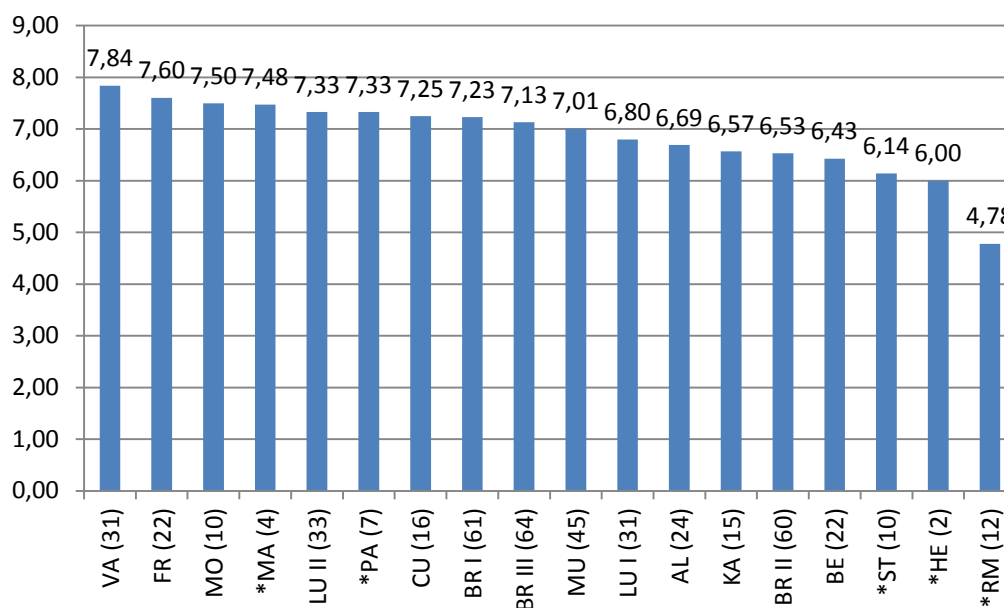


## 2.13. Final Mark Average for Science EB Written Examinations

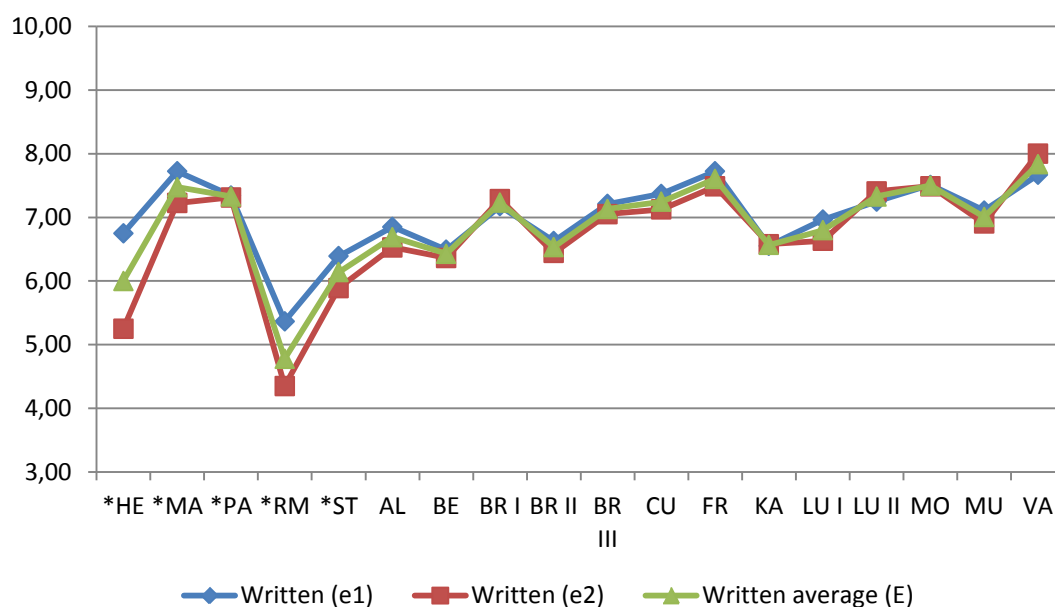
### 2.13.1 Biology (Success rate: 77,40%)

School year	*HE	*HK	*MA	*PA	*RM	*ST	AL	BE	BR I	BR II	BR III	CU	FR	KA	LU I	LU II	MO	MU	VA	Aver.
2011/2012				6,66			6,93	6,05	7,02	6,64	7,08	8,35	8,13	6,76	6,78		7,21	7,14	7,05	6,94
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
<b>2015/2016</b>	<b>6,00</b>		<b>7,48</b>	<b>7,33</b>	<b>4,78</b>	<b>6,14</b>	<b>6,69</b>	<b>6,43</b>	<b>7,23</b>	<b>6,53</b>	<b>7,13</b>	<b>7,25</b>	<b>7,60</b>	<b>6,57</b>	<b>6,80</b>	<b>7,33</b>	<b>7,50</b>	<b>7,01</b>	<b>7,84</b>	<b>6,97</b>

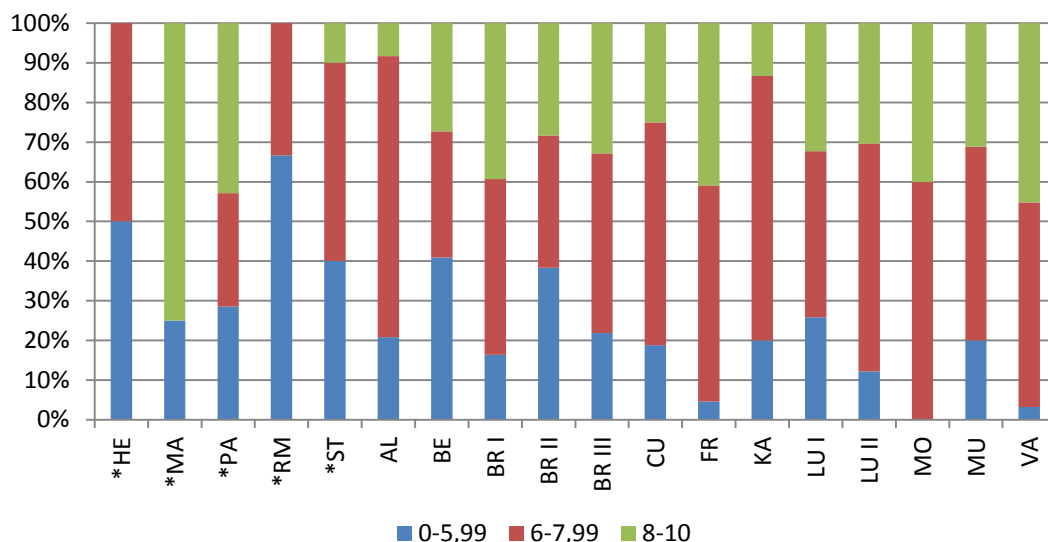
### Biology 2016 : Average per school (6,97)



### Biology - W1 W2 W average



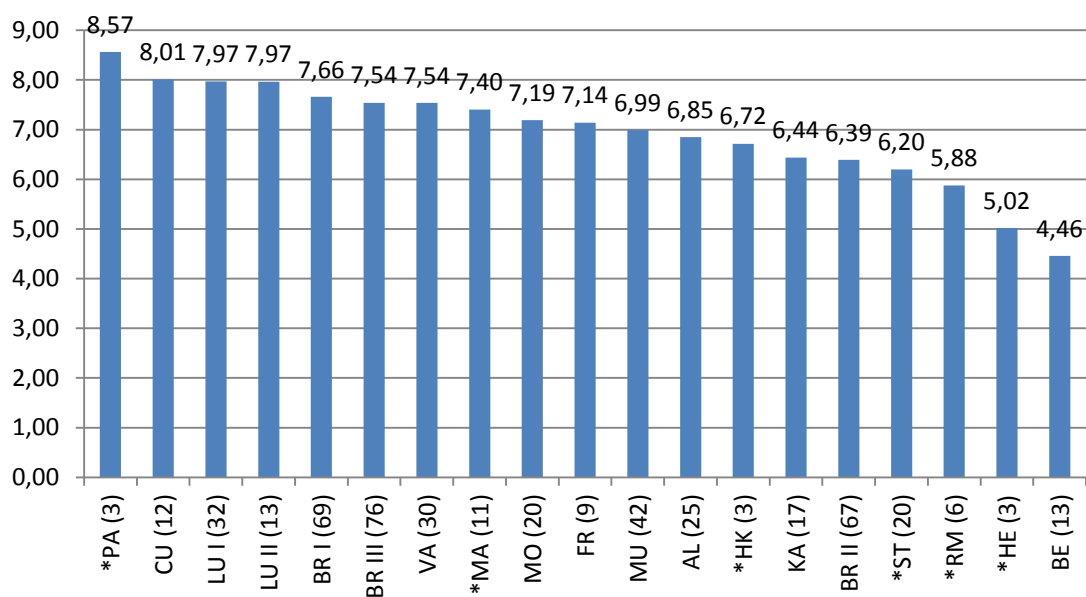
## Distribution Biology



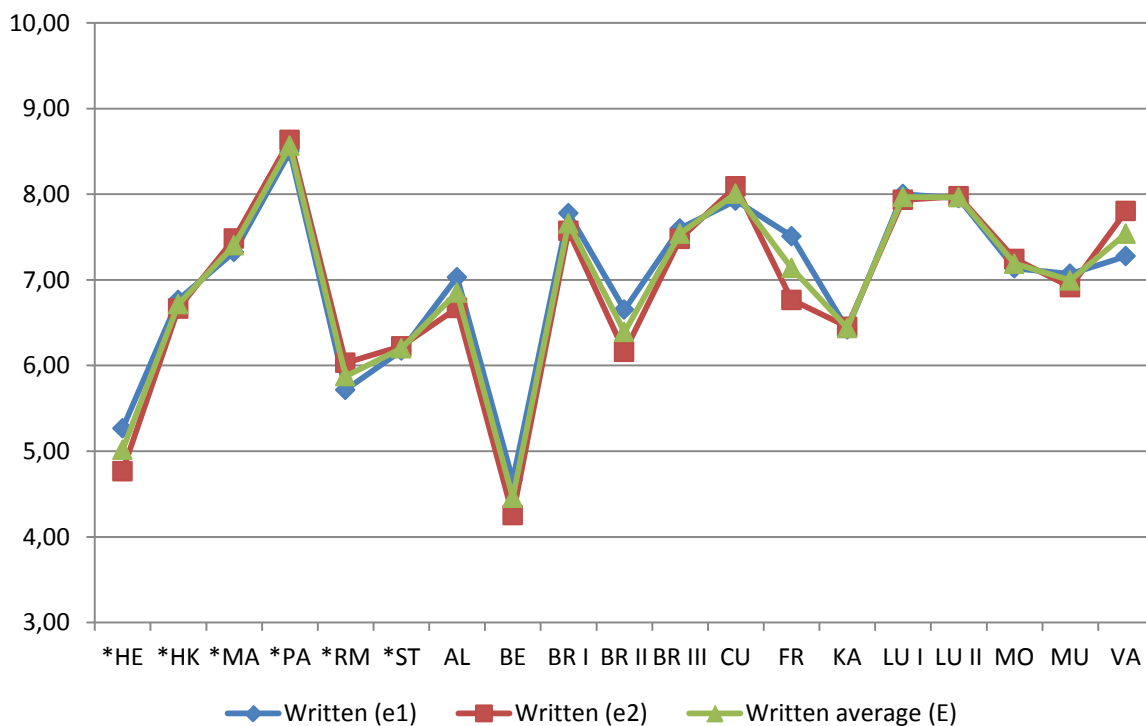
### 2.13.2 Chemistry (Success rate: 74,31%)

School year	*HE	*HK	*MA	*PA	*RM	*ST	AL	BE	BR I	BR II	BR III	CU	FR	KA	LU I	LU II	MO	MU	VA	Aver.
2011/2012			4,84			7,18	6,50	6,16	6,62	6,07	6,57	7,21	7,15	6,95	6,39		6,62	6,70		6,50
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
<b>2015/2016</b>	<b>5,02</b>	<b>6,72</b>	<b>7,40</b>	<b>8,57</b>	<b>5,88</b>	<b>6,20</b>	<b>6,85</b>	<b>4,46</b>	<b>7,66</b>	<b>6,39</b>	<b>7,54</b>	<b>8,01</b>	<b>7,14</b>	<b>6,44</b>	<b>7,97</b>	<b>7,97</b>	<b>7,19</b>	<b>6,99</b>	<b>7,54</b>	<b>7,12</b>

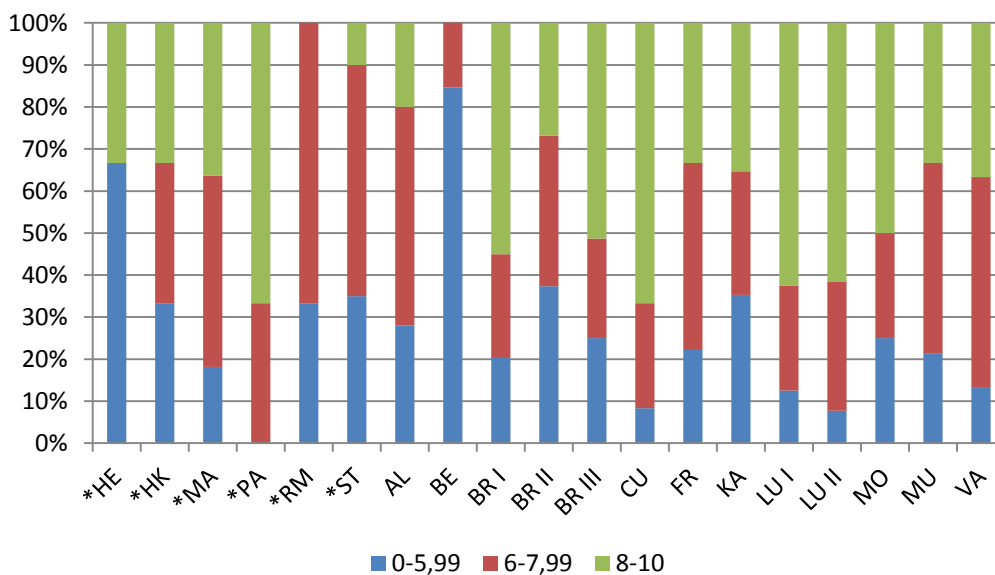
### Chemistry 2016 : Average per school (7,12)



### Chemistry W1 W2 W average



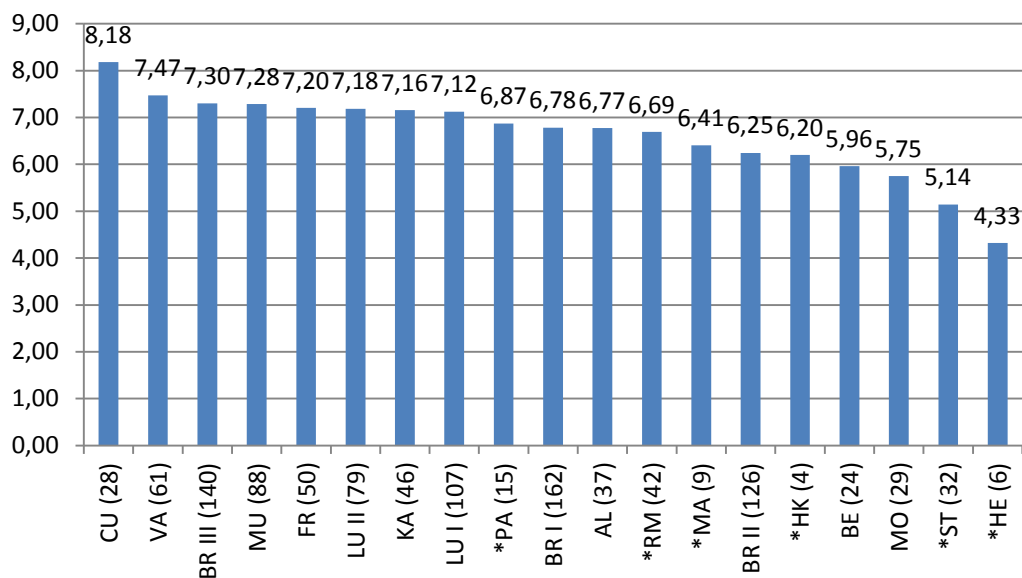
### Chemistry Distribution



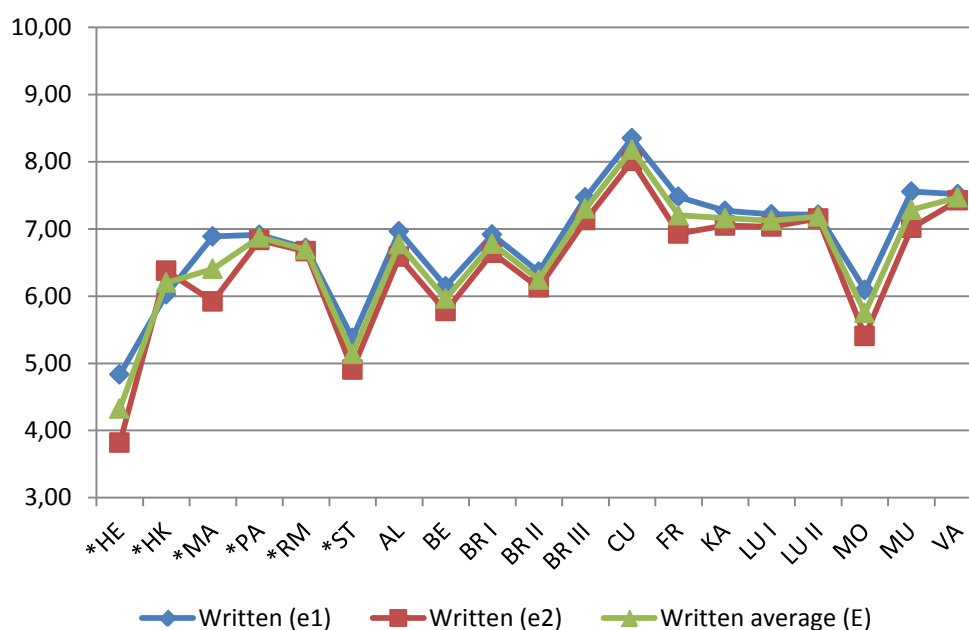
### 2.13.3 Mathematics 3P (Success rate: 71,43%)

School year	*HE	*HK	*MA	*PA	*RM	*ST	AL	BE	BR I	BR II	BR III	CU	FR	KA	LU I	LU II	MO	MU	VA	Aver.
2011/2012				6,27			7,04	6,20	7,48	6,43	6,99	7,94	7,86	7,96	7,01		6,29	7,51	7,62	7,13
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	6,52
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	6,35
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	6,75
<b>2015/2016</b>	<b>4,33</b>	<b>6,20</b>	<b>6,41</b>	<b>6,87</b>	<b>6,69</b>	<b>5,14</b>	<b>6,77</b>	<b>5,96</b>	<b>6,78</b>	<b>6,25</b>	<b>7,30</b>	<b>8,18</b>	<b>7,20</b>	<b>7,16</b>	<b>7,12</b>	<b>7,18</b>	<b>5,75</b>	<b>7,28</b>	<b>7,47</b>	<b>6,88</b>

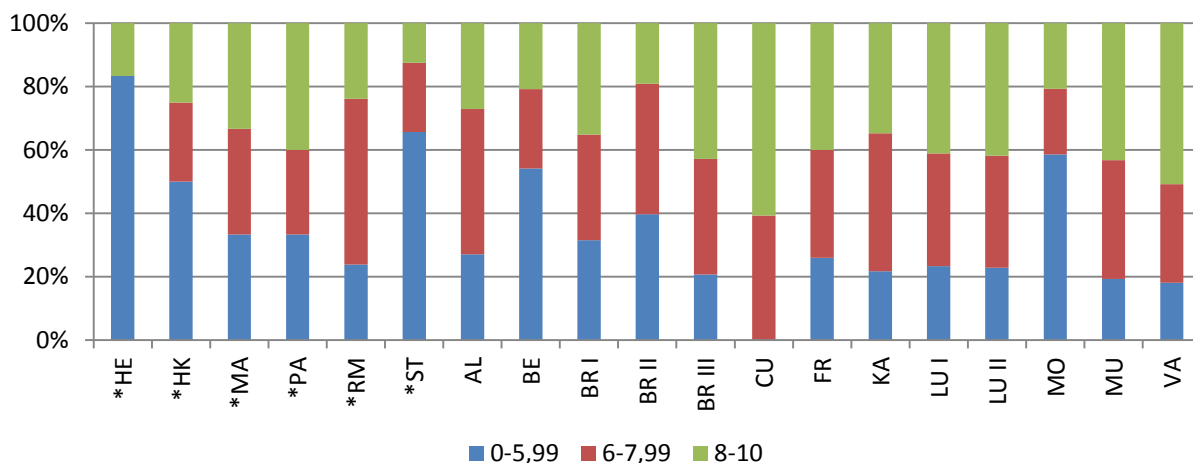
### Maths 3P 2016 : Average per school (6,88)



### Mathematics 3P - W1 W2 W average



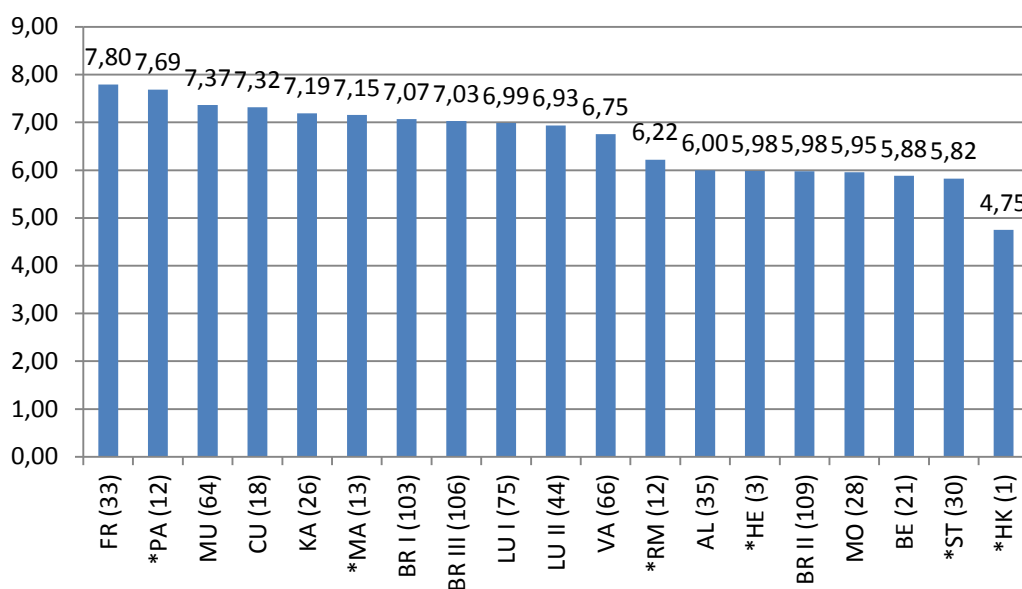
## Mathematics 3P Distribution



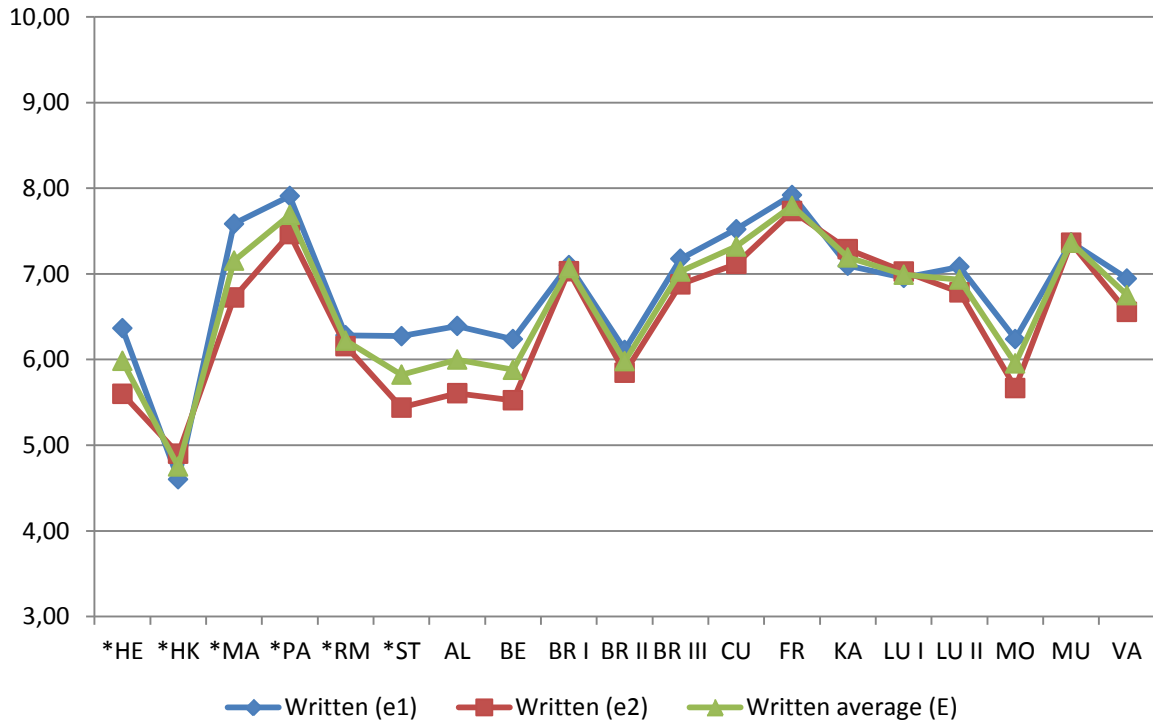
### 2.13.4 Mathematics 5P (Success rate: 68,71%)

School year	*HE	*HK	*MA	*PA	*RM	*ST	AL	BE	BR I	BR II	BR III	CU	FR	KA	LU I	LU II	MO	MU	VA	Aver.
2011/2012				6,21			7,69	6,35	7,39	6,50	7,15	8,67	8,14	8,28	7,54		6,69	9,07	7,56	7,38
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	6,99
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	6,93
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	7,22
<b>2015/2016</b>	<b>5,98</b>	<b>4,75</b>	<b>7,15</b>	<b>7,69</b>	<b>6,22</b>	<b>5,82</b>	<b>6,00</b>	<b>5,88</b>	<b>7,07</b>	<b>5,98</b>	<b>7,03</b>	<b>7,32</b>	<b>7,80</b>	<b>7,19</b>	<b>6,99</b>	<b>6,93</b>	<b>5,95</b>	<b>7,37</b>	<b>6,75</b>	<b>6,76</b>

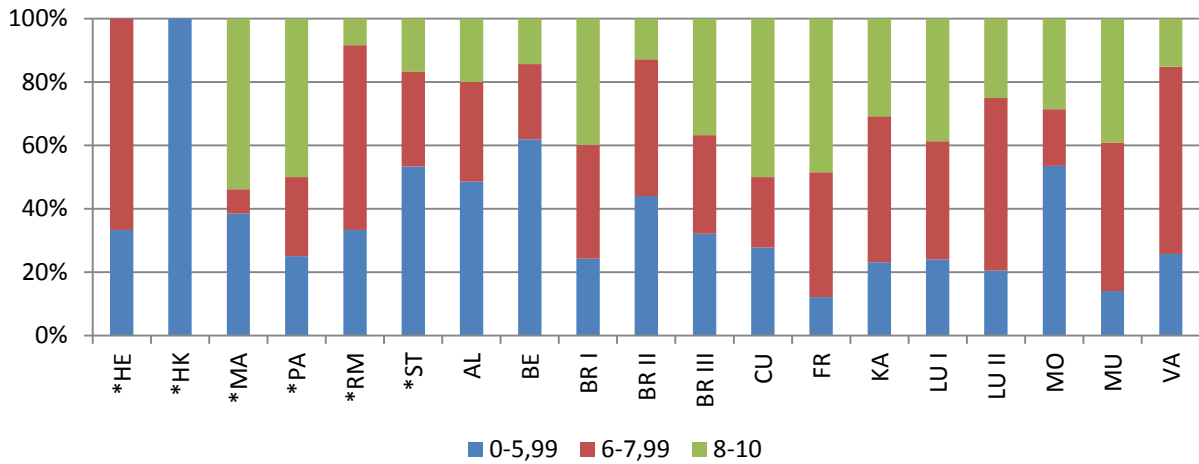
### Maths 5P 2016 : Average per school (6,76)



### Mathematics 5P - W1 W2 W average



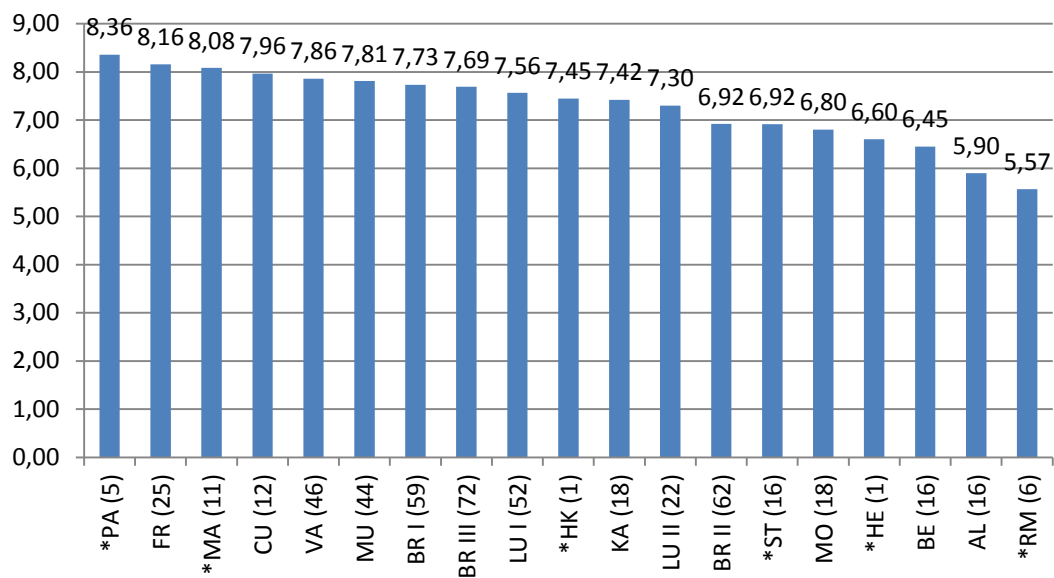
### Mathematics 5P Distribution



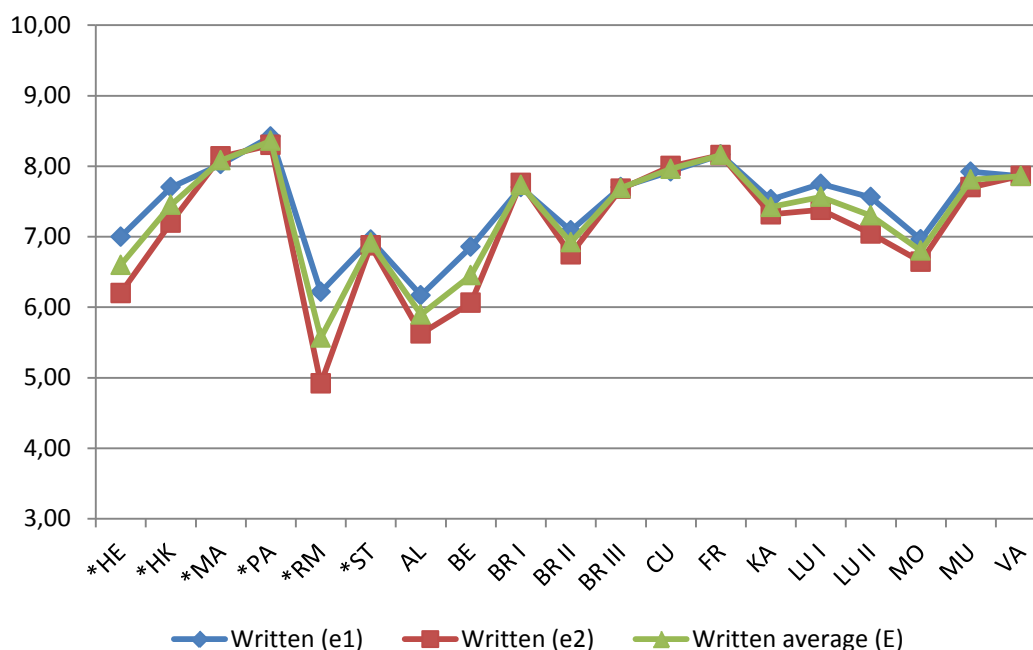
### 2.13.5 Physics (Success rate: 79,28%)

School year	*HE	*HK	*MA	*PA	*RM	*ST	AL	BE	BR I	BR II	BR III	CU	FR	KA	LU I	LU II	MO	MU	VA	Total
2011/2012				6,30			6,97	6,39	7,38	6,64	7,41	8,23	8,02	7,83	7,20		6,65	7,82	7,71	7,25
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	7,52
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	7,70
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	7,22
<b>2015/2016</b>	<b>6,60</b>	<b>7,45</b>	<b>8,08</b>	<b>8,36</b>	<b>5,57</b>	<b>6,92</b>	<b>5,90</b>	<b>6,45</b>	<b>7,73</b>	<b>6,92</b>	<b>7,69</b>	<b>7,96</b>	<b>8,16</b>	<b>7,42</b>	<b>7,56</b>	<b>7,30</b>	<b>6,80</b>	<b>7,81</b>	<b>7,86</b>	<b>7,45</b>

### PHYSICS 2016 : Average per school (7,45)

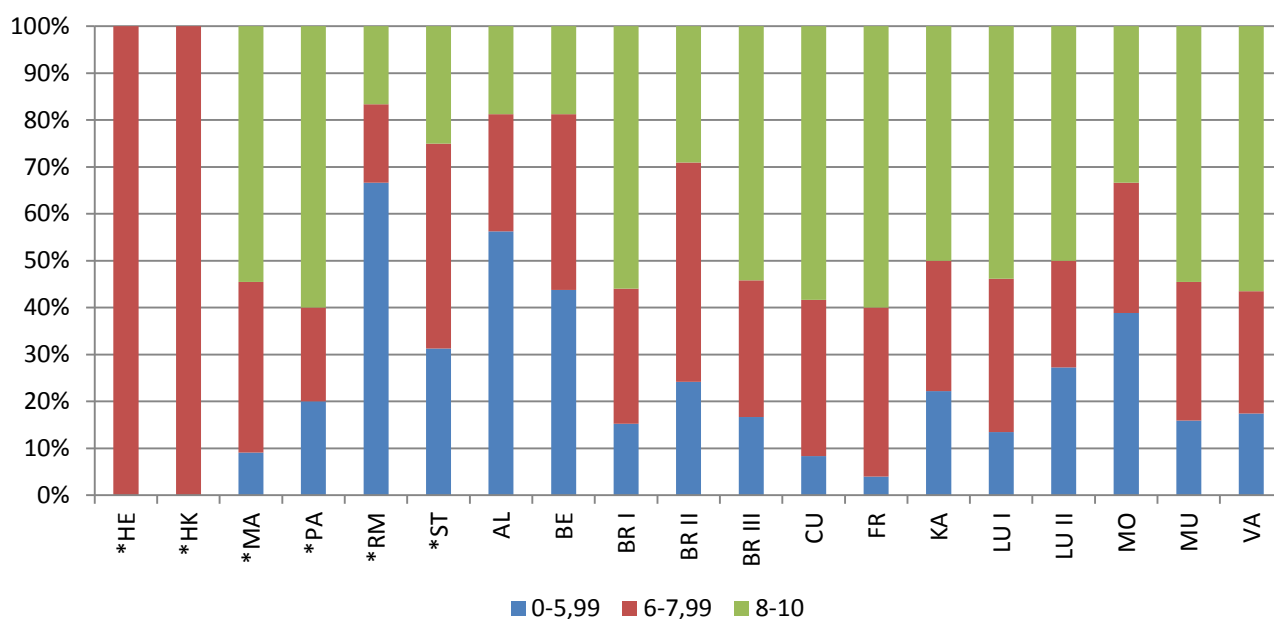


### Physics - W1 W2 W average





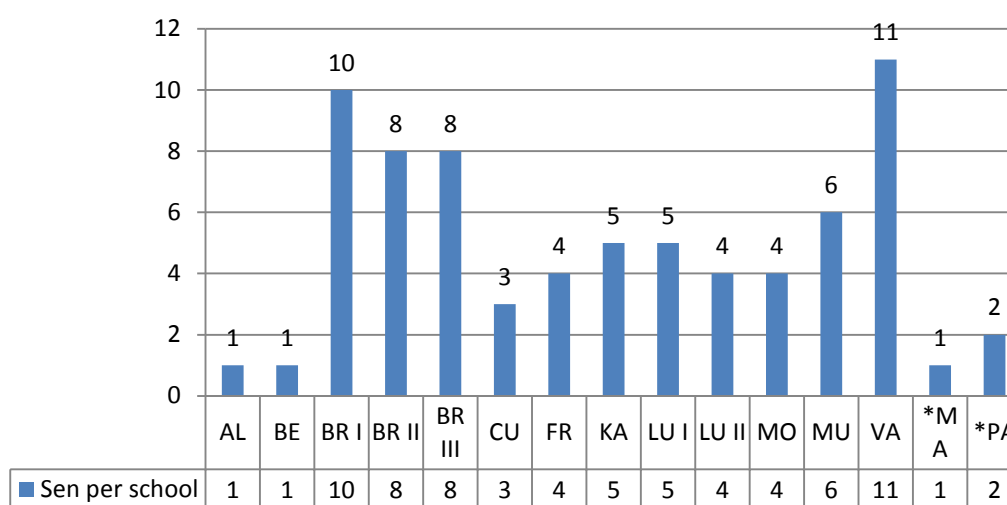
## Physics Distribution



### 2.14 Final Results for Pupils with Special Educational Needs

73 pupils were granted special measures to the written and/or oral examinations at the 2016 EB session. 9 among them were SWALS. In June 2016, 10 additional requests, linked to unexpected circumstances, were approved by the Board of Inspectors (Secondary): broken arm, vocal problems...

#### Number of SEN per school (73)



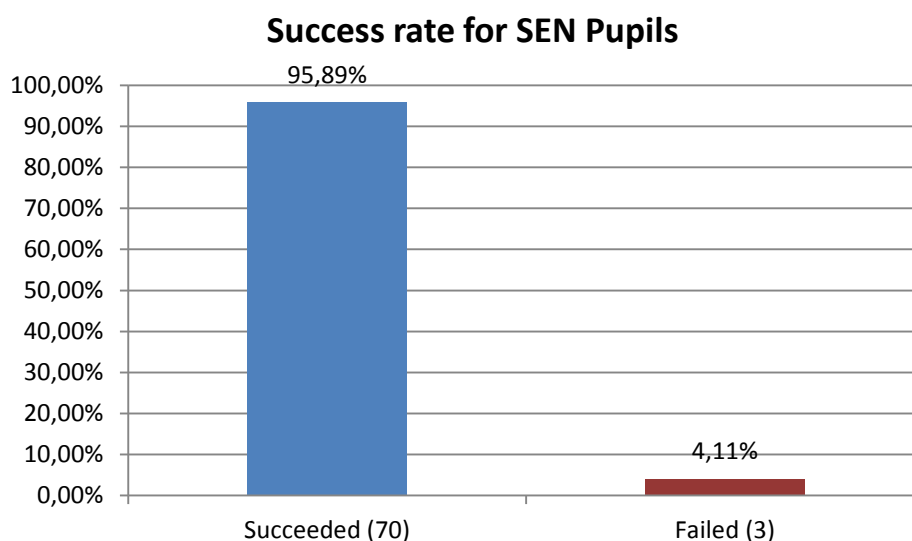
These measures mainly consisted in extra time, use of laptop (with or without spell check), use of calculator. Other more exceptional measures consisted in allowing a reader, a scribe, a separate room, having a break under surveillance, change of format of the examination subject paper,...

## 2.14.1 Choices of examinations

Subjects	Number of pupils who took the written exam	Average of Written examination marks (W)	Number of pupils who took the oral exam	Average of Oral examination marks (O)
AR4	15	79,13%		
BI2			17	63,53%
BI4	17	58,71%	4	83,13%
CHI	11	61,50%	1	95,00%
ECO	20	61,30%		
GE2			9	77,22%
GE4	19	59,61%	5	74,50%
HI2			11	74,55%
HI4	11	71,18%	2	80,00%
L1-	72	68,43%	72	77,57%
L1A	1	79,00%	1	87,50%
L2-	69	73,25%	42	84,46%
L2A	4	78,38%	4	74,38%
L3-	18	79,64%	9	85,83%
L4-	10	74,50%		
MA3	60	65,36%		
MA5	13	48,96%		
MAA			1	40,00%
MU4	4	71,00%		
ONL			1	85,00%
PH2			30	75,58%
PH4	11	73,55%	10	69,75%
PHY	10	61,40%		
<b>Grand Total</b>	<b>365</b>	<b>68,00%</b>	<b>219</b>	<b>77,33%</b>

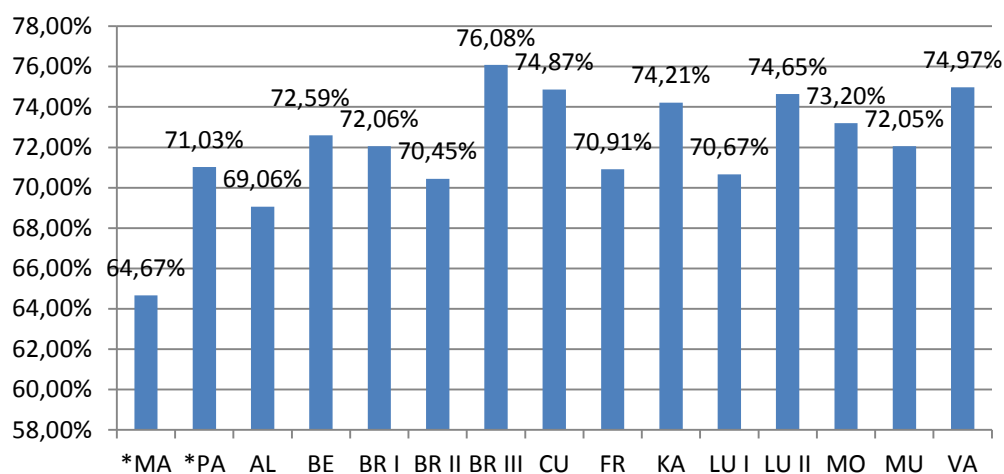
## 2.14.2 Success Rate

70 pupils out of 73 succeeded, all SWALS pupils included.

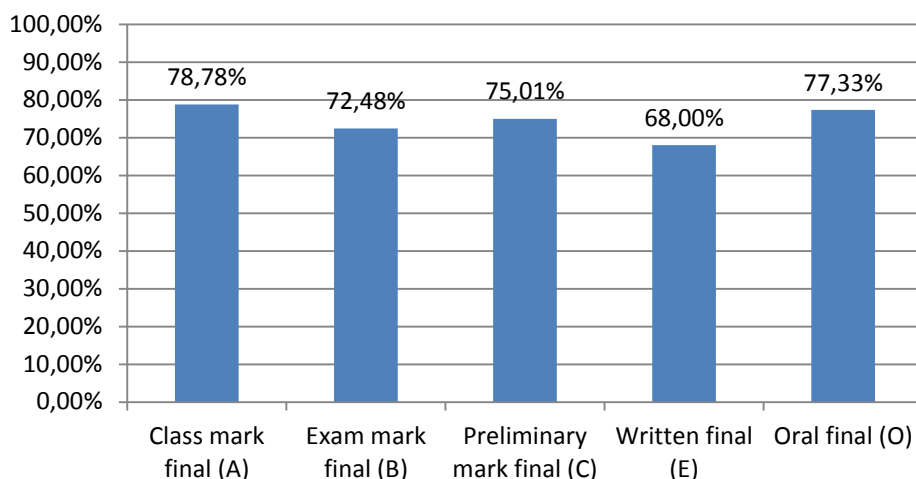


### 2.14.3 Overall final mark

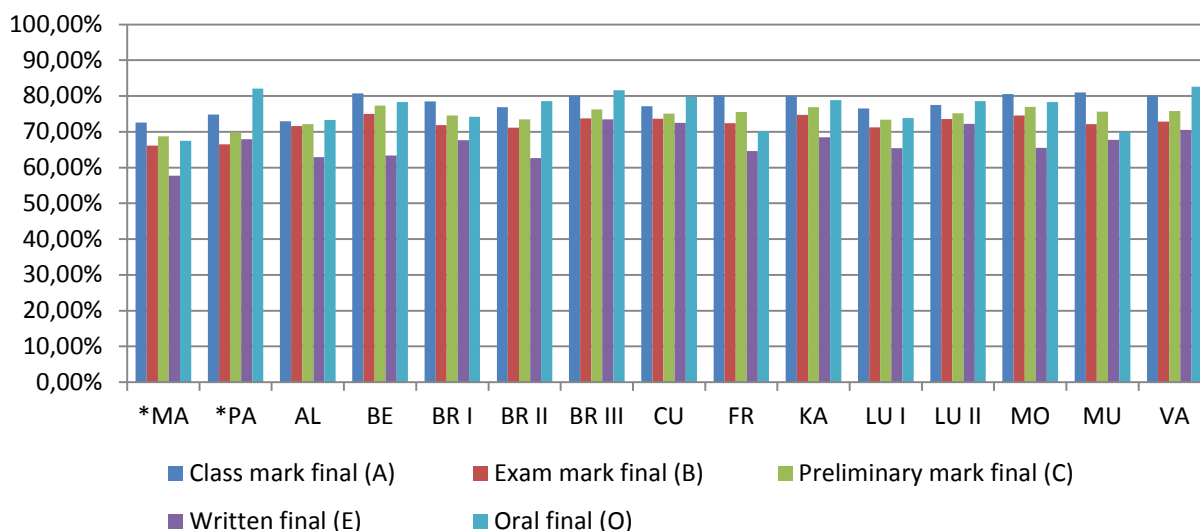
#### Final grade of Sen pupils - Average per school

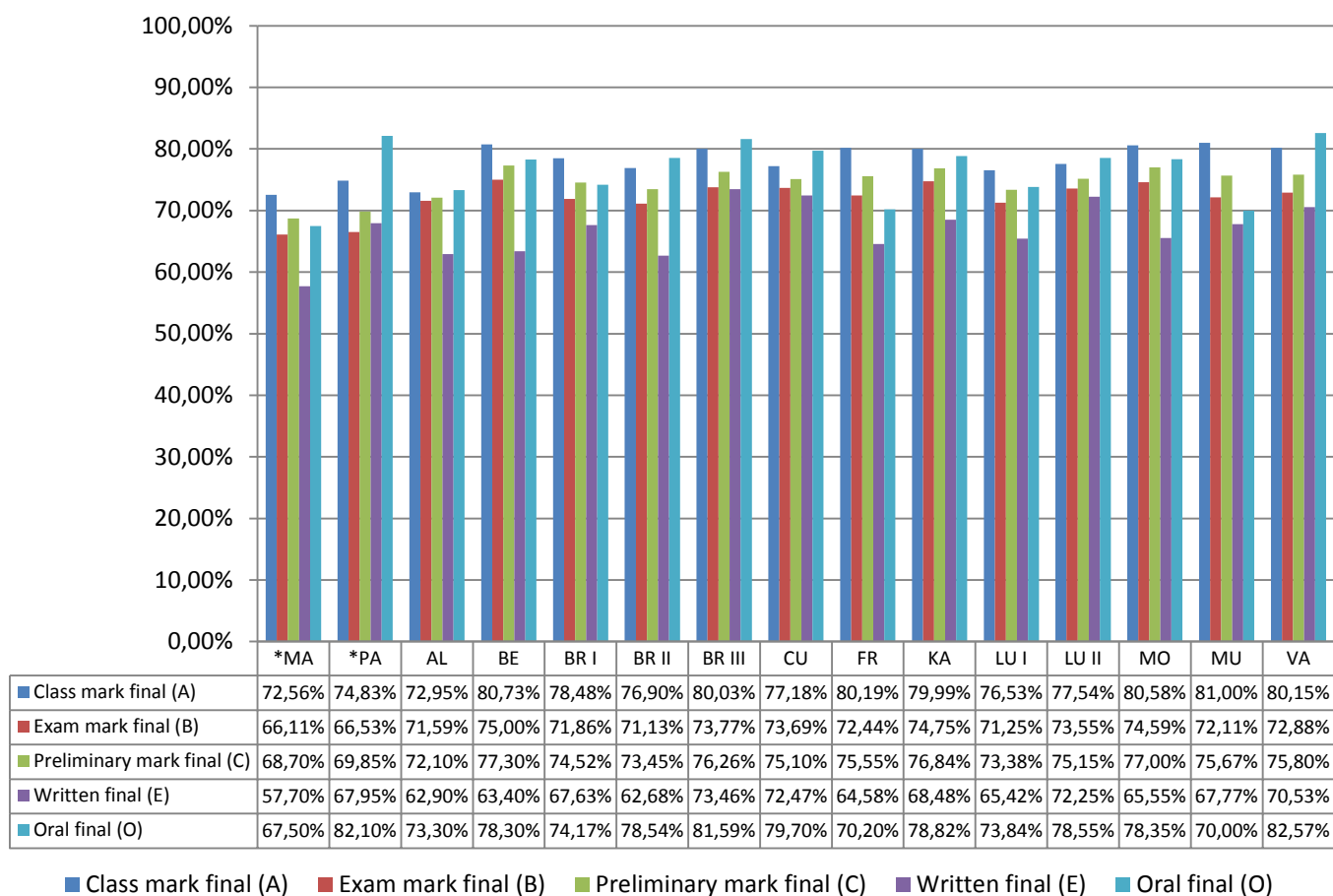


#### SEN Pupils : General Averages



### 2.14.4 Distribution of marks





### 2.14.5 Results per gender and averages

Out of the 73 SEN pupils, 40 were boys and 33 were girls.

All the girls succeeded, whereas 3 boys failed.

#### Final Mark Average per gender

