

The process of assessment of written works on the new format of university entrance exams in the Republic of Azerbaijan

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2019 | Baku

Introduction

- **2006** General education concept (National Curriculum) in the Azerbaijan Republic approved by Cabinet of Ministers of the Azerbaijan
- **2007** New subject curricula for grades I-IV was developed and approved
- The primary school students enrolled in 1st grade started their education with new subject curricula

Graduation from 11th grade - **2019**

2012 The State Students Admission Commission (now **The State Examination Center**) started to administrate the school leaving examination of students graduating from the general secondary education (9 years) and **the complete secondary education (11 years**).

University entrance exams

1st PHASE

Subjects	Questions	Maximum score
Instructional language	5 open ended + 5 multiple choice questions on each of 2 reading passages, 10 multiple choice questions (Grammar) 30 questions in total	100
Mathematics	13 multiple choice questions5 open ended (fill in) questions7 open ended questions25 questions in total	100
Foreign language	3 open ended + 3 multiple choice questions on listening passage, 4 open ended + 4 multiple choice questions on listening passage, 16 multiple choice questions (Grammar) 30 questions in total	100

2nd PHASE

Group 1	Group 2	Group 3	Group 4	Questions	Maximum score
Mathematics	Mathematics	Native language	Biology	22 multiple choice questions	150
Physics	Geography	History	Chemistry	5 open ended (fill in) questions 3 open ended questions on given	150
Chemistry	History	Literature	Physics	situation (text) 30 questions in total	100

Students

1st PHASE

Sector	Instructional language	Mathematics	Foreign language
Azerbaijanian	92254	92254	92191
Russian	7165	7165	7145
English		160	160
Georgian	81	81	81
French		1	1
Total	99500	99661	99578

2nd PHASE

Sector	Group 1	Group 2	Group 3	Group 4
		SPRING Session		
Azerbaijanian	24950	12645	19941	4399
Russian	2276	1386	1451	549
		SUMMER Session		
Azerbaijanian	18238	10107	16416	3702
Russian	1640	1027	1149	448

The stages of the assessment process

- > Scanning and encoding the answer sheets.
- > Splitting the scanned answer sheets into parts according to the test items.



Item by item

- > Selection of sample written works and entering the etalon marks for the process of calibration of assessors (markers).
- > Refinement of marking criteria.
- > The process of calibration of assessors before the assessment.
- > Assessment.
- ➤ Investigation of special occasions.



► Announcement of results



➤ Appeal process.

Scanning and Encoding the answer sheets; Splitting the scanned answer sheets into parts according to the test items.

New code

DÖVLƏT İMTAHAN MƏRKƏZİ TAM ORTA TƏHSİL SƏVİYYƏSİ ÜZRƏ BURAXILIŞ İMTAHANININ CAVAB VƏRƏQLƏRİ

1

Information about student given here is deleted by the program

2Bəyannamə

Öz imzamla birinci bənddə iş nömrəsi, soyadı, adı, atasının adı göstərilən şəxs olduğumu təsdiq edirəm. Əks təqdirdə, qanunla müəyyən edilmiş məsuliyyət daşıyacağam.

İmtahan zamanı cavabları köçürməyəcəyimə və başqalarının məndən köçürməsinə şərait yaratmayacağıma, aşağıda göstərilənlərə əməl edəcəyimə söz verirəm.

Soyadı, adı, atasının adı:

İmza

\$AGİRDİN NƏZƏRİNƏ!

- Bu "Cavab vərəqləri" 2 hissədən ibarətdir:
 - I hissə qapalı tipli tapşırıqlar və cavabının kodlaşdırılması tələb olunan açıq tipli tapşırıqlar üçün;
 - II hissə ətraflı şəkildə yazılı cavablandırılması tələb olunan tapşırıqlar üçün.
- Birinci hissə ingilis dili fənnindən 1-3 və 7-26, Azərbaycan dili fənnindən 31-45 və 51-55, riyaziyyat fənnindən 61-78 nömrəli tapşırıqların cavablandırılması üçün nəzərdə tutulmuşdur.
- İkinci hissə ingilis dili fənnindən 4-6 və 27-30, Azərbaycan dili fənnindən 46-50 və 56-60, riyaziyyat fənnindən 79-85 nömrəli tapsırıqların cavablandırılması ücün nəzərdə tutulmuşdur.
- Hər bir tapşırığa verdiyiniz ətraflı cavabı həmin tapşırığın cavablandırılması üçün ayrılmış hissəyə çərçivədən kənara çıxmadan səliqəli və oxunaqlı xətlə yazın.
- Riyaziyyat fənni üzrə hər bir tapşırığı cavablandırarkən onun həllinin bütün mərhələlərini (izah etməklə və istifadə edilən xassələri, teoremləri, aksiomları göstərməklə) qeyd etmək lazımdır. Nəzərə alın ki, həlli yazılmayan tapşırıqlar doğru cavab yazıldığı halda da "0" (sıfır) balla qivmətləndiriləcək.
- "Cavab vərəqləri"nizi doldurarkən tünd-göy və ya qara rəngli diyircəkli qələmdən istifadə edin.
- "Cavab vərəqləri"nizi qatlamayın və əzməyin. Orada heç bir lazımsız qeyd etməyin.
- İmtahan başa çatdıqdan sonra "Sual kitabçası"nı, "Cavab vərəqləri"ni mütləq zal nəzarətçisinə təhvil verin və "İmtahana buraxılış vərəqəsi"ndə nəzarətçinin imza etməsini tələb edin.

④ Zal nəzarətçisinin diqqətinə!	-	0
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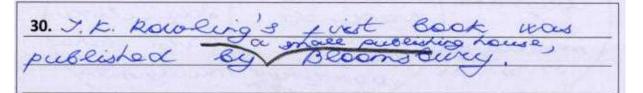
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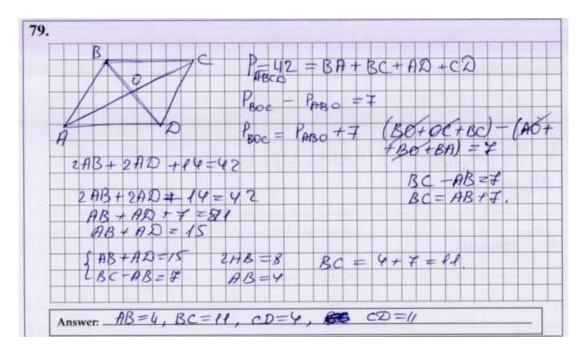
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Mű potlisin özünű looga aparman	Nazim Hikmətin müfəttişə dərs verməsi

Splitting the scanned answer sheets into parts according to the test items.



28. Viele Touristen kommen nach Frankfurt, weil es viele interessante Scheus würdigkeiten gibt. Und das ist die Heimat von berühmter Dichter.





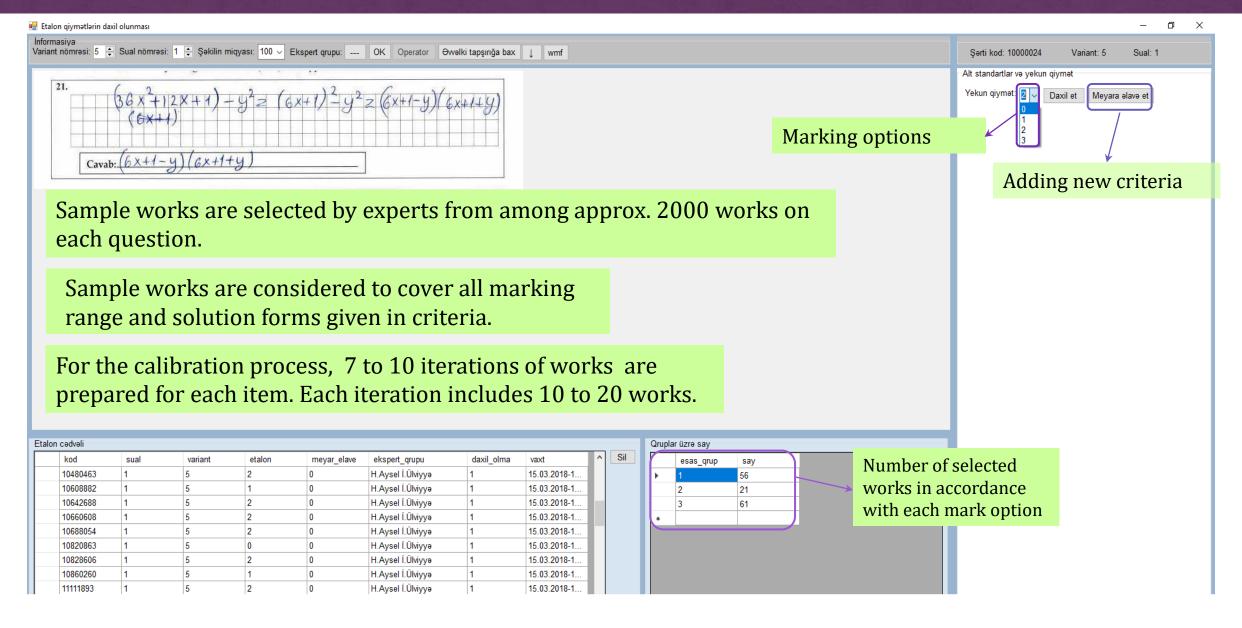
في تلك البوم أفتتح معرض مناعة الغفط و الغارومعرض النب و الرسوم في مدينة باكو

Splitting the scanned answer sheets into parts according to the test items.

Səbəb	Nəticə	Этемронные книги, с предпочинаю чинама буможение.
Nazim Hikmətin haqsızlıqla barışmaması	insanlarun haqlarunin midajissi uğrunda miibat tirs aparması	un morriso oraco reportante la come respersante de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la come de la c
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Cavab: 280

Selection of sample written works and entering the etalon marks for the process of calibration of assessors (markers).

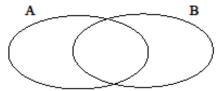


Refinement of marking criteria.

Question

Marking

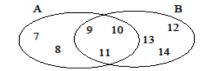
If \boldsymbol{A} is the set of all natural solutions of inequality 6 < n < 12, and if \boldsymbol{B} is the set of all natural solutions of inequality 8 < n < 15, write the elements of Euler-Venn diagram.



Criteria

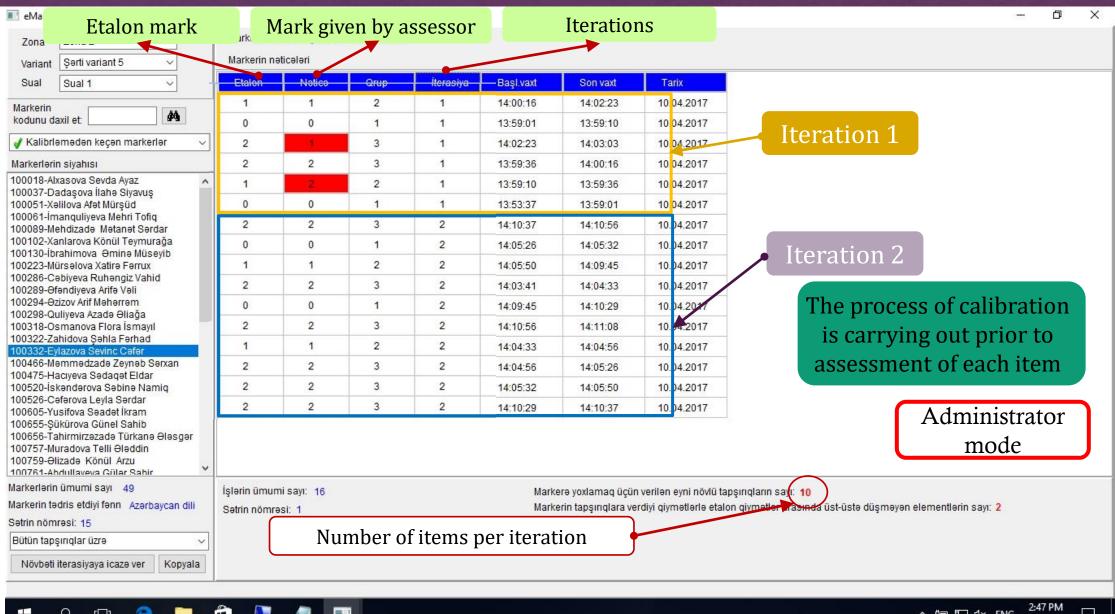
Solution:

Natural solutions of inequality 6 < n < 12 are 7, 8, 9, 10, 11. Natural solutions of inequality 8 < n < 15 are 9, 10, 11, 12, 13 and 14. Thus, $A = \{7, 8, 9, 10, 11\}$, $B = \{9, 10, 11, 12, 13, 14\}$. Euler-Venn diagram of these sets is as following:



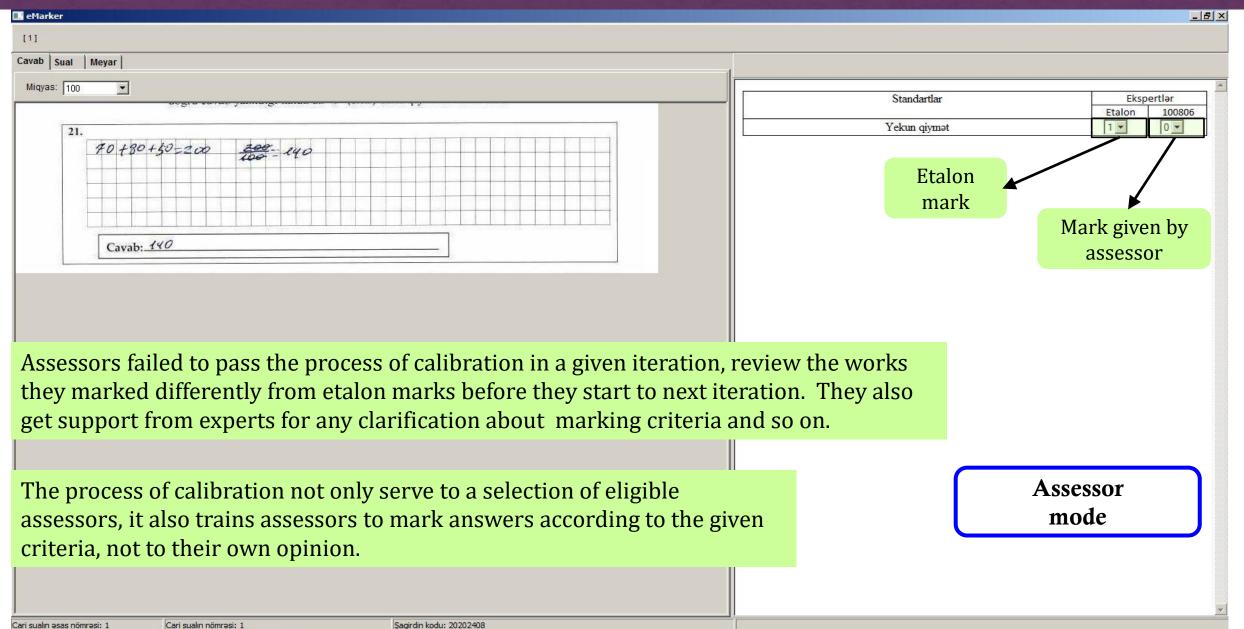
scale	Criteria		
1 point	a. Solving process is wholly correct (at least natural solutions of both then the elements of Euler-Venn diagram are filled correctly or a correctly and then the elements of Euler-Venn diagram are filled of b. Euler-Venn diagram is filled correctly (even the natural solutions)	t least both sets A and B are found correctly);	
	 c. Natural solutions of both inequalities are correct, but the elements wrong or <i>not written</i> at all. d. Natural solutions of both inequalities (or both sets A and B) are for B\A = {12, 13, 14}, A ∩ B = {9, 10, 11} all three are correct (In the 	ound correctly and sets $A \setminus B = \{7, 8\}$,	
$\frac{1}{2}$ point	 diagram isn't written at all); e. The set A and set B are both found correctly, any of these three p and A ∩ B) is filled correctly, but the elements of other two parts f. Natural solutions or sets A and B are written incorrectly because (<) with the sign of ≤ (at least for one), (if these type of mistakes l incorrectly, then marking still should be done relatively to this cannot be a sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign of sign	of sample works", the marking refined and confirmed for	ng criteria are
	g. In Euler-Venn diagram inequalities are written on their own solu incorrect);		
0 point	h. All the other cases.		

The process of calibration of assessors before the assessment.





The process of calibration of assessors before the assessment.

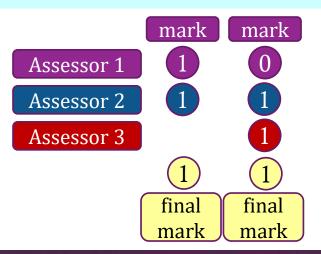


The assessment process carrying out item by item.

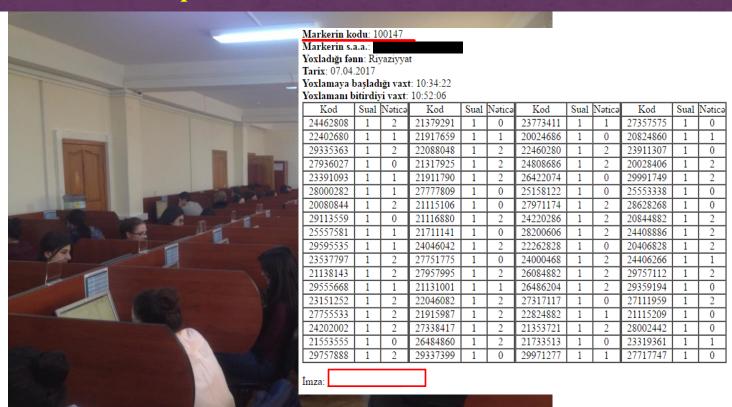
The students' works on given item is selected randomly by program and is presented to two assessors for marking which are also selected randomly.

If the marks given by these two assessors **match** with each other, then the given mark is entered as **a final mark**.

If not. The program present the same work to third assessor.



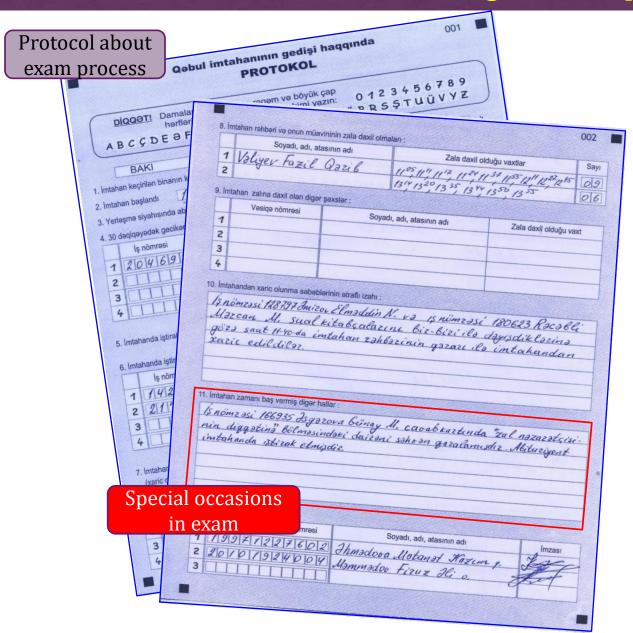
Assessment process.



During the assessment processes the assessors use the refined version of the marking criteria.

Assessors needs to pass the calibration process prior to assessment of works on each item.

Investigation of special occasions.



Investigations are carrying out according to

- ✓ records of invigilators on their protocols of exam process
- ✓ notes of assessors on assessment process

Main issues

- ❖ Writing of the solution of one item to space allocated to another item
- ❖ Writing of the solution of an item out of the frame allocated for that item
- Low quality scanned works

Announcement of results.

Sinif: 11 Bölmə: Azərbaycan Xarici dil: İngilis dili Variant: B İmtahanın tarixi: 28.04.2019

Marici dii																														
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Azərbaycan dili

		qapalı tes	tlər		y.	azı işləri		qapalı testlər	yazı işləri	
Sual Nº	31 32 3	33 34 35 36 37 38 3	9 40 4	1 42 43 44 45	46 47	7 48 49	50	⁵ Multiple ⁵⁵	56 57 58 59 60	Items
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Cavab	B D	Multipl <mark>e c</mark> ho	ice i	terns A D	0 0.	5 1 0	0.5	EACDA	1 0 1 1 0	Marks
		+ + + + - +	+ - +	+ + + +	0 1	2 0	1	items +	2 0 2 2 0	Marks
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(Dq)		Seriv Cavabiariii Sayi	IIIIuiia	bal (Ny)	(54)	,, 5,2	_			
15		5	0	10	6	2.5] r	Cotal sco	re	

Riyaziyyat

	qapalı testlər													açıq testlər						yazı işləri								
Sual №	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	7	79	80	81	82	83	84	85		
Doğru cavab	Ε	D	С	Α	Ε	В	С	С	В	D	D	Α	Ε	12	13	2	4	100										
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6				7 0							0							2 3							3	0.00	18.8	

Xarici dil fənnindən ümumi bal: 13.5; Azərbaycan dili fənnindən ümumi bal: 62.5; Riyaziyyat fənnindən ümumi bal: 18.8; Ümumi bal: 94.8

İngilis dili fənnində açıq tipli test tapşırıqları üzrə qiymətləndirmə meyarları (28.04.2019)

Azərbaycan dili fənnində açıq tipli test tapşırıqları üzrə qiymətləndirmə meyarları (28.04.2019)

Riyaziyyat fənnində açıq tipli test tapşırıqları üzrə qiymətləndirmə meyarları (28.04.2019)

Cavab vərəqinin 1-ci vərəqinin ön üzünün qrafik təsvirinə buradan baxa bilərsiniz (28.04.2019)

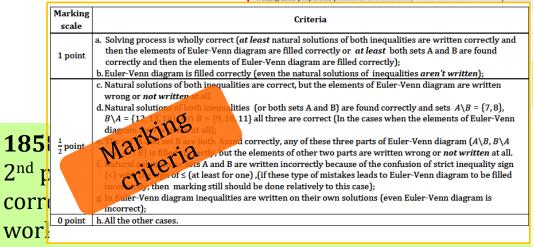
Cavab vərəqinin 1-ci vərəqinin arxa üzünün grafik təsvirinə buradan baxa bilərsiniz (28.04.2019)

Students were also provided with

- ✓ the scanned versions of written works on subject Native language and mathematics
- ✓ the marking criteria of each item on both subjects

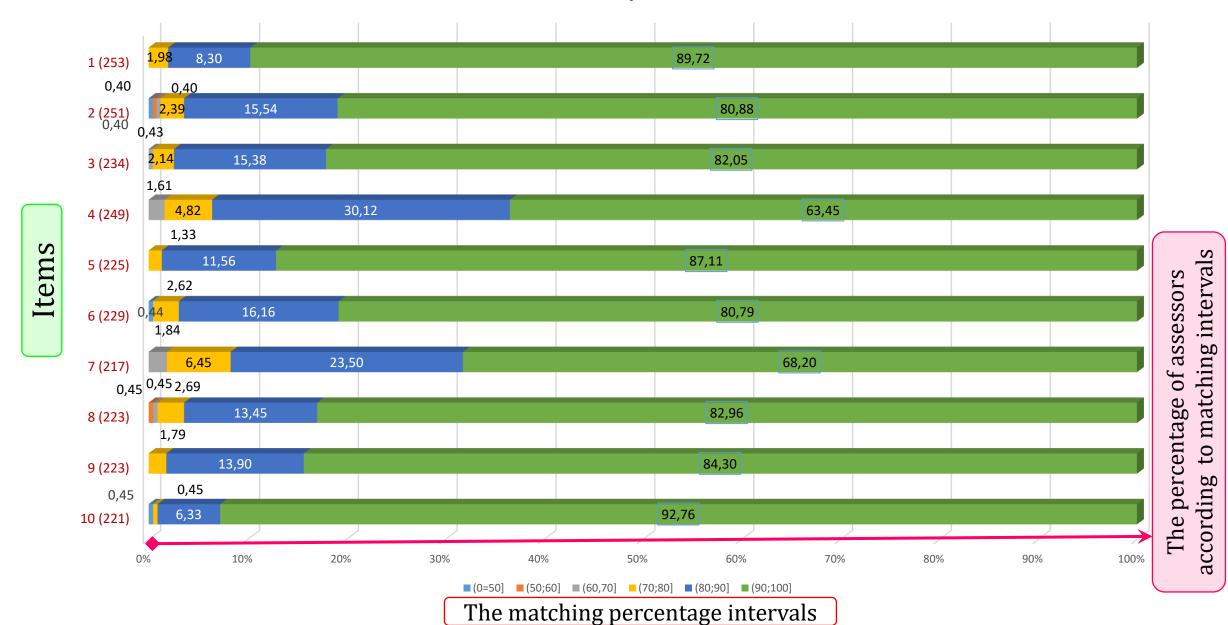
MATHEMATICS

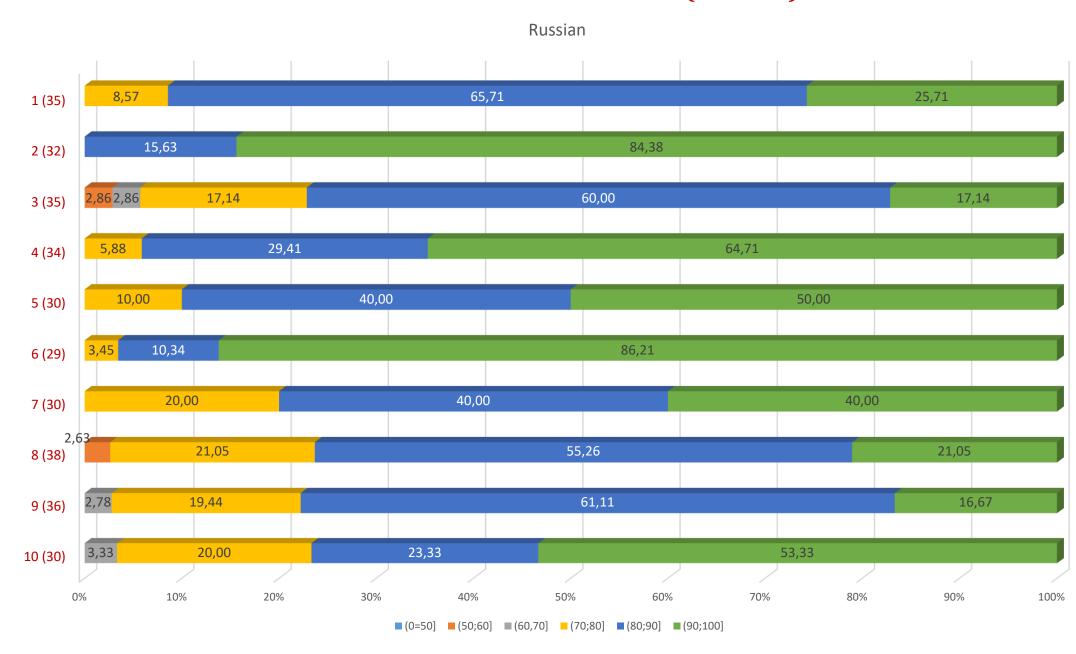
Write the detailed solution for each math problem (with explanation of each step and writing used properties, postulates and theorems). Write the answer for each question is

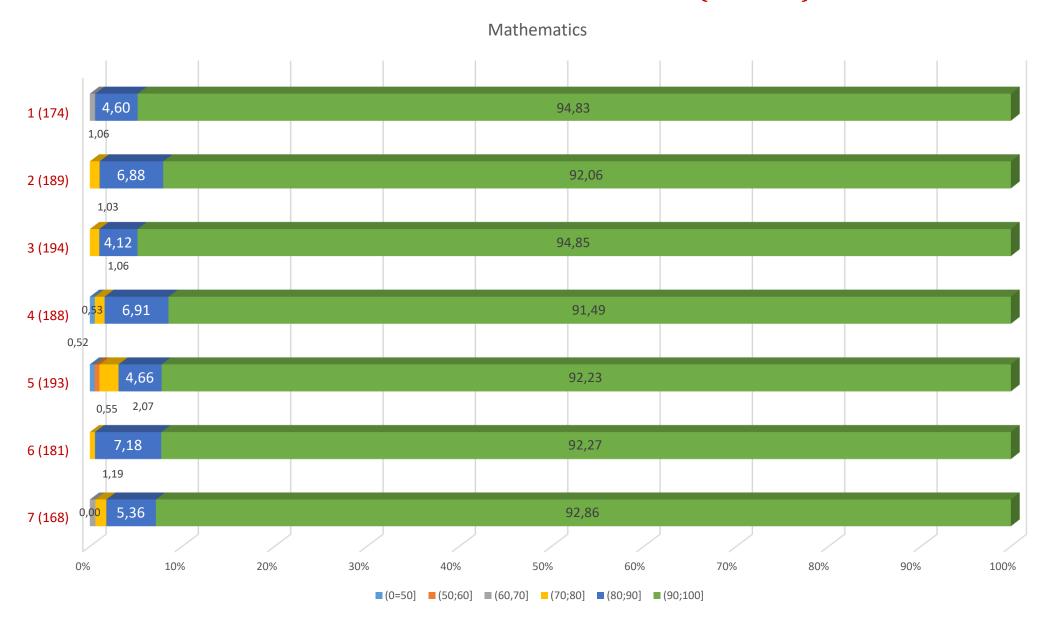


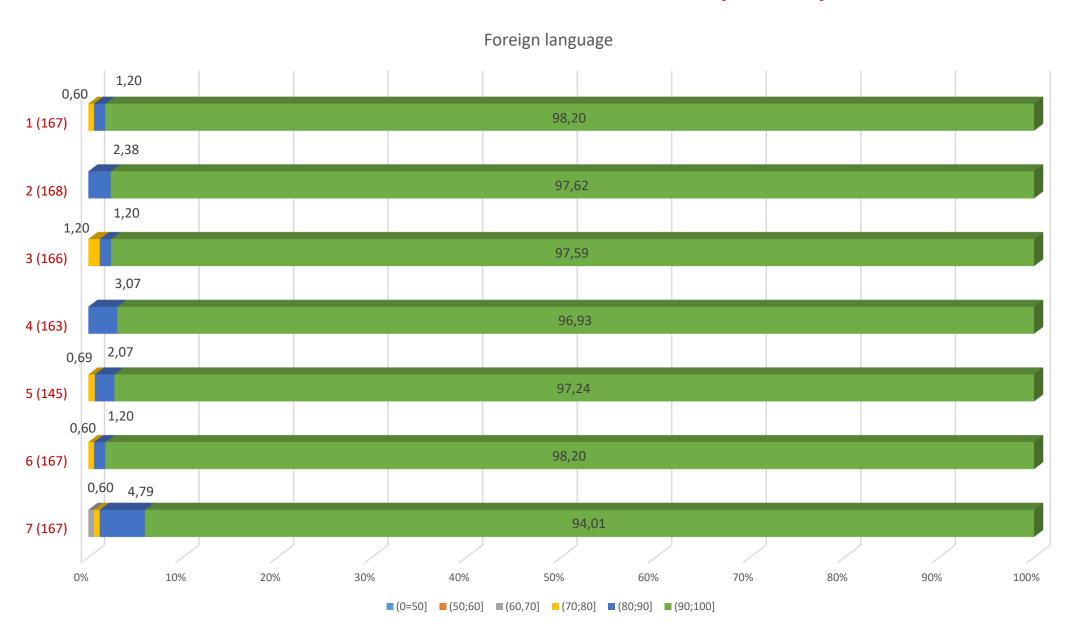
Appeal Council made corrections on **726 students**' (0.43% of all students) marks on **892 works** in total (**0.03%** of all works).

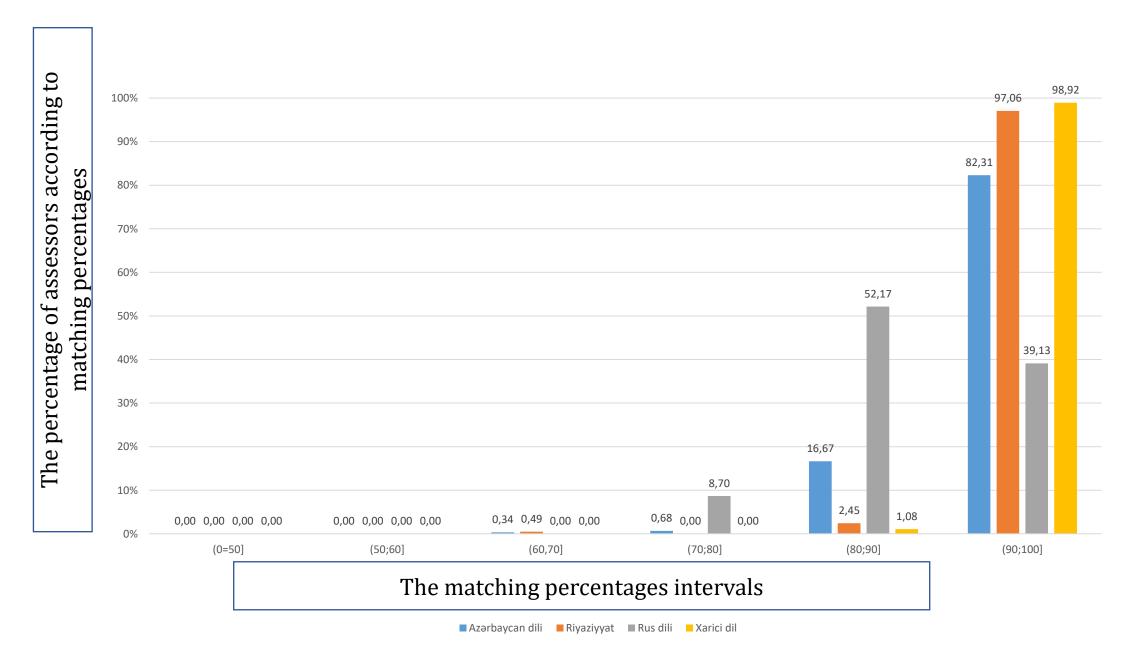
Azerbaijanian











THANKS FOR YOUR ATTENTION

The State Examination Center of the Republic of Azerbaijan

http://dim.gov.az/en/

September | 2019 Baku, Azerbaijan