

Samarqand davlat universitetning Kattaqo'rg'on filiali Aniq va tabiiy fanlar fakulteti bahorgi semestr Matematika ta'lim yo'nalishi: 3-kurs talabalariga «Mental arifmetika» fanidan yakuniy nazorat savollari

Imtihon shakli: yozma, og'zaki

№	Mavzu	1-QISM “NAZARIY SAVOLLAR 1” deb nomalanadi va semestrda o'qitilishi rejalashtirilgan mavzularning kirish va 1-reja qismidan asosan nazariy savollardan iborat bo'ladi (tayanch iborasi bo'ladi).	2-QISM “NAZARIY SAVOLLAR 2” deb nomalanadi va semestrda o'qitilishi rejalashtirilgan mavzularning 2-rejasidan asosan mulohazaviy savollardan iborat bo'ladi (tayanch iborasi bo'ladi).	3-QISM “AMALIY SAVOLLAR 1” deb nomalanadi va semestrda o'qitilishi rejalashtirilgan mavzularning asosan misol, masala kabi savollardan iborat bo'ladi (tayanch iborasi bo'lmaydi).	4-QISM “AMALIY SAVOLLAR 2” deb nomalanadi va semestrda o'qitilishi rejalashtirilgan mavzularning misol hamda masala kabi savollardan iborat bo'ladi (tayanch iborasi bo'lmaydi).	5-qism “AMALIY SAVOLLAR 3” deb nomalanadi va semestrda o'qitilishi rejalashtirilgan mavzularning misol masala savollardan iborat bo'ladi (tayanch iborasi bo'lmaydi).
1.	Tanishtiruv, abakusda ishlash qoidalari.	Abakusning tuzilishi haqida ma'lumot bering. Bir xonali sonlarni abakusda tasvirlang.	Abakusning tuzilishi haqida ma'lumot bering. Ikki xonali sonlarni abakusda tasvirlang.	Yuqori va pastki marjon toshlarni tushuntiring.	Mental arifmetika qanday dastur ?	Abakusning 5 qoidasini tushuntiring.
2.	Abakusda sonlarni hosil qilish	Abakusning tuzilishi haqida ma'lumot bering. Uch xonali sonlarni abakusda tasvirlang.	Osmon toshlari va yer toshlari haqida ma'lumot bering.	Mental arifmetika fanining rivojlanish tarixi.	Mental arifmetika dasturi bolalarga qaysi malakalarini rivojlantirishga yordam beradi ?	Mental arifmetika fanining maqsad va vazifalarini tushuntiring.

3.	Kichik do'st formulalari haqida.	Abakusda kichik do'stga doir ikki xonali sonlar ustida qo'shish amalini tushuntirib bering	Abakusda kichik do'stga doir uch xonali sonlar ustida qo'shish amalini tushuntirib bering	<table><tr><th colspan="6">Abakus yordamida hisoblang</th></tr><tr><th>№</th><th>1</th><th>2</th><th>3</th><th>4</th><th>5</th></tr><tr><td>A</td><td>2</td><td>1</td><td>4</td><td>3</td><td>2</td></tr><tr><td>A</td><td>2</td><td>4</td><td>2</td><td>3</td><td>4</td></tr><tr><td>A</td><td>-4</td><td>-2</td><td>-3</td><td>-4</td><td>-3</td></tr><tr><td>A</td><td>3</td><td>3</td><td>4</td><td>3</td><td>4</td></tr><tr><td>A</td><td>2</td><td>-4</td><td>-3</td><td>-2</td><td>-5</td></tr><tr><td>A</td><td>-3</td><td>2</td><td>5</td><td>3</td><td>3</td></tr><tr><td>A</td><td>4</td><td>3</td><td>3</td><td>-4</td><td>-1</td></tr><tr><td>A</td><td>-5</td><td>-4</td><td>-4</td><td>5</td><td>2</td></tr><tr><td>=</td><td></td><td></td><td></td><td></td><td></td></tr></table>	Abakus yordamida hisoblang						№	1	2	3	4	5	A	2	1	4	3	2	A	2	4	2	3	4	A	-4	-2	-3	-4	-3	A	3	3	4	3	4	A	2	-4	-3	-2	-5	A	-3	2	5	3	3	A	4	3	3	-4	-1	A	-5	-4	-4	5	2	=						<table><tr><th colspan="6">Abakus yordamida hisoblang</th></tr><tr><th>№</th><th>1</th><th>2</th><th>3</th><th>4</th><th>5</th></tr><tr><td>A</td><td>7</td><td>8</td><td>6</td><td>5</td><td>7</td></tr><tr><td>A</td><td>-4</td><td>-4</td><td>-3</td><td>-3</td><td>-4</td></tr><tr><td>A</td><td>3</td><td>1</td><td>2</td><td>4</td><td>3</td></tr><tr><td>A</td><td>-2</td><td>-3</td><td>-1</td><td>-2</td><td>-2</td></tr><tr><td>A</td><td>5</td><td>4</td><td>3</td><td>1</td><td>1</td></tr><tr><td>A</td><td>-4</td><td>-3</td><td>-4</td><td>-3</td><td>-3</td></tr><tr><td>A</td><td>-3</td><td>2</td><td>2</td><td>4</td><td>3</td></tr><tr><td>A</td><td>4</td><td>-4</td><td>-3</td><td>-4</td><td>-4</td></tr><tr><td>=</td><td></td><td></td><td></td><td></td><td></td></tr></table>	Abakus yordamida hisoblang						№	1	2	3	4	5	A	7	8	6	5	7	A	-4	-4	-3	-3	-4	A	3	1	2	4	3	A	-2	-3	-1	-2	-2	A	5	4	3	1	1	A	-4	-3	-4	-3	-3	A	-3	2	2	4	3	A	4	-4	-3	-4	-4	=						Mutaxasislarning fikricha mental arifmetika dasturi qaysi yosh oralig'idagi bolalarga o'rgatilishi maqsadga muvofiq ?												
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15.	Sodda koʻpaytirish qoidasi. Karra-karra jadvali.	Mental arifmetikada koʻpaytirish amalini tez bajarishning qanday usullari mavjud? Izohlab bering	Oʻzaro yaqin sonlarni koʻpaytirishning qanday qulay usullari bor? Izohlab bering	Abakusda $243 * 8 = ?$ ni hisoblang.	Abakusda $2458 * 7 = ?$ ni hisoblang.	Abakusda $44223 * 6 = ?$ ni hisoblang.																																																																																									
16.		Mental arifmetikada qaysi koʻpaytirish usuli eng samarali hisoblanadi?	Kvadrat raqamlarni tez hisoblash usuli qanday?	Abakusda $243123 * 6 = ?$ ni hisoblang.	Abakusda $356425 * 8 = ?$ ni hisoblang.	Abakusda $2412353 * 9 = ?$ ni hisoblang.																																																																																									
17.	Murakkab koʻpaytirish qoidasi	Qanday sonlarni koʻpaytirish mental hisoblash uchun qulayroq? Misollar keltiring.	Mental arifmetikada ikkita katta sonni koʻpaytirishda qanday strategiyalar samarali?	Abakusda $243 * 78 = ?$ ni hisoblang.	Abakusda $1543 * 518 = ?$ ni hisoblang.	Abakusda $241423 * 882 = ?$ ni hisoblang.																																																																																									

18.		Kvadrat sonlarni mental hisoblashning qanday usullari bor?	Mental arifmetikada ko'paytirishning qanday o'ziga xos usullari mavjud va ularni qanday qo'llash mumkin?	Abakusda $12243 * 961 = ?$ ni hisoblang.	Abakusda $252143 * 884 = ?$ ni hisoblang.	Abakusda $23543 * 8874 = ?$ ni hisoblang.
19.	Abakusda bo'lish amali. Sodda bo'lish qoidasi.	Abakusda bo'lish amalini qanday bajarish mumkin?	Bo'lish va ko'paytirish o'zaro qanday bog'langan?	Abakusda $\frac{322}{7} = ?$ ni hisoblang.	Abakusda $\frac{71055}{9} = ?$ ni hisoblang	Abakusda $\frac{546}{6} = ?$ ni hisoblang
20.		Abakus yordamida bo'lishni qanday tez bajarish mumkin?	Abakus yordamida bo'lishni tezroq bajarish uchun qanday strategiyalar qo'llaniladi?	Abakusda $\frac{405}{9} = ?$ ni hisoblang	Abakusda $\frac{1824}{4} = ?$ ni hisoblang	Abakusda $\frac{39282}{6} = ?$ ni hisoblang
21.	Murakkab bo'lish amali.	Abakus yordamida birliklar, o'nliklar va yuzliklar asosida bo'lishni qanday tushuntirish mumkin?	Abakus yordamida uch xonali sonni ikki xonali songa bo'lish qanday amalga oshiriladi?	Abakusda $\frac{2070}{44} = ?$ ni hisoblang	Abakusda $\frac{36693}{81} = ?$ ni hisoblang	Abakusda $\frac{29430}{45} = ?$ ni hisoblang
22.		Abakus yordamida qoldiqli bo'lish qanday amalga oshiriladi?	Qoldiqli bo'lishda qoldiq qanday taqsimlanadi va qanday hollarda u yo'qoladi?	Abakusda $\frac{5607}{89} = ?$ ni hisoblang	Abakusda $\frac{32700}{50} = ?$ ni hisoblang	Abakusda $\frac{80350}{25} = ?$ ni hisoblang
23.	Abakusda ildiz chiqarish qoidasi.	Abakusda ildiz chiqarish qoidalari haqida gapirib bering	Abakusda kvadrat ildiz chiqarishda foydalaniladigan qoidalar	Abakusda $\sqrt{2209} = ?$ ni hisoblang	Abakusda $\sqrt{3025} = ?$ ni hisoblang	Abakusda $\sqrt{93025} = ?$ ni hisoblang
24.	Abakusda ildiz chiqarish qoidasi.	Abakus yordamida ildiz chiqarishni tezlashtirish usullari	Kvadrat ildiz chiqarishning asosiy tamoyillari	Abakusda $\sqrt{24649} = ?$ ni hisoblang	Abakusda $\sqrt{622521} = ?$ ni hisoblang	Abakusda $\sqrt{426409} = ?$ ni hisoblang
25.	Abakusda kasr sonlarni kiritish.	Abakusda kasr sonlarni qanday kiritish mumkin?	O'nlik kasrlarni kiritish	Abakusda $\frac{1}{2} + \frac{7}{4} = ?$ ni hisoblang	Abakusda $\frac{17}{18} + \frac{1}{4} = ?$ ni hisoblang	Abakusda $\frac{5}{2} - \frac{7}{10} = ?$ ni hisoblang

26.		Oddiy kasrlarni kiritish	Abakusda kasr sonlar bilan amallar bajarish	Abakusda $2.5 + 6.4 = ?$ ni hisoblang	Abakusda $8.5 - 7.8 = ?$ ni hisoblang	Abakusda $10 - 6.4 = ?$ ni hisoblang
27.	Abakusda kasr sonlarni ko'paytirish	Abakusda kasr ko'paytirishning asosiy tamoyillari	Abakusda o'nlik kasrlarni ko'paytirish	Abakusda $2.5 * 6.4 = ?$ ni hisoblang	Abakusda $\frac{17}{18} * \frac{1}{4} = ?$ ni hisoblang	Abakusda $\frac{5}{2} * \frac{7}{10} = ?$ ni hisoblang
28.		Abakusda oddiy kasrlarni ko'paytirish	Abakusda murakkab kasrlarni ko'paytirish	Abakusda $\frac{17}{18} : \frac{1}{4} = ?$ ni hisoblang	Abakusda $\frac{5}{2} : \frac{7}{10} = ?$ ni hisoblang	Abakusda $8.5 * 7.8 = ?$ ni hisoblang
29.	Abakusda foiz amali.	Abakusda foizni ifodalash	Abakusda foizni hisoblash	Abakus yordamida hisoblang: 25 soni 200 ning necha foizi?	Abakus yordamida hisoblang: 250 ning 12% ini toping	Abakus yordamida hisoblang: 120 ning 25% ini toping
30.		Sonning necha foiz ekanligini topish	Foiz ortishi yoki kamayishini hisoblash	Abakus yordamida hisoblang: 90 soni 180 ning necha foizi?	Abakus yordamida hisoblang: Telefon narxi 500 000 so'm edi, 15% chegirma berildi. Yangi narx qancha?	Abakus yordamida hisoblang: Biror mahsulot narxi 150 000 so'm edi, u 20% ga oshdi. Yangi narx qancha?