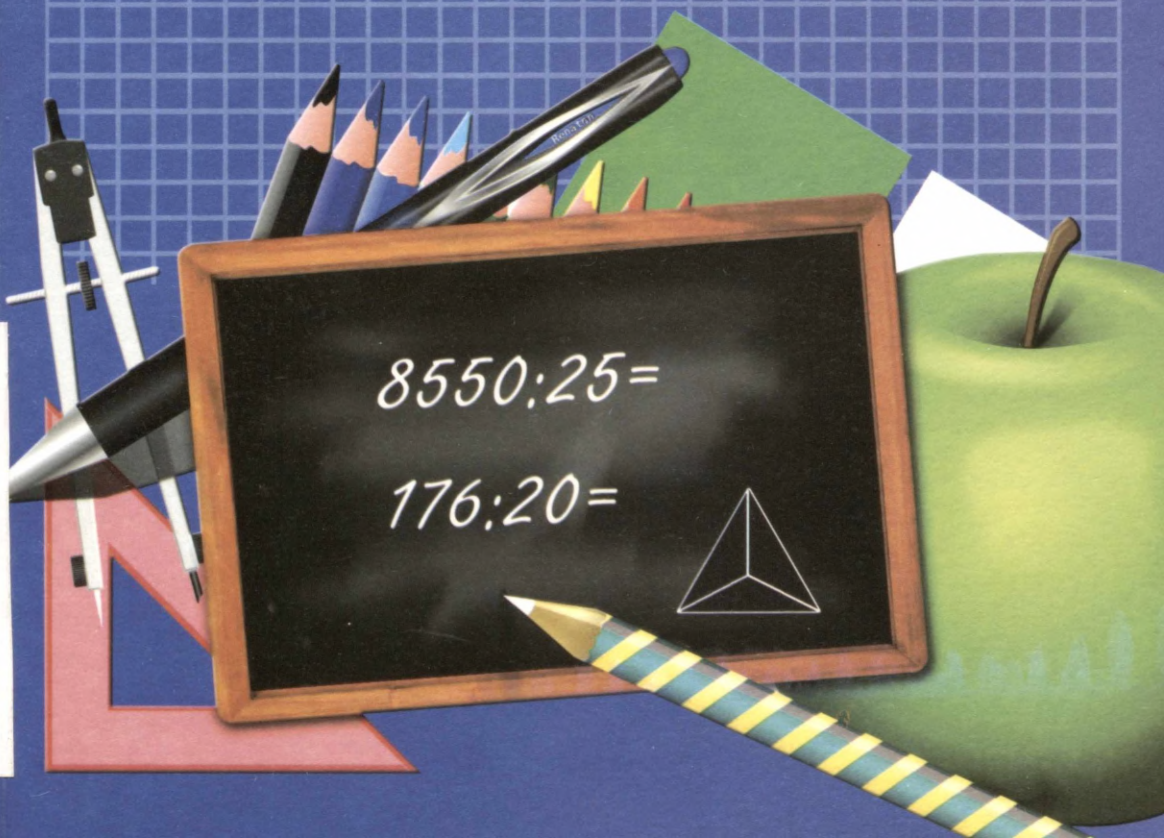


MATEMATIKA

7



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M. BARAKAYEVA

MATEMATIKA

*Imkoniyati cheklangan bolalar uchun ixtisoslashtirilgan maktab
va maktab-internatlarning 7-sinf darsligi*

Ikkinchi nashr

*O'zbekiston Respublikasi Xalq ta'limi vazirligi
tomonidan tasdiqlangan*

«MAJBURIY NUSXA»

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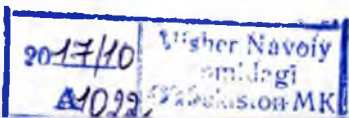
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YUZ MING ICHIDA RAQAMLASH

1, 2, 3 ... – bu natural sonlar. Shu paytgacha biz bilgan sonlardan eng kattasi 10000 dir.

1. 1) Quyidagi sonlarni yozishda nechta raqam (belgi) qo'llanilgan:

9; 36; 500; 825; 1200, 3042, 6703; 10000?

Bu sonlarning har biriga 1 ta birlik qo'shib chiqsangiz undan keyin keladigan son hosil bo'ladi. Bu songa yana 1 ta birlik qo'shsa bo'ladimi? Bunda qanday son hosil bo'ladi? Istalgan songa 1 ni qo'shsa bo'ladimi? Bunda qanday son hosil bo'ladi?

Bittadan qo'shish amalini istagancha davom ettirish mumkin. Shuning uchun eng katta natural sonning o'zi yo'q, natural sonlar cheksizdir.

2) Har bir son uning raqamlari soniga qarab qanday ataladi?

2. 1 tadan, 10 tadan, 100 tadan, 1000 tadan, 10000 tadan qo'shib sanang.

1, 10 ta birlik bu o'nlikdir

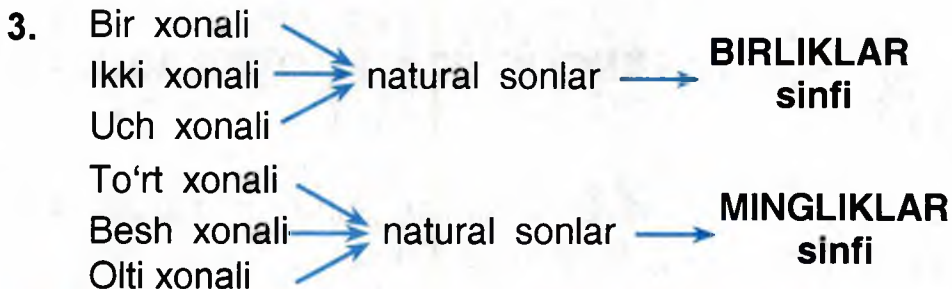
10, 10 ta o'nlik yuzlikdir

100, 10 ta yuzlik minglikdir

1000, 10 ta minglik o'n minglikdir

10000, 10 ta o'n minglik yuz minglikdir.

100000 – yuz ming – 10 ta o'n minglik – olti xonali son.



Har bir sinf 3 ta xonadan tashkil topadi

4. Sonlarni o'qing:

Mingliklar sinfi			Birliklar sinfi		
6	5	4	3	2	1
yuz minglar	o'n minglar	bir minglar	yuzlar	o'nlar	birar
				4	3
			3		
	1				
					6
		3	1	2	8
1					

Sonlar qaysi sinf va xona birliklariga tegishli?

5. Tushirib qoldirilgan sonlarni yozing:

10000, ... , 30000, ... , ... , 60000, ... , ... , 90000,

100000 – 10000 ga nisbatan katta son.

100000 kun taxminan 274 yilga teng.

100000 ta harf – bu 35 betdan iborat bo'lgan kitobdir.

1 dan 100000 gacha to'xtamay sanash uchun bir sutkadan ortiqroq vaqt kerak bo'ladi.

6. Sonlarni jufti bo'yicha o'qing:

20	16000	100	9	32000	80
20000	16	100000	9000	32	80000

Qanday sonlar birliklar sinfiga, qaysilari mingliklar sinfiga kiradi.

7. 1) uch xonali; 2) to'rt xonali; 3) besh xonali sonlarga 1 tadan misol keltiring.

8. Quyidagi sonlarni o'qib, daftaringizga yozing.

1) 20, 2000, 20000; 3, 300, 3000, 30000; 6000, 60000.

2) 45, 189, 6001, 6107, 10000, 10001, 15000, 15100, 15109.

9. Sonlarni o'qing va qaysi sinfga tegishli ekanini ayting:

400	4000	10000	25000	78100
401	4100	10300	25007	78125
410	4001	10003	25070	78105
416	4010	10030	25700	78005

10. Raqamlar bilan yozing:

a) yigirma ming; o'ttiz bir ming; to'rt ming bir yuz; o'n besh ming ikki; ikki ming o'n besh;

b) besh ming olti; ellik ming olti; ellik olti ming.

11. Tushirib qoldirilgan sonlarni yozing:

6999, ... , ... , ... , ... , 7004

29998, ... , ... , ... , 30002

27000, ... , ... , ... , ... , 27005

99996, ... , ... , ... , 100000

12. 638; 1950; 10296; 35996; 13500; 13897; 99995 sonlarining har biridan keyin keluvchi 5 ta dan son yozing.

13. Sonlarni namunada ko'rsatilgandek xona qo'shiluvchilari yig'indisi ko'rinishida yozing:

Namuna: $25783 = 20000 + 5000 + 700 + 80 + 3.$

59630; 40100; 13209; 63008; 5120; 74500; 82503;
18005; 30008; 10020; 41136; 20740; 56003; 94045;
67700; 8012.

14. Sonlarni namunada ko'rsatilgandek xona qo'shiluvchilari yig'indisi ko'rinishida yozing:

$90000 + 3000 + 400 + 10 + 5 = 93415.$

$50000 + 600 + 30 + 1 =$	$60000 + 8000 + 300 =$
$30000 + 3 =$	$20000 + 60 + 1 =$
$40000 + 80 =$	$7000 + 6 =$

15. Tushirib qoldirilgan sonlarni xona birligi ko'rinishida yozing:

$27183 = 20000 + \dots + 100 + \dots + 3$

$38605 = 30000 + \dots + 600 + \dots$

$60594 = 60000 + \dots + 90 + \dots$

$54012 = 50000 + \dots + \dots + 2$

$23006 = \dots + 3000 + \dots$

16. Yig'indini toping:

$30000 + 6000 + 30 + 2 =$	$20000 + 30 + 1 =$
$80000 + 100 + 20 =$	$60000 + 3000 + 400 =$
$50000 + 7 =$	$90000 + 2000 + 80 =$
$40000 + 5000 + 300 + 7 =$	$30000 + 600 + 40 + 5 =$

17. 1) Sonlarni $>$ yoki $<$ belgilari yordamida taqqoslang.

- a) ikki xonali va to'rt xonali son;
b) besh xonali va to'rt xonali son.



Eslang! Ikkita natural sondan qaysi birining xonalari soni katta bo'lsa, o'sha son kattadir.

2) Sonlarni $>$ yoki $<$ belgilari yordamida taqqoslang:

30631 ... 9897		80103 ... 9999		10001 ... 10000
1304 ... 13004		10000 ... 100000		6345 ... 80000

18. 1) **82 473** va **79 800** sonlarini taqqoslang. Bunda ikkala sondagi xonalarning soni bir xil.



Taqqoslash yuqori xona birligidan boshlanadi.

82 473 sonida 8 ta o'n minglik, 79 800 sonida esa 7 ta o'n minglik bor.

Demak, $82473 > 79800$.

2) Sonlarni taqqoslang va $>$, $<$, $=$ belgilaridan mosini qo'ying:

a) 31 625 ... 54 280		60 003 ... 29 837		90 407 ... 69 800
37 003 ... 73 000		81 184 ... 10 000		43 271 ... 50 101

b) 6 234 ... 2 735		27 005 ... 27 500		39 000 ... 9 999
72 560 ... 73 000		10 010 ... 10 100		6 001 ... 60 001

d) 28 315 ... 28 400		7 607 ... 67 007		79 026 ... 78 926
10 648 ... 10 648		39 007 ... 35 008		56 413 ... 5 641

19. Sonlarni o'qing. Eng katta sonning tagiga chizing. Sonlarni kamayib borish tartibida yozing:

a) 16 394; 70 538; 59 197; 31 002; 38 409; 31 100;

b) 91 230; 19 300; 90 123; 91 003; 90 003; 60 100; 61 000; 16 999; 60 009; 69 000.

20. Natural sonlar qatorida berilgan sonlardan oldin va keyin keladigan sonlarni yozing:

... ; 990; ; 5999; ; 10000; ; 10100;
 ... ; 999; ; 7000; ; 12999; ; 12009;

SONLARNI YAXLITLASH

21. Ba'zi hollarda ko'p xonali sonlarni yaxlitlashga ehtiyoj seziladi. Bunda « \approx » (taqriban tenglik) belgisidan foydalaniladi. Masalan:

$$\underline{2}32 \approx 230$$

$$\underline{2}38 \approx 240$$

$$\underline{2}3\dot{2} \approx 200$$

$$\underline{2}81 \approx 300$$

$$\underline{7}428 \approx 7000$$

$$\underline{7}975 \approx 8000$$

$$\underline{12}168 \approx 10000$$

$$\underline{17}630 \approx 20000$$

Yuqoridagi misollarda yaxlitlash qaysi tartibda bajarilgan?



Sonlarni yaxlitlashda quyidagi qoidalarga rioya qilinadi:

- 1) Kerakli xona raqamlari tagiga chizish;
- 2) Yaxlitlanayotgan xonaning o'ng tarafida turgan raqamga e'tibor bering.
- 3) Sonni yaxlitlash.

22. Sonlarni o'nlar, yuzlar, minglar, o'n minglar xonasigacha yaxlitlash:

o'nlar	yuzlar	minglar	o'n minglar
3257	67523	50632	35142
28043	81403	31249	21690
99999	967	67815	59708
52698	99999	99999	99999
4345	72967	54207	70345
17098	1149	8096	33658



MUSTAHKAMLASH UCHUN MASHQLAR

I-qator

1. Sonlarni xona qo'shiluvchilari yig'indisi ko'rinishida yozing:
 $45083 = \dots + \dots + \dots + \dots$ $27106 = \dots + \dots + \dots + \dots$
2. Xona qo'shiluvchilarining yig'indisini toping:
 $60000 + 7000 + 300 + 40 + 9 =$
 $80000 + 4000 + 60 =$
3. Sonlarni taqqoslang va $>$, $<$, $=$ belgilaridan mosini qo'ying:
 $35659 \dots 35695$ $10000 \dots 100000$
 $80002 \dots 80200$ $99990 \dots 100000$
4. Tushirib qoldirilgan qo'shni sonlarni yozing:
 $45679, \dots$; $3549, \dots$; \dots , 10000 .

II-qator

1. Sonlarni xona qo'shiluvchilari yig'indisi ko'rinishida yozing:
 $10325 = \dots + \dots + \dots + \dots$ $6780 = \dots + \dots + \dots$
2. Xona qo'shiluvchilarining yig'indisini toping:
 $10000 + 2000 + 600 + 30 + 8 =$
 $1000 + 300 + 7 =$
3. Sonlarni taqqoslang va $>$, $<$, $=$ belgilaridan mosini qo'ying:
 $83450 \dots 8260$ $70150 \dots 71050$
 $25140 \dots 93000$ $99660 \dots 99966$
4. Tushirib qoldirilgan qo'shni sonlarni yozing:
 $53283, \dots$; $10001, \dots$; \dots , 10001 .



KO'P XONALI NATURAL SONLARNI QO'SHISH VA AYIRISH

OG'ZAKI QO'SHISH VA AYIRISH

23. 1) Qo'shish amalini bajarishdagi sonlar qanday ataladi? Ayirishda-chi?
- 2) Misollarni og'zaki yeching:

$36 + 27$

$97 - 26$

$1\ 200 + 1\ 300$

$4\ 500 - 2\ 100$

$160 + 340$

$1\ 000 - 200$

$27\ 000 + 12\ 000$

$45\ 000 - 21\ 000$

$5\ 600 + 2\ 000$

$7\ 400 - 5\ 000$

$70\ 000 + 20\ 000$

$45\ 600 - 21\ 000$

$13\ 000 + 15\ 000$

$25\ 000 - 12\ 000$

$31\ 000 + 45\ 000$



Besh xonali sonlarni qo'shish va ayirish xuddi uch va to'rt xonali sonlarni qo'shish va ayirish kabi bajariladi.

24. 4 000 ga orttiring

5 000 ga kamaytiring

2 000

7 000

15 000

26 000

6 000

5 100

10 100

10 000

25. Bosmaxonada 1200 ta «Matematika» darsligi va undan 2000 ta ko'p «O'qish» darsligi chop etildi. Bosmaxonada hammasi bo'lib nechta darslik chop etildi?

26. Yig'indini og'zaki hisoblang:

$$3000 + 215 \qquad 20000 + 13000$$

$$3000 + 1400 \qquad 60000 + 10400$$

$$3000 + 29 \qquad 42000 + 5000$$

$$3000 + 8 \qquad 63000 + 2167$$

27. Ayirmani toping:

$$8142 - 142 \qquad 39540 - 24000$$

$$10607 - 10000 \qquad 86107 - 6107$$

$$23485 - 3485 \qquad 86107 - 86000$$

$$41367 - 1300 \qquad 39540 - 40$$

28. Fermer xo'jaligida 1680 ta sigirlar va undan 240 ta kam buzoqchalar bor. Xo'jalikda nechta buzoqchalar bor?

29. Nechtaga ko'p?

Nechtaga kam?

$$23000 \quad 12000 \text{ dan} \qquad 5000 \quad 25000 \text{ dan}$$

$$18500 \quad 8000 \text{ dan} \qquad 12000 \quad 14500 \text{ dan}$$

$$24600 \quad 14600 \text{ dan} \qquad 41000 \quad 63810 \text{ dan}$$

$$15020 \quad 2000 \text{ dan} \qquad 9100 \quad 9200 \text{ dan}$$

30. Kichik korxonada 7652 kg kulrang jun va 2000 kg oq jun yigirildi. Oq jun kulrang jundan qancha kg kam yigirilgan?

YOZMA USULDA QO'SHISH VA AYIRISH

31. Namunaga qarab qo'shish qanday usulda bajarilganini tushuntiring:

$\begin{array}{r} \overset{\cdot}{2}5 \overset{\cdot}{1}24 \\ + 36 \ 806 \\ \hline 61 \ 930 \end{array}$	$\begin{array}{r} 47 \ 253 \\ + 52 \ 747 \\ \hline 100 \ 000 \end{array}$	$\begin{array}{r} 63 \ 427 \\ + 8 \ 295 \\ \hline \dots 7.2 \end{array}$	$\begin{array}{r} 6 \ 937 \\ + 4 \ 604 \\ \hline \dots 5.1 \end{array}$
----------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------	--------------------------------------------------------------------------	-------------------------------------------------------------------------

Qo'shish amali qaysi xona birligidan boshlanadi?



Besh xonali sonlarni yozma qo'shish va ayirish, to'rt xonali sonlarni qo'shish kabi bajariladi.

32. Qiymatini hisoblang:

1-qo'shiluvchi	60037	39750	84347	1246
2-qo'shiluvchi	12982	6074	5918	26805

33. Quyidagi misollarni yechishda qo'shishning qaysi usulini qo'llash mumkin?

$3057 + 56903$	$90305 + 5695$	$639 + 14845$
$72435 + 25784$	$48 + 20189$	$29007 + 16084$



Qo'shish amalining to'g'ri bajarilganini tekshirish uchun qo'shiluvchilarning o'rnini almashtiriladi.

$\begin{array}{r} + 384 \\ 67847 \\ \hline 68231 \end{array}$	$\begin{array}{r} 67847 \\ + 384 \\ \hline 68231 \end{array}$
---------------------------------------------------------------	---------------------------------------------------------------

34. Qo'shishni bajaring va natijaning to'g'riligini o'rin almash-tirish qonunidan foydalanib tekshiring:

$$\begin{array}{r} 56784 + 7042 \\ 45261 + 54739 \end{array} \quad \begin{array}{r} 35498 + 62004 \\ 7843 + 19256 \end{array} \quad \begin{array}{r} 3207 + 39896 \\ 50063 + 38945 \end{array}$$

35. Maktab issiqxonasida o'quvchilar 2568 tup chinnigul va undan 12680 ta ortiq atirgul yetishtirishdi. O'quvchilar hammasi bo'lib qancha gul yetishtirishdi?

36. Qo'shishning eng qulay usulidan foydalanib, uchta qo'shiluvchining yig'indisini toping:

$$\begin{array}{r} 12560 \\ + 5021 \\ 347 \\ \hline 17928 \end{array}$$

$$\begin{array}{l} 347 + 12560 + 5021 \\ 30567 + 893 + 2546 \\ 5294 + 86109 + 25 \\ 67819 + 10204 + 8030 \end{array}$$

37. O'tgan yili yangi uylarga 1306 ta, bu yil 9867 ta ortiq odam ko'chib kirdi. Kelasi yili bu yilgiga qaraganda 754 ta ko'p odam ko'chib kiradi. Kelasi yilda yangi uylarga qancha odam ko'chib kiradi?

38. 1) Misollarga qarang, ko'p xonali sonlarni ayirish qanday usulda bajarilganini tushuntiring:

$$\begin{array}{r} \overset{\cdot}{3}7126 \\ - 18014 \\ \hline 19112 \end{array}$$

$$\begin{array}{r} \overset{\cdot\cdot\cdot}{8}2543 \\ - 26672 \\ \hline 55871 \end{array}$$

$$\begin{array}{r} \overset{\cdot}{7}1839 \\ - 53640 \\ \hline 1\dots9 \end{array}$$

$$\begin{array}{r} \overset{\cdot\cdot\cdot}{6}3752 \\ - 37849 \\ \hline \dots3 \end{array}$$

Yozma ayirish amali birinchi bo'lib qaysi xona birligidan boshlanadi?



Besh xonali sonlarni yozma ayirish to'rt xonali sonlarni ayirish kabi bajariladi.

39. Ayirmani toping:

a) $48\,235 - 24\,316$

$59\,357 - 36\,048$

$82\,356 - 19\,248$

$96\,425 - 90\,837$

$57\,643 - 8\,904$

$49\,293 - 865$

b) $34\,842 - 23\,764$

$15\,341 - 496$

$82\,245 - 6\,907$

$80\,472 - 98$

$52\,378 - 16\,009$

$64\,533 - 17\,608$

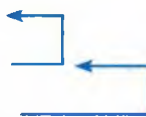
40. Do'konga 6875 kg un olib kelindi. Bundan 1396 kg birinchi navli, 950 kg ikkinchi navli, qolgani esa oliy navli un edi. Do'konga necha kilogramm oliy navli un olib kelindi?

41. Qisqa shart asosida masalani yeching:

a) I qatnovda – 12060 kg bug'doy

II qatnovda – 2620 kg ortiq

III qatnovda – 1900 kg kam – ?



b) Hammasi bo'lib – 45000 kg

I – 18640 kg

II – 2700 kg kam

III – ?



42. Ayirish amalining qanday bajarilganini tushuntiring:

$$\begin{array}{r} \overset{\cdot}{2}\overset{\cdot}{1}\overset{\cdot}{4}\overset{\cdot}{0}\overset{\cdot}{0} \\ - \overset{\cdot}{1}\overset{\cdot}{5}\overset{\cdot}{3}\overset{\cdot}{2}\overset{\cdot}{6} \\ \hline \overset{\cdot}{6}\overset{\cdot}{0}\overset{\cdot}{7}\overset{\cdot}{4} \end{array}$$

$$\begin{array}{r} \overset{\cdot}{7}\overset{\cdot}{0}\overset{\cdot}{0}\overset{\cdot}{0}\overset{\cdot}{0} \\ - \overset{\cdot}{3}\overset{\cdot}{4}\overset{\cdot}{8}\overset{\cdot}{4}\overset{\cdot}{2} \\ \hline \overset{\cdot}{3}\overset{\cdot}{5}\overset{\cdot}{1}\overset{\cdot}{5}\overset{\cdot}{8} \end{array}$$

$$\begin{array}{r} \overset{\cdot}{3}\overset{\cdot}{0}\overset{\cdot}{0}\overset{\cdot}{1}\overset{\cdot}{0} \\ - \overset{\cdot}{1}\overset{\cdot}{2}\overset{\cdot}{4}\overset{\cdot}{3}\overset{\cdot}{6} \\ \hline \overset{\cdot}{1}\overset{\cdot}{7}\overset{\cdot}{5}\overset{\cdot}{7}\overset{\cdot}{4} \end{array}$$

$$\begin{array}{r} \overset{\cdot}{1}\overset{\cdot}{0}\overset{\cdot}{9}\overset{\cdot}{2}\overset{\cdot}{0} \\ - \overset{\cdot}{6}\overset{\cdot}{8}\overset{\cdot}{3}\overset{\cdot}{7} \\ \hline \overset{\cdot}{4}\overset{\cdot}{0}\overset{\cdot}{8}\overset{\cdot}{3} \end{array}$$

43. Misollarni yeching:

$$\begin{array}{r|l|l|l} \begin{array}{r} \overset{\cdot}{8}\overset{\cdot}{0}\overset{\cdot}{1}\overset{\cdot}{0}\overset{\cdot}{0} \\ - 25406 \\ \hline 5.69. \end{array} & \begin{array}{r} \overset{\cdot}{7}\overset{\cdot}{1}\overset{\cdot}{0}\overset{\cdot}{2}\overset{\cdot}{0} \\ - 53647 \\ \hline \dots 3.3 \end{array} & \begin{array}{r} \overset{\cdot}{8}\overset{\cdot}{2}\overset{\cdot}{0}\overset{\cdot}{0}\overset{\cdot}{3} \\ - 45639 \\ \hline \dots 6.6. \end{array} & \begin{array}{r} \overset{\cdot}{7}\overset{\cdot}{0}\overset{\cdot}{4}\overset{\cdot}{0}\overset{\cdot}{5} \\ - 36841 \\ \hline 3.5\dots \end{array} \end{array}$$

44. Ayirmani toping:

$$\begin{array}{ll} 53102 - 18415 & 75004 - 36823 \\ 62150 - 23462 & 50062 - 38156 \\ 53064 - 18328 & 95100 - 15732 \\ 40710 - 6259 & 68000 - 45274 \end{array}$$

45. Nechta ortiq?

39807 dan 75004
38605 dan 54021
15046 dan 20400

Nechta kam?

50000 dan 14013
15100 dan 9308
100000 dan 30030

46. Poyabzal korxonasi 100000 juft poyabzal ishlab chiqardi. Ulardan 25100 jufti erkaklar va undan 8640 ta kam bolalar, qolgani esa ayollar poyabzali edi. Poyabzal korxonasida necha juft ayollar poyabzali ishlab chiqarilgan?

47. Misollar tuzib, hisoblang:

Kamayuvchi	70102	76187	30010	51030
Ayiriluvchi	65320	19098	9428	40349
Ayirma				

48. Misollarni yeching:

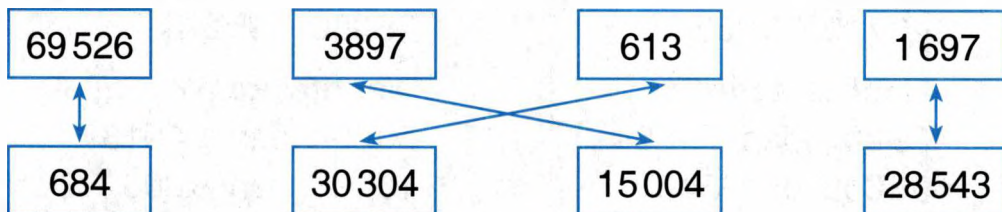
$$\begin{array}{l|l|l} 76598 - 14796 & 38586 - 21949 & 56014 - 49105 \\ 45506 - 13645 & 10223 - 8045 & 15069 - 7173 \\ 20050 - 15147 & 43307 - 16282 & 62545 - 57538 \\ 34856 - 17069 & 67532 - 62545 & 51002 - 30148 \end{array}$$

49. Ayirish amalining to'g'ri bajarilganini tekshiring. To'g'ri javoblardan mosini qo'ying:

$\begin{array}{r} - 254 \\ 127 \\ \hline 133 \end{array}$	$\begin{array}{r} - 3419 \\ 2156 \\ \hline 1343 \end{array}$	$\begin{array}{r} - 74516 \\ 28203 \\ \hline 44313 \end{array}$	$\begin{array}{r} - 84002 \\ 9723 \\ \hline 73729 \end{array}$	$\begin{array}{r} - 24000 \\ 16208 \\ \hline 7202 \end{array}$
-----------------------------------------------------------	--------------------------------------------------------------	-----------------------------------------------------------------	----------------------------------------------------------------	----------------------------------------------------------------

(7792, 1263, 46313, 74279, 127)

50. Berilgan juftliklar yordamida qo'shish va ayirishga doir misollar tuzing:



51. Maktab issiqxonasida o'quvchilar 12625 tup pomidor va undan 3740 ta kam karam ko'chatlarini yetishtirishdi. (Savolni shunday qo'yingki, masala ikki amal bilan yechiladigan bo'lsin.)

52. Mehnat darslarida o'quvchilar 21510 dona pomidor va karam ko'chatlari yetishtirishdi. Ulardan 8885 donasi karam, qolgani esa pomidor ko'chatidir. O'quvchilar karamga qaraganda nechta ortiq pomidor ko'chati yetishtirishgan?

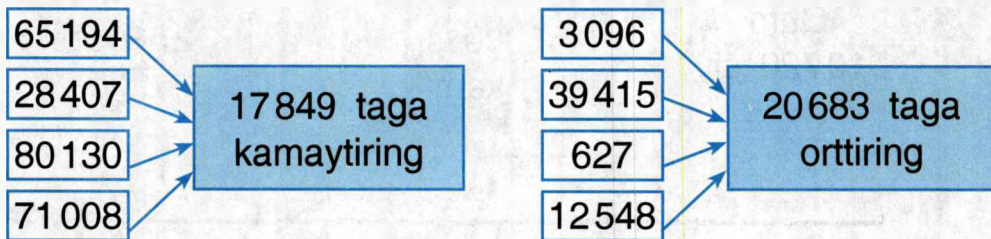
53. Ayirmani toping:

$24921 - 10815$	$75000 - 41083$	$67001 - 13065$
$67546 - 67546$	$89000 - 28106$	$14010 - 5381$

54. Yig'indini toping:

$18276 + 9371$	$11705 + 85396$	$21483 + 53657$
$5031 + 70188$	$45086 + 18560$	$93274 + 4896$

55. Amallarni misol ko'inishida yozing va yeching:



56. Chorva xo'jaligida 53694 bosh qo'ying juni qirqib olindi. Birinchi kuni 14800 bosh qo'ying, ikkinchi kuni undan 6135 bosh kam qo'ying juni olindi. Uchinchi kuni necha bosh qo'ying juni olingan?

57. Amallarni bajaring:

$$25643 + 19096 - 7859$$

$$34860 + 398 + 2547 - 18905$$

$$60000 - (3427 + 18698)$$

$$59365 + (32107 - 26095)$$

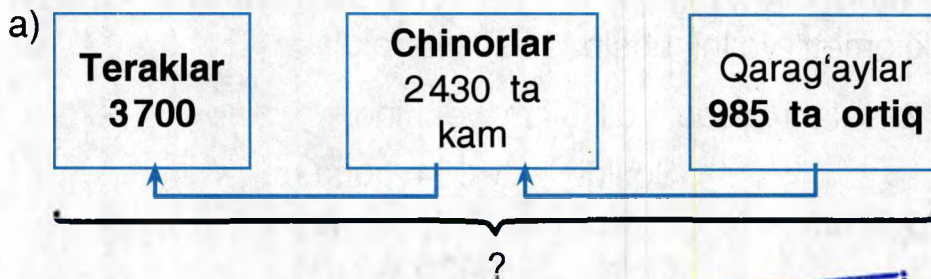
$$(15002 - 8491) + (80010 - 63407)$$

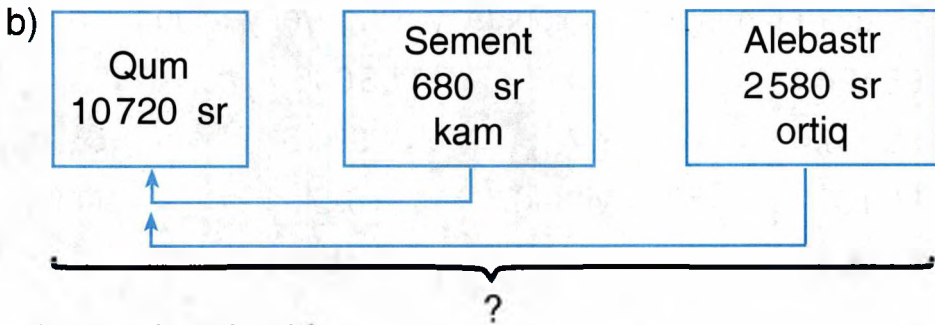
$$100000 - 97506 + 32970$$

$$(843 + 5697) - (93601 - 90987)$$

$$(60000 - 14308) + 25723 - 0$$

58. Masala tuzing va uni yeching:





Misollarni solishtiring.

59. 25638 va 34547 sonlarining yig'indisini 18549 ta kamaytiring.
60010 va 28506 sonlarining ayirmasini 36840 ta orttiring.
19487 va 40935 sonlarining yig'indisini 3689 ta orttiring.
90000 va 38106 sonlarining ayirmasini 9548 ta kamaytiring.
60. Ayirmani toping. Ayirishning to'g'ri bajarilganini qo'shish orqali tekshiring:

Tekshirish	
$\begin{array}{r} \overset{\cdot\cdot}{4}\overset{\cdot\cdot}{2}\overset{\cdot\cdot}{1}03 \\ - 18214 \\ \hline 23889 \end{array}$	$\begin{array}{r} 23889 \\ + 18214 \\ \hline 42103 \end{array}$

62685 – 3467	78564 – 7856
20789 – 14790	30000 – 23403
56600 – 1835	20507 – 9613

61. Toshkent bilan Termez shaharlarining orasi 1255 km, poyezd 837 km yo'lni bosib o'tdi. Poyezd yana necha kilometr yo'lni bosib o'tishi kerak?
62. Masalani qisqa yo'l bilan yeching.

Sotildi – 9034 dona.	
Bor edi – ?	Sotildi – 1896 dona.
	Qoldi – 547 dona.



63. Masalalarni to'ldiring va yeching.

- 1) Fermer bir qancha sabzavotlar yetishtirib, hosilini bozorga olib bordi. Ulardan ... kg bodring, bodringdan ... kg kam pomidor. Pomidor bilan bodring birgalikda qancha bo'lsa, shuncha kartoshka. Fermer bozorga hammasi bo'lib necha kilogramm sabzavot olib borgan?
- 2) Qoratosh qishlog'i aholisining ... tasi erkaklar, ... tasi ayollar, bolalar esa erkaklar va ayollar sonining jamini tashkil qiladi. Bolalarning soni erkaklarning sonidan qanchaga ortiq?

64. Birinchi son ikkinchi sonidan nechtaga kattaligini aniqlang:

72256 va 41568	42657 va 7324	24375 va 10698
80604 va 7325	73670 va 25890	80000 va 8000
24351 va 5787	94300 va 1876	25603 va 1532

65. Sonlarning yig'indisi va ayirmasini toping:

10682 va 3487	40306 va 9895	60305 va 45094
52803 va 14935	13600 va 973	21354 va 9608
26513 va 19801	50010 va 48987	3042 va 873

66. Misollar tuzib yeching:

- 1) 6708 soniga 27196 ni qo'shsa, necha bo'ladi?
- 2) 63548 va 27486 sonlarining yig'indisini toping.
- 3) 20000 dan 8307 ni ayirsa, necha bo'ladi?
- 4) 60108 va 25439 sonlarining ayirmasini toping.
- 5) 81406 soni 32564 dan nechta ortiq?

67. Nashriyot bir yilda 90648 nusxada kitoblarni nashrdan chiqardi. Undan 70705 tasi darslik va darslikdan 4580 ta kam badiiy adabiyot, qolgani esa bolalar adabiyotidir. Nashriyot necha nusxada bolalar adabiyotini nashrdan chiqargan?



MUSTAHKAMLASH UCHUN MASHQLAR

- Amallarni bajaring va natijani tekshiring:
 $57381 + 26459$ $85426 - 61507$
 $63574 + 9864$ $82054 - 8658$
- Uchta vagondan 40000 kg karam tushirildi. Birinchi vagondan 12748 kg, ikkinchisidan birinchisiga qaraganda 1980 kg ortiq karam tushirildi. Uchinchi vagondan necha kilogramm karam tushirildi?
- Do'konda birinchi kun 1868 kg oq va 1097 kg javdar uni sotildi. Ikkinchi kuni 1953 kg oq va 1746 kg javdar uni sotildi. Ikkinchi kuni birinchi kunga qaraganda necha kilogramm ko'p un sotildi?
- Misollarni yeching:
 $100000 - 71048 + 2563$
 $80401 - (50632 + 9875)$
- Bir sonning ikkinchi sondan nechtaga kattaligini yoki nechtaga kichikligini aniqlang:
 50038 va 17824 25630 va 1870
 1196 va 32000 78 va 1000



SONLARNI 10, 100, 1000 ga KO'PAYTIRISH VA BO'LISH



Eslang! Sonlarni 10, 100, 1000 ga ko'paytirganda...

68. Misollarni yeching:

$3 \cdot 10$	$7 \cdot 100$	$4 \cdot 1000$	$10 \cdot 8$	$100 \cdot 4$
$12 \cdot 10$	$23 \cdot 100$	$25 \cdot 1000$	$10 \cdot 16$	$100 \cdot 27$
$215 \cdot 10$	$10 \cdot 100$	$10 \cdot 1000$	$10 \cdot 10$	$100 \cdot 100$

69. 1) Sonlarni 10 ga, 100 ga, 1000 ga ko'paytirilganda o'zgarishni tushuntiring:

$2413 \cdot 10 = 24130$	$37 \cdot 1000 = 37000$
$805 \cdot 100 = 80500$	$120 \cdot 100 = 12000$

2) Misollarni yeching:

$6342 \cdot 10$	$126 \cdot 100$	$7 \cdot 1000$	$1000 \cdot 100$	$10 \cdot 3250$
$5400 \cdot 10$	$500 \cdot 100$	$12 \cdot 1000$	$1000 \cdot 11$	$8603 \cdot 0$
$10 \cdot 243$	$100 \cdot 384$	$30 \cdot 1000$	$8000 \cdot 1$	$501 \cdot 100$

Hosil bo'lgan sonlarni o'qing. Sonlar necha marta ortganini ayting.

70. Har bir sonning o'ng tomoniga bitta nol yozganda u necha marta ortadi? Ikkita nol yozganda-chi? Uchta nol yozganda-chi?

Ko'paytiring:

10 marta	126	50	2185	8200	500	4301	3
100 marta	7	36	307	170	400	111	10
1000 marta	15	9	20	72	100	11	0

71. Sayohatchilar O'zbekistonning qadimiy shaharlarini tomosha qilishda avtobusda 86 km, poyezdda avtobusdagiga qaraganda 10 marta ko'p, samolyotda esa avtobusdagiga qaraganda 100 marta ko'proq yo'lni bosib o'tishdi. Sayohatchilar sayohatlari davomida qancha yo'lni bosib o'tishdi?

72. Har bir ustundagi amallarni taqqoslang. Natijalardagi farqni tushuntiring:

$$35 \cdot 10$$

$$10 \cdot 8$$

$$100 \cdot 50$$

$$100 \cdot 10$$

$$35 \cdot 100$$

$$10 \cdot 18$$

$$100 \cdot 500$$

$$100 \cdot 100$$

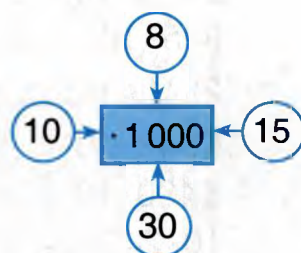
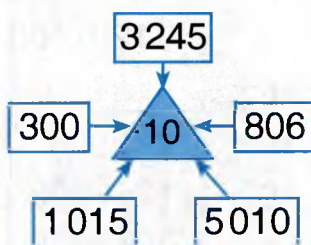
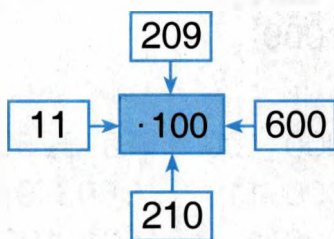
$$35 \cdot 1000$$

$$10 \cdot 180$$

$$100 \cdot 5$$

$$100 \cdot 1000$$

73. Misollar tuzib yeching:



74. Namunalardagi natijalar nimani bildiradi?

$$52\,160 : 10 = 5\,216$$

$$90\,000 : 1\,000 = 90$$

$$30\,700 : 100 = 307$$

$$25\,000 : 100 = 250$$

$$68\,000 : 1\,000 = 68$$

$$41\,600 : 10 = 4\,160$$



Eslang!

Sonni 10 ga, 100 ga, 1000 ga bo'lish uchun...

75. Misollarni yeching:

380:10	8500:100	50000:1000
2540:10	20600:100	12000:1000
60800:10	12000:100	100000:1000
91000:10	900:100	7000:1000

Har bir ustun natijalarining yig'indisini toping.

76. Sonning oxiridagi 2 ta nol o'chirilsa, bu son necha marta qisqaradi? 1 ta nol o'chirilsa-chi? 3 ta nol o'chirilsa-chi?

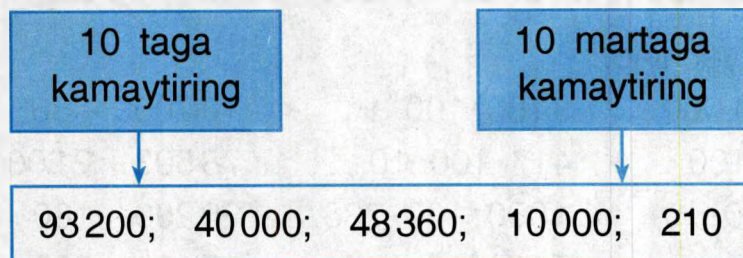
Kamaytiring:

10 marta	620	1240	25060	5000	100000
100 marta	700	1200	70300	31000	100000
1000 marta	8000	10000	90000	3000	100000

77. Bo'linmani toping:

70:10	800:100	3000:1000	20100:10
680:10	9300:100	17000:1000	16030:10
140:10	12400:100	40000:1000	10300:100
3420:10	60000:100	1000:1000	100:100

78. Misollar tuzib yeching:



79. Chilangarlar brigadasi 10 kunda 18000 ta detal tayyorladi. Brigada 1 kunda nechta detal tayyorlagan?
80. 10 ta sirk chiptasiga 20000 so'm to'landi, 10 ta konsert chiptasiga esa 8000 so'm to'landi. Sirk chiptasining narxi konsert chiptasining narxidan necha so'mga qimmat?

81. Misollar tuzib yeching:

Bahosi	Miqdori	Narxi
200 so'm	10 dona	?
?	100 dona	8000 so'm
1000 so'm	?	5000 so'm

82. Misollarni yeching:

$$70000 : 10 = 363$$

$$26 \cdot 1000 = 125 \cdot 10$$

$$18400 : 10 + 25960$$

$$81 \cdot 100 : 10 + 3679$$

83. Misollar tuzib yeching:

100 taga kamaytiring	36100	70000	50030	8000	17000
100 martaga kamaytiring	72600	83000	7100	900	100000

84. Maktab-internatga har birida 100 tadan 10 ta bog'lam daftar va har birida 10 tadan 5 ta bog'lam umumiy daftar olib kelinib, 10 ta sinfga teng bo'lib berildi. Har bir sinfga nechtadan daftar va umumiy daftar berilgan?

85. Misollarni yeching:

$$2600 \cdot 10 : 1000$$

$$3100 : 100 \cdot 1$$

$$100000 - 363 \cdot 100$$

$$1000 \cdot 45 : 100$$

$$417 \cdot 100 : 10$$

$$78503 + 21000 : 10$$

$$5000 : 1000 \cdot 10$$

$$1000 : 100 \cdot 736$$

$$20200 - 100 \cdot 45$$

$$10 \cdot 645 \cdot 0$$

$$5090 : 10 : 1$$

$$15401 + 200 \cdot 0$$

10, 100, 1000 ga QOLDIQLI BO'LISH

86. Sonlarni o'qing:

2340; 80000; 12643; 36700; 97506; 100000; 83000;
21007.

- 1) Yuqoridagi sonlar ichidan 10 ga bo'linuvchi sonlarni bir ustunga yozib, ularning umumiy tomonlarini ayting. Bu sonlarni 10 marta kamaytiring. Yozilmagan sonlarni o'qing va ular orasidagi farqni ayting.
- 2) Ikkinchi ustunga xuddi shu sonlar ichidan 100 ga bo'linuvchi sonlarni yozing va ularning umumiy tomonlarini ayting. Bu sonlarni 100 marta kamaytiring. Yozilmagan sonlarni o'qing va ikkinchi ustundagi sonlar nimasi bilan farq qilishini ayting.
- 3) Uchinchi ustunga xuddi shu sonlar ichidan 1000 ga bo'linuvchi sonlarni yozib, ularning umumiy tomonlarini ayting. Bu sonlarni 1000 marta kamaytiring. Yozilmagan sonlarni o'qing va uchinchi ustundagi sonlardan nimasi bilan farq qilishini ayting.

87. 10 ga, 100 ga, 1000 ga qoldiqli bo'lishni ko'rib chiqing:

$$12643:10 = 1264 \text{ (qoldiq } 3\text{)}$$

$$12643:100 = 126 \text{ (qoldiq } 43\text{)}$$

$$12643:1000 = 12 \text{ (qoldiq } 643\text{)}$$



Sonlarni 10, 100, 1000 ga qoldiqli bo'lishda sonning oxiridagi 1 ta, 2 ta yoki 3 ta raqam qoldiq bo'ladi.

88. Qoldiqli bo'lishni bajaring:

a) 13647:10	38415:100	37542:1000
20035:10	18040:100	80073:1000
80004:10	20013:100	61008:1000
35067:10	61254:100	50030:1000

b) 17389:100	40506:10	71004:1000
17389:1000	40506:1000	71004:10
17389:10	40506:100	71004:100

89. 203 ta qalam har bir qutiga 10 donadan qilib taxlandi. Qalamlarni taxlash uchun nechta quti kerak bo'ldi? Nechta qalam ortib qoldi?

90. Agar bitta chizg'ichning bahosi 100 so'm bo'lsa, 850 so'mga nechta chizg'ich sotib olsa bo'ladi? Necha so'm ortib qoladi.

91. Ko'rpa-to'shak g'iloflarini tikish uchun 10 m gazlama ketadi. 125 m gazlamadan shunday g'iloflardan nechtasini tikish mumkin? Necha metr gazlama ortib qoladi?

92. Qoldiqli bo'lishni bajaring:

60301:100	5432:100	80903:10
32008:1000	8036:1000	71084:100
74543:10	21043:100	25017:1000
84367:1000	50167:10	70843:1000



O'LCHOV BIRLIKLARINI O'LCHASHDA HOSIL BO'LGAN SONLARDA IFODALASH

93. 1) O'lchov birliklaridagi sonlarni yozing:

20 so'm; 6 sr;

2) Bitta o'lchov birligidagi sonlarni yozing:

32 m; 60 kg;

3) Ikki o'lchov birligidagi sonlarni yozing:

1 km 500 m;

94. O'zingiz bilgan o'lchov birliklaridan foydalanib, tengliklarni to'ldiring:

$$1 \text{ sm} = 10 \text{ mm}$$

$$1 \text{ m} = 100 \dots$$

$$1 \text{ km} = 1000 \dots$$

$$1 \text{ m} = 10 \dots$$

$$1 \text{ sr} = 100 \dots$$

$$1 \text{ kg} = 1000 \dots$$

$$1 \text{ dm} = 10 \dots$$

$$1 \text{ so'm} = 100 \dots$$

$$1 \text{ t} = 1000 \dots$$

95. 1) Sonlarni mayda o'lchov birliklarida ifodalash uchun qaysi amalni bajarish kerak?

2) 1 metr 1 detsimetrdan necha marta uzun?

1 metr 1 santimetrdan necha marta uzun?

1 metr 1 millimetrdan necha marta uzun?

$$3 \text{ m} = 30 \text{ dm}$$

$$1 \text{ m} = 10 \text{ dm}$$

$$10 \text{ dm} \cdot 3 = 30 \text{ dm}$$

$$3 \text{ m} = 300 \text{ sm}$$

$$1 \text{ m} = 100 \text{ sm}$$

$$100 \text{ sm} \cdot 3 = 300 \text{ sm}$$

$$3 \text{ m} = 3000 \text{ mm}$$

$$1 \text{ m} = 1000 \text{ mm}$$

$$1000 \text{ mm} \cdot 3 = 3000 \text{ mm}$$



Eslang! Hosil bo'lgan sonni maydaroq o'lchov birligida ifodalash uchun... .

3) Maydaroq o'lchov birliklarda ifodalang:

a) mm da:	sm da:	dm da:	m da:
1 sm	1 dm	1 m	1 km
5 sm	7 dm	8 m	4 km
28 sm	19 dm	12 m	39 km
643 sm	264 dm	60 m	23 km
b) sr da:	kg da:	kg da:	g da:
1 t	1 sr	1 t	1 kg
5 t	8 sr	9 t	7 kg
17 t	25 sr	30 t	13 kg
130 t	143 sr	13 t	70 kg

96. Ikkita o'lchov birligida ifodalangan sonni maydaroq o'lchov birligida ifodalash uchun avval qanday amalni, keyin qanday amalni bajarish kerakligini tushuntiring:

$5 \text{ kg } 27 \text{ g} = 5027 \text{ g}$ $1 \text{ kg} = 1000 \text{ g}$ $5 \cdot 1000 = 5000$ $5000 \text{ g} + 27 \text{ g} = 5027 \text{ g}$

$6 \text{ m } 8 \text{ sm} =$	$3 \text{ t } 2 \text{ sr} =$
$1 \text{ m} = \dots \text{ sm}$	$1 \text{ t} = \dots \text{ sr}$

97. Maydaroq o'lchov birliklarida ifodalang:

a) $8 \text{ m } 60 \text{ sm} = \dots \text{ sm}$	$18 \text{ km } 4 \text{ m} = \dots \text{ m}$
$9 \text{ m } 5 \text{ sm} = \dots \text{ sm}$	$20 \text{ km } 70 \text{ m} = \dots \text{ m}$
$7 \text{ sr } 38 \text{ kg} = \dots \text{ kg}$	$7 \text{ sm } 3 \text{ mm} = \dots \text{ mm}$
$12 \text{ sr } 9 \text{ kg} = \dots \text{ kg}$	$9 \text{ dm } 5 \text{ sm} = \dots \text{ sm}$
$5 \text{ km } 126 \text{ m} = \dots \text{ m}$	$12 \text{ t } 6 \text{ sr} = \dots \text{ sr}$

$$b) 4 \text{ t } 186 \text{ kg} = \dots \text{ kg}$$

$$6 \text{ kg } 2 \text{ g} = \dots \text{ g}$$

$$17 \text{ kg } 56 \text{ g} = \dots \text{ g}$$

$$8 \text{ km } 60 \text{ m} = \dots \text{ m}$$

$$9 \text{ sr } 72 \text{ kg} = \dots \text{ kg}$$

$$12 \text{ m } 8 \text{ sm} = \dots \text{ sm}$$

$$6 \text{ sr } 9 \text{ kg} = \dots \text{ kg}$$

$$20 \text{ m } 3 \text{ sm} = \dots \text{ sm}$$

98. Nuqtalar o'rniga o'zingizga ma'lum bo'lgan o'lchov birliklarini shunday qo'ying-ki, tenglik to'g'ri bo'lsin:

$$1000 \dots = 1 \dots \quad 100 \dots = 1 \dots \quad 10 \dots = 1 \dots$$

99. Sonlarni yirikroq o'lchov birligida ifodalash uchun nimalarni bilish kerak?

$$30000 \text{ g} = 30 \text{ kg}$$
$$30000 : 1000 = 30 \text{ kg}$$

$$260 \text{ sm} = 2 \text{ m } 60 \text{ sm}$$
$$260 : 100 = 2(60) \text{ qoldiq}$$

$$36 \text{ mm} = 3 \text{ sm } 6 \text{ mm}$$

$$36 : 10 = 3 (6) \text{ qoldiq}$$

Har bir sonning oxirida nechta raqam tushirib qoldirilgan?



Eslang!

Sonlarni yirikroq o'lchov birligida ifodalash uchun ...

100. Kattaroq o'lchov birligida ifodalang:

$$a) 800 \text{ kg} = \dots \text{ sr}$$

$$2300 \text{ kg} = \dots \text{ sr}$$

$$31400 \text{ sm} = \dots \text{ m}$$

$$8000 \text{ m} = \dots \text{ km}$$

$$3000 \text{ g} = \dots \text{ kg}$$

$$60000 \text{ kg} = \dots \text{ t}$$

$$30 \text{ sr} = \dots \text{ t}$$

$$150 \text{ mm} = \dots \text{ sm}$$

$$60 \text{ sm} = \dots \text{ dm}$$

$$2400 \text{ sr} = \dots \text{ t}$$

$$b) 415 \text{ sm} = \dots \text{ m } \dots \text{ sm}$$

$$8632 \text{ kg} = \dots \text{ sr} \dots \text{ kg}$$

$$3527 \text{ kg} = \dots \text{ t } \dots \text{ kg}$$

$$8063 \text{ mm} = \dots \text{ m } \dots \text{ mm}$$

$$5130 \text{ sm} = \dots \text{ m} \dots \text{ sm} \quad | \quad 12148 \text{ g} = \dots \text{ kg} \dots \text{ g}$$

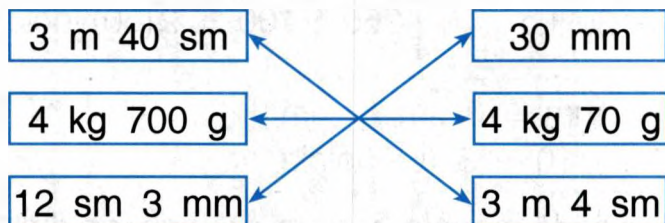
$$72685 \text{ m} = \dots \text{ km} \dots \text{ m} \quad | \quad 168 \text{ mm} = \dots \text{ sm} \dots \text{ mm}$$

101. Sonlarni taqqoslang va $>$, $<$ yoki $=$ belgilaridan mosini qo'ying:

$$\begin{array}{l|l|l} \text{a) } 3 \text{ sm} \dots 30 \text{ mm} & 3 \text{ t} \dots 3 \text{ sr} & 4 \text{ kg} \dots 500 \text{ g} \\ 7 \text{ m} \dots 60 \text{ sm} & 4 \text{ m} \dots 1000 \text{ mm} & 2 \text{ km} \dots 2000 \text{ m} \end{array}$$

$$\begin{array}{l|l} \text{b) } 2 \text{ t } 50 \text{ kg} \dots 2 \text{ t } 500 \text{ kg} & 6 \text{ m } 15 \text{ sm} \dots 7 \text{ m} \\ 1 \text{ sm } 2 \text{ mm} \dots 12 \text{ mm} & 5 \text{ kg } 120 \text{ g} \dots 5120 \text{ g} \end{array}$$

102. Quyidagi juftliklarni ko'chirib oling va ularni taqqoslab $>$, $<$ yoki $=$ belgilaridan mosini qo'ying:



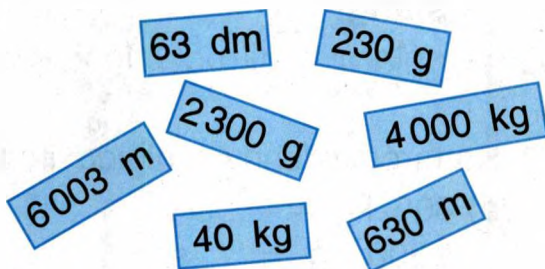
103. Berilgan o'lchov birliklariga mos juftliklarni topib yozing:

$$4 \text{ t} = \dots$$

$$2 \text{ kg } 300 \text{ g} = \dots$$

$$6 \text{ m } 3 \text{ dm} = \dots$$

$$6 \text{ km } 3 \text{ m} = \dots$$



104. Nuqtalar o'rniga mos sonlarni qo'ying:

$$2 \text{ kg} = \dots \text{ g}$$

$$7 \text{ km} = \dots \text{ m}$$

$$8 \text{ m} = \dots \text{ sm}$$

$$6 \text{ m } 3 \text{ sm} = \dots \text{ sm}$$

$$35000 \text{ m} = \dots \text{ km}$$

$$61000 \text{ g} = \dots \text{ kg}$$

$$2300 \text{ sm} = \dots \text{ m}$$

$$4 \text{ kg } 20 \text{ g} = \dots \text{ g}$$

105. 1) Yangi tug'ilgan kenguru bolasi-ning og'irligi 3 g. Bir yilning ichida uning og'irligi 1000 marta oshadi. Bir yildan keyin kenguru bolasi-ning og'irligi qancha bo'ladi?



2) Yangi tug'ilgan kenguru bolasi-ning bo'yi 1 sm. Bir yilning ichida uning bo'yi 100 marta o'sadi. Bir yildan keyin kenguru bolasi-ning bo'yi qancha bo'ladi? Javoblarni kattaroq o'lchov birliklarida ifodalang.

- 106.**
- Tinch okeanning eng chuqur joyi 11022 m.
 - Dunyodagi eng chuqur ko'l Baykal ko'lidir. Uning chuqurligi 1620 m.
 - Orol dengizining chuqurligi – 5400 sm.
- Sonlarini kattaroq o'lchov birliklarida ifodalang.

107. O'lchang va natijalarni daftarga yozing.

O'lchanadigan joy, jihoz	metrda	santimetrda	millimetrda
sinfning uzunligi			
shkafning balandligi			
kitobning eni			

O'lchashda qanday o'lchash asboblardan foydalandingiz?

108. Misollarni yeching:







$$16 \cdot 100 - 284 \cdot 1$$

$$70640 - 20700 : 100 \cdot 10$$

$$(6547 + 29480) - 43000 : 1000 \cdot 100$$

$$80010 - 25607 + 6103 \cdot 1$$

109. Bu sonlarni kattaroq o'lchov birliklarida ifodalang:

	Bo'yi		Bo'yi
 delfin	3 m 60 sm	 ko'k kit	33 m
 tipratikan	440 mm	 yo'lbars	300 sm
 akula	200 dm	 echkiemar	370 sm

Jadvaldagi jonivorlarning bo'yini o'sib borish tartibida yozing.

110. 1) Santimetrlarda ifodalang: 2 m 50 sm; 2 m 5 sm; 1 m 65 sm; 6 m 3 sm.

2) Metrlarda ifodalang: 1 km 600 m; 1 km 60 m; 4 km 300 m; 3 km 50 m.

3) Kilometr va metrlarda ifodalang: 2800 m; 6005 m; 25400 m; 1010 m.

111. Taqqoslang: 6130 m va 6 km 130 m.

Birinchi son ... (nechta?) o'lchov birliklarida olingan.

Ikkinchi son ... (nechta?) o'lchov birliklarida olingan.

6 km 130 m=6130 m tenglik to'g'rimi? Nima uchun?



O'LCHOV BIRLIKLARINI QO'SHISH VA AYIRISH

112. Qo'shish va ayirishni bajaring. Ayirishni katta o'lchov birligidan boshlang:

- a) $25\text{ m } 15\text{ sm} + 35\text{ m } 45\text{ sm}$
 $18\text{ sm } 6\text{ mm} + 50\text{ sm } 3\text{ mm}$
 $30\text{ dm } 4\text{ sm} - 29\text{ dm } 2\text{ sm}$
 $67\text{ sr } 15\text{ kg} - 24\text{ sr } 12\text{ kg}$
 $5\text{ kg } 300\text{ g} + 8\text{ kg } 600\text{ g}$
 $21\text{ km } 140\text{ m} - 11\text{ km } 120\text{ m}$
 $30\text{ t } 425\text{ kg} + 16\text{ t } 200\text{ kg}$
 $87\text{ m } 356\text{ mm} - 35\text{ m } 56\text{ mm}$

- b) $53\text{ sm } 7\text{ mm} + 54\text{ sm}$
 $9\text{ sr } 18\text{ kg} - 9\text{ kg}$
 $80\text{ m } 36\text{ sm} + 20\text{ sm}$
 $16\text{ t } 9\text{ sr} - 6\text{ sr}$

- $7\text{ km } 320\text{ m} + 30\text{ km}$
 $62\text{ kg } 524\text{ g} - 22\text{ kg}$
 $5\text{ t } 470\text{ kg} + 12\text{ t}$
 $40\text{ m } 453\text{ mm} - 8\text{ m}$

113. O'lchov birliklarida hosil bo'lgan sonlarni qo'shish usullarini ko'rib chiqing:

$$27\text{ m } 46\text{ sm} + 32\text{ m } 74\text{ sm} = 60\text{ m } 20\text{ sm}$$

$$\begin{array}{r} 1) \quad 27\text{ m } 46\text{ sm} \\ + \quad 32\text{ m } 74\text{ sm} \\ \hline 59\text{ m } 120\text{ sm} \\ \hline 60\text{ m } 20\text{ sm} \end{array}$$

$$\begin{array}{r} 2) \quad + 2746\text{ sm} \\ \quad 3274\text{ sm} \\ \hline \quad 6020\text{ sm} \\ \hline \quad 60\text{ m } 20\text{ sm} \end{array}$$

Bu amallar boshqasidan nima bilan farq qiladi?

114. Qo'shishni bajaring:

$$13 \text{ m } 64 \text{ sm} + 38 \text{ m } 19 \text{ sm}$$

$$8 \text{ sr } 36 \text{ kg} + 14 \text{ sr } 64 \text{ kg}$$

$$30 \text{ m } 49 \text{ sm} + 45 \text{ sm}$$

$$26 \text{ sr } 42 \text{ kg} + 9 \text{ sr } 78 \text{ kg}$$

$$36 \text{ m } 45 \text{ sm} + 19 \text{ m } 63 \text{ sm}$$

$$27 \text{ m } 38 \text{ sm} + 64 \text{ m } 82 \text{ sm}$$

$$45 \text{ sr } 9 \text{ kg} + 36 \text{ sr } 48 \text{ kg}$$

$$17 \text{ m } 34 \text{ sm} + 18 \text{ m } 66 \text{ sm}$$

115. 1) Namunalarga qarab, amallarning yechilishini tushuntiring:

$\begin{array}{r} + 2 \text{ kg } 345 \text{ g} \\ 6 \text{ kg } 217 \text{ g} \\ \hline 8 \text{ kg } 562 \text{ g} \end{array}$

$\begin{array}{r} + 17 \text{ km } 457 \text{ m} \\ 24 \text{ km } 543 \text{ m} \\ \hline 41 \text{ km } 1000 \text{ m} \\ \hline 42 \text{ km} \end{array}$

$\begin{array}{r} + 8 \text{ t } 630 \text{ kg} \\ 7 \text{ t } 498 \text{ kg} \\ \hline 15 \text{ t } 1128 \text{ kg} \\ \hline 16 \text{ t } 128 \text{ kg} \end{array}$

Misollardagi yirikroq va maydaroq o'lchov birliklarining nisbati qanday?

2) Amallarni yozma bajaring:

$$1 \text{ km } 608 \text{ m} + 9 \text{ km } 352 \text{ m}$$

$$27 \text{ m } 163 \text{ mm} + 7 \text{ m } 837 \text{ mm}$$

$$43 \text{ t } 527 \text{ kg} + 687 \text{ kg}$$

$$17 \text{ kg } 836 \text{ g} + 49 \text{ kg } 15 \text{ g}$$

$$84 \text{ km } 167 \text{ m} + 5 \text{ km } 833 \text{ m}$$

$$9 \text{ t } 672 \text{ kg} + 18 \text{ t } 408 \text{ kg}$$

116. Ikki brigada shoh ko'chani asfaltladi. Birinchi brigada 5 km 60 m, ikkinchi brigada esa birinchisidan 2 km 280 m ortiq yo'lni asfaltladi. Ikki brigada qancha yo'lni asfaltladi?

117. 1) Namunalarga qarab ularning yechilishini tushuntiring:

$$\begin{array}{r} 16 \text{ sm } 3 \text{ mm} \\ + 24 \text{ sm } 5 \text{ mm} \\ \hline 40 \text{ sm } 8 \text{ mm} \end{array}$$

$$\begin{array}{r} 23 \text{ t } 4 \text{ sr} \\ + 18 \text{ t } 6 \text{ sr} \\ \hline 41 \text{ t } 10 \text{ sr} \\ \hline 42 \text{ t} \end{array}$$

$$\begin{array}{r} 9 \text{ dm } 6 \text{ sm} \\ + 3 \text{ dm } 8 \text{ sm} \\ \hline 12 \text{ dm } 14 \text{ sm} \\ \hline 13 \text{ dm } 4 \text{ sm} \end{array}$$

Misollardagi yirikroq va maydaroq o'lchov birliklarining nisbati qanday?

2) Qo'shishni ustun shaklida bajaring:

$$16 \text{ t } 8 \text{ sr} + 27 \text{ t } 5 \text{ sr}$$

$$36 \text{ sm } 4 \text{ mm} + 48 \text{ sm } 3 \text{ mm}$$

$$72 \text{ dm } 6 \text{ sm} + 8 \text{ dm } 4 \text{ sm}$$

$$18 \text{ dm } 5 \text{ sm} + 7 \text{ dm}$$

$$78 \text{ m } 5 \text{ dm} + 13 \text{ m } 9 \text{ dm}$$

$$53 \text{ sm } 7 \text{ mm} + 38 \text{ sm } 6 \text{ mm}$$

$$32 \text{ t } 6 \text{ sr} + 9 \text{ sr}$$

$$15 \text{ m } 8 \text{ dm} + 3 \text{ m } 9 \text{ dm}$$

118. Ayirishni bajaring. Har bir ustundagi kattaroq va kichikroq o'lchov birliklarining nisbatini eslang:

$$1 \text{ sm} - 3 \text{ mm}$$

$$1 \text{ t} - 4 \text{ sr}$$

$$1 \text{ sr} - 9 \text{ kg}$$

$$1 \text{ m} - 20 \text{ sm}$$

$$1 \text{ dm} - 7 \text{ sm}$$

$$1 \text{ kg} - 160 \text{ g}$$

$$1 \text{ t} - 360 \text{ kg}$$

$$1 \text{ m} - 8 \text{ mm}$$

$$1 \text{ km} - 970 \text{ m}$$

119. Sonlarni taqqoslang va $>$, $<$, $=$ belgilaridan mosini qo'ying:

$$3 \text{ sr} \dots 3 \text{ kg}$$

$$18 \text{ sm} \dots 1 \text{ m } 8 \text{ sm}$$

$$1 \text{ kg} \dots 728 \text{ g}$$

$$3 \text{ kg } 620 \text{ g} \dots 2 \text{ sr}$$

$$62 \text{ km } 5 \text{ m} \dots 625 \text{ m}$$

$$5 \text{ m} \dots 5000 \text{ mm}$$

$$1 \text{ t } 2 \text{ sr} \dots 12 \text{ sr}$$

$$308 \text{ sm} \dots 3 \text{ m } 80 \text{ sm}$$

$$620 \text{ kg} \dots 6 \text{ t } 20 \text{ kg}$$

120. Namunalarga qarab, amallarning yechilishini tushuntiring.

$$15 \text{ t} - 8 \text{ t } 6 \text{ sr} = 6 \text{ t } 4 \text{ sr}$$

$$\begin{array}{r} 1) \quad \cdot \quad 10 \\ 15 \text{ t } 0 \text{ sr} \\ - \quad 8 \text{ t } 6 \text{ sr} \\ \hline 6 \text{ t } 4 \text{ sr} \end{array}$$

$$\begin{array}{r} 2) \quad \cdot \\ 150 \text{ sr} \\ - \quad 86 \text{ sr} \\ \hline 64 \text{ sr} \\ \hline 6 \text{ t } 4 \text{ sr} \end{array}$$

$$25 \text{ sm } 4 \text{ mm} - 18 \text{ sm } 7 \text{ mm} = 6 \text{ sm } 7 \text{ mm}$$

$$\begin{array}{r} 1) \quad \cdot \quad 14 \\ 25 \text{ sm } 4 \text{ mm} \\ - \quad 18 \text{ sm } 7 \text{ mm} \\ \hline 6 \text{ sm } 7 \text{ mm} \end{array}$$

$$\begin{array}{r} 2) \quad \cdot \\ 254 \text{ mm} \\ - \quad 187 \text{ mm} \\ \hline 67 \text{ mm} \\ \hline 6 \text{ sm } 7 \text{ mm} \end{array}$$

121. Misollarni yeching. Yirikroq va maydaroq o'lchov birliklari orasidagi nisbatni aniqlang:

$$78 \text{ dm} - 9 \text{ dm } 26 \text{ sm}$$

$$52 \text{ dm } 16 \text{ sm} - 8 \text{ dm } 7 \text{ sm}$$

$$19 \text{ dm } 2 \text{ sm} - 6 \text{ sm}$$

$$52 \text{ t } 3 \text{ sr} - 25 \text{ t } 6 \text{ sr}$$

$$17 \text{ t } 8 \text{ sr} - 9 \text{ t } 5 \text{ sr}$$

$$30 \text{ t } 7 \text{ sr} - 6 \text{ t } 9 \text{ sr}$$

$$17 \text{ sm} - 8 \text{ mm}$$

$$36 \text{ sm } 9 \text{ mm} - 18 \text{ sm}$$

122. Namunalarga qarab, amallarning yechilishini tushuntiring:

$$63 \text{ sr} - 28 \text{ kg} = 62 \text{ sr } 72 \text{ kg} \quad 63 \text{ sr } 15 \text{ kg} - 28 \text{ kg} = 62 \text{ sr } 87 \text{ kg}$$

$$\begin{array}{r} \cdot \quad 100 \\ 63 \text{ sr } 00 \text{ kg} \\ - \quad 28 \text{ kg} \\ \hline 62 \text{ sr } 72 \text{ kg} \end{array}$$

$$\begin{array}{r} \cdot \quad 115 \\ 63 \text{ sr } 15 \text{ kg} \\ - \quad 28 \text{ kg} \\ \hline 62 \text{ sr } 87 \text{ kg} \end{array}$$

123. Ayirmani toping:

$$25 \text{ m } 67 \text{ sm} - 18 \text{ m } 25 \text{ sm}$$

$$34 \text{ m} - 32 \text{ sm}$$

$$40 \text{ sr } 5 \text{ kg} - 28 \text{ sr } 6 \text{ kg}$$

$$32 \text{ sr } 17 \text{ kg} - 38 \text{ kg}$$

$$\begin{array}{l|l} 16 \text{ m } 8 \text{ sm} - 9 \text{ m } 63 \text{ sm} & 94 \text{ sr } 43 \text{ kg} - 63 \text{ sr } 78 \text{ kg} \\ 84 \text{ m} - 37 \text{ m } 46 \text{ sm} & 73 \text{ sr} - 72 \text{ kg} \end{array}$$

124. Tikuvchilik sexida qizlar fartuk va pardalar tikish uchun gazlamadan 10 m kesib olishdi. Fartuklarni tikishga 2 m 60 sm gazlama ketdi. Pardalarni tikishga necha metr gazlama ketdi?

125. 3 m yog'och taxtadan 1 m 40 sm arralab olindi. Qolgan bo'lagidan yana 85 sm arralab olindi. Yog'och taxtaning qolgan bo'lagining uzunligi qancha?

126. Ayirmani hisoblang:

$$\begin{array}{l|l} 16 \text{ m} - 13 \text{ sm} & 19 \text{ sr } 8 \text{ kg} - 6 \text{ sr } 9 \text{ kg} \\ 80 \text{ sr} - 36 \text{ kg} & 36 \text{ m } 72 \text{ sm} - 35 \text{ m } 90 \text{ sm} \\ 15 \text{ sr} - 9 \text{ sr } 30 \text{ kg} & 72 \text{ m } 50 \text{ sm} - 7 \text{ m } 23 \text{ sm} \\ 63 \text{ m } 14 \text{ sm} - 59 \text{ m } 7 \text{ sm} & 60 \text{ sr } 38 \text{ kg} - 53 \text{ kg} \end{array}$$

127. Namunalarga qarab, misollarning yechilishini tushuntiring:

$$21 \text{ kg} - 16 \text{ kg } 320 \text{ g} = 4 \text{ kg } 680 \text{ g}$$

$$\begin{array}{r} 1) \quad \begin{array}{r} \overset{1000}{\cdot} \\ 21 \text{ kg } 000 \text{ g} \\ - 16 \text{ kg } 320 \text{ g} \\ \hline 4 \text{ kg } 680 \text{ g} \end{array} \end{array}$$

$$\begin{array}{r} 2) \quad \begin{array}{r} \overset{1000}{\cdot} \\ 21 \text{ 000 g} \\ - 16320 \text{ g} \\ \hline 4680 \text{ g} \\ \hline 4 \text{ kg } 680 \text{ g} \end{array} \end{array}$$

$$8 \text{ t } 15 \text{ kg} - 3 \text{ t } 340 \text{ kg} = 4 \text{ t } 675 \text{ kg}$$

$$\begin{array}{r} 1) \quad \begin{array}{r} \overset{1015}{\cdot} \\ 8 \text{ t } 015 \text{ kg} \\ - 3 \text{ t } 340 \text{ kg} \\ \hline 4 \text{ t } 675 \text{ kg} \end{array} \end{array}$$

$$\begin{array}{r} 2) \quad \begin{array}{r} \overset{1000}{\cdot} \\ 8015 \text{ kg} \\ - 3340 \text{ kg} \\ \hline 4675 \text{ kg} \\ \hline 4 \text{ t } 675 \text{ kg} \end{array} \end{array}$$

128. Ayirmani toping:

- | | | |
|----|---------------------------|---------------------------|
| a) | 72 km – 36 m | 16 t 500 kg – 348 kg |
| | 86 km 340 m – 24 km 235 m | 49 t 200 kg – 35 t 600 kg |
| | 56 km 130 m – 843 m | 87 t – 75 kg |
| b) | 12 m 160 mm – 3 m 97 mm | 70 kg 824 g – 59 kg 637 g |
| | 5 m 3 mm – 103 mm | 150 kg – 149 g |
| | 16 m 27 mm – 6 m 830 mm | 78 kg 20 g – 63 kg 340 g |

129. 1) Savolni davom ettiring va masalani yeching:

Bir daladan 9 t, ikkinchi daladan birinchi daladagiga qaraganda 1 t 320 kg kam kartoshka yig'ib olindi. Hammasi ...

2) Bir daladan 9 t, ikkinchi daladan birinchi daladagidan 1 t 320 kg kamroq kartoshka yig'ib olindi. Ikkala daladan hammasi bo'lib 12 t 835 kg kartoshka olib ketildi. Yana qancha kartoshka olib ketilishi kerak?

130. 1977-yilda Toshkent metropolitenining uzunligi 12 km 200 m bo'lgan birinchi yo'nalishi ishga tushdi. 1980-yili ushbu yo'nalishning uzunligi 4600 m ga ko'paydi. Toshkent metropoliteni birinchi yo'nalishining uzunligi qancha?

131. Omborxonada 9 sr un bor edi. 5 sr 60 kg un qog'oz xaltachalarga, 2 sr 50 kg esa sellofan xaltachalarga qadoqlandi. Yana qadoqlash uchun qancha un qoldi?

132. Oshxonaga 240 kg yorma keltirildi. Grechka yormasi 95 kg 600 g, perlovka yormasi grechkaga qaraganda 37 kg 950g kam, qolgani esa manniy yormasi edi. Oshxonaga qancha manniy yormasi keltirilgan?

133. Toshkent metropoliteni ikkita yo'nalishining umumiy uzunligi 31 km. Chilonzor yo'nalishining uzunligi 16 km 800 m. O'zbekiston yo'nalishining uzunligi qancha?

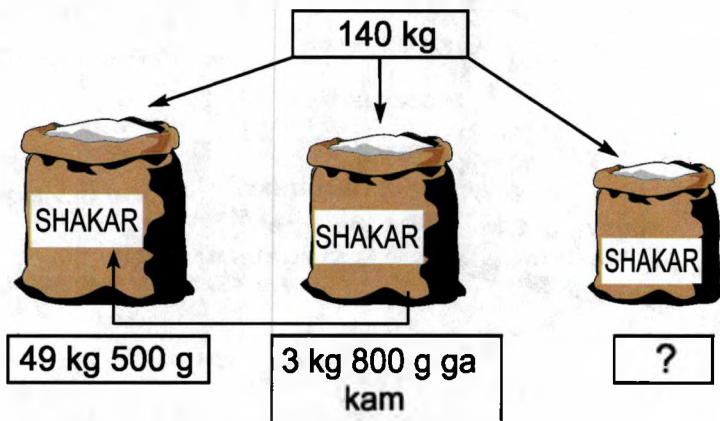


134. Misollar tuzib, yeching:

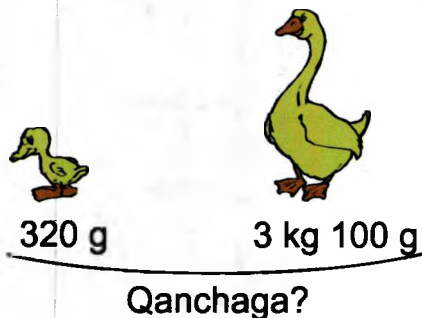
	Balandligi	Og'irligi
Hind fili	2 m 30 sm ga past	4 t
Afrika fili	4 m	3500 kg ga og'ir
Jirafa	1 m 80 sm ga baland	3 t 250 kg ga yengil

135. Masala tuzing va uni yeching:

1)



2)



136. Berilgan sonlar asosida qo'shish va ayirishga doir misollar tuzing va ularni yeching:

- a) 16 m 13 sm; 93 sm; 25 m 87 sm; 18 sm 5 mm;
9 mm; 4 m;

b) 5 t 600 kg; 783 kg; 17 t; 8 sr; 16 sr 32 kg; 78 kg.

137. Berilgan sonlarning yig'indisi va ayirmasini toping:

	47 sm 3 mm	5 t 6 sr	13 t 823 kg	60 km 47 m	30 kg
	32 sm 7 mm	7 sr	256 kg	27 km 53 m	30 g
Yig'indi					
Ayirma					

138. Misollarni yeching:

60 km – (32 km 213 m + 17 km 957 m)

72 kg 456 g + 36 kg 674 g – 837 g

(36 m 8 sm + 29 m 96 sm) + (70 m 3 sm – 53 m 18 sm)

12 sr 8 kg – 4 sr 57 g – (3 sr 63 kg + 1 sr 47 kg)

139. Mehnat darslari uchun 3 m 50 sm sim kesib olingach, kalavada 6 m 75 sm sim qoldi. Avval kalavada qancha sim bo'lgan?

140. Maktabga borish uchun o'quvchi uydan avtobus bekatigacha 627 m yo'lni piyoda, 2 km 386 m yo'lni avtobusda, avtobus bekatidan maktabgacha 150 m yo'lni bosib o'tsa, uydan maktabgacha bo'lgan masofani aniqlang.

141. O'quvchilar maktab tomorqasidan 1 sr 30 kg kartoshka, undan 75 kg kamroq bodring, bodringdan 49 kg ortiq karam yig'ib olishdi. O'quvchilar hammasi bo'lib necha kilogramm sabzavot yig'ib olishdi?

142. Misollarni yeching:

30 sr – 5 sr 20 kg + 63 kg

25 m + 16 m 83 sm – 28 m 90 sm

89 t 700 kg + 300 kg – 40 t 70 kg

20 m – 20 sm

30 kg – 85 g

16 km – 3 km 7 m

143. Amallarni bajaring:

$$70000 - (2340 - 780) + 5648$$

$$3248 + 17496 - (8260 + 3970)$$

$$61010 - 35948 + 9783$$

$$6 \text{ t } 3 \text{ sr} - 9 \text{ sr}$$

$$8 \text{ m} - 79 \text{ sm}$$

$$32 \text{ m} - 287 \text{ mm}$$

144. Quyidagi sonlar yordamida ayirish amaliga doir misollar tuzib, ularni yeching: 25 t, 640 kg, 5 t 480 kg.



MUSTAHKAMLASH UCHUN MASHQLAR

1. Tikuv sexida 30 m jun gazlama bor edi. Avval 5 m 75 sm, so'ngra yana 12 m 90 sm gazlama sarflandi. Necha metr jun gazlama qoldi?

2. Yig'indini toping:

a) $3 \text{ t } 2 \text{ sr} + 8 \text{ t } 9 \text{ sr}$

$$15 \text{ kg } 300 \text{ g} + 700 \text{ g}$$

$$24 \text{ m } 16 \text{ sm} + 32 \text{ m } 48 \text{ sm}$$

$$3 \text{ t } 420 \text{ kg} + 7 \text{ t } 580 \text{ kg}$$

b) $13 \text{ sr } 28 \text{ kg} + 19 \text{ sr } 87 \text{ kg}$

$$42 \text{ km } 132 \text{ m} + 27 \text{ km } 869 \text{ m}$$

$$56 \text{ sm } 9 \text{ mm} + 38 \text{ sm } 7 \text{ mm}$$

$$60 \text{ kg } 78 \text{ g} + 9 \text{ kg } 56 \text{ g}$$

3. Ayirmani toping:

a) $1 \text{ kg} - 210 \text{ g}$

$$1 \text{ m} - 16 \text{ sm}$$

$$3 \text{ t} - 543 \text{ kg}$$

$$3 \text{ km } 200 \text{ m} - 32 \text{ m}$$

b) $16 \text{ m } 30 \text{ sm} - 8 \text{ m } 50 \text{ sm}$

$$27 \text{ t } 631 \text{ kg} - 9 \text{ t } 780 \text{ kg}$$

$$70 \text{ kg} - 60 \text{ g}$$

$$15 \text{ sm } 3 \text{ mm} - 8 \text{ sm } 7 \text{ mm}$$

4. 3 kg un sotib olindi. 800 g un sarf qilindi. Qancha un qoldi?



BIR XONALI SONLARGA KO'PAYTIRISH VA BO'LISH

OG'ZAKI KO'PAYTIRISH VA BO'LISH

145. Og'zaki yeching. Hisoblash qaysi xona birligidan boshlanadi?

a) $30 \cdot 3$	$400 \cdot 2$	$60 : 2$	$400 : 4$	$150 : 3$
$40 \cdot 6$	$500 \cdot 3$	$80 : 4$	$800 : 2$	$140 : 7$
$50 \cdot 5$	$600 \cdot 6$	$90 : 3$	$600 : 3$	$200 : 5$
$70 \cdot 2$	$800 \cdot 5$	$50 : 5$	$100 : 5$	$160 : 8$

b) $21 \cdot 3$	$111 \cdot 5$	$36 : 3$	$484 : 4$
$24 \cdot 2$	$213 \cdot 2$	$44 : 4$	$639 : 3$
$32 \cdot 3$	$122 \cdot 4$	$26 : 2$	$909 : 9$
$41 \cdot 2$	$123 \cdot 3$	$88 : 8$	$246 : 2$

146. Har bir misolga taalluqli javobni toping:

$6 \cdot 7$	0	$21 \cdot 2$
$40 : 8$	42	$0 \cdot 5$
$0 : 9$	5	$5 : 5$
$1 \cdot 5$	1	$1 + 0$

147. Misollar tuzib, ularni yeching:

148. 1) Bitta ruchkaning bahosi 70 so'm. Uchta, beshta, o'nta ruchka sotib olish uchun qancha pul to'lanadi?
 2) Uchta albomning bahosi 120 so'm. 5 ta, 8 ta albom sotib olish uchun qancha pul to'lanadi?

149. Masala tuzing, yechilishini tushuntiring:



Masalaning yechilishi

1. Bitta ko'ylak tikish uchun necha metr gazlama kerak bo'ladi?

$$12 \text{ m} : 4 = 3 \text{ m.}$$

2. 30 m gazlamadan nechta ko'ylak tikiladi?

$$30 \text{ m} : 3 \text{ m} = 10 \text{ (ta ko'ylak).}$$

Javob: 30 m gazlamadan 10 ta ko'ylak.



Masalaning yechilishi

1. Bitta qutida nechta qalam bor?

$$24 \text{ ta qalam} : 3 = 8 \text{ ta qalam.}$$

2. Beshta qutida nechta qalam bor?

$$8 \text{ ta qalam} \cdot 5 = 40 \text{ ta qalam.}$$

Javob: beshta qutida 40 ta qalam bor.

150. 1) 300 kg kartoshka 6 ta qopga solindi. Har bir qopga necha kilogrammdan kartoshka solindi?
 2) 4 ta bir xil bankada 8 kg bo'yoq bor. Ta'mirlash uchun 24kg bo'yoq sarflansa, shunday bankalardan nechta kerak bo'ladi?

151. 1) Besh xonali sonlarning og'zaki ko'paytirilishi va bo'linishini ko'rib chiqing:

$$6 \cdot 2 = 12$$

$$6000 \cdot 2 = 12000$$

$$6 \text{ ming birl.} \cdot 2 = 12 \text{ ming birl.}$$

$$14 : 2 = 7$$

$$14000 : 2 = 7000$$

$$14 \text{ ming birl.} : 2 = 7 \text{ ming birl.}$$

- 2) Amallarning bajarilishini tushuntiring:

$$60 \cdot 3 = \quad 180 : 3 = \quad 24 \cdot 2 = \quad 36 : 3 =$$

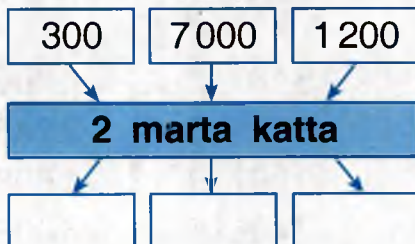
$$6000 \cdot 3 = \quad 18000 : 3 = \quad 24000 \cdot 2 = \quad 36000 : 3 =$$

152. Misollar tuzib, yeching:

Ko'paytuvchi	4000	120	2	332	21000
Ko'paytuvchi	6	4	6000	3	4
Ko'paytma					

Bo'linuvchi	15000	6000	3690	4500	8000
Bo'luvchi	3	6	3	1	2
Bo'linma					

153. Misollar tuzib, og'zaki yeching:






154. Berilgan shartlar bo'yicha masala tuzing.

a) 12 kg dan 3 ta yashik
10 kg dan 4 ta yashik

b) Jami – 1000 so'm
300 so'mdan 2 ta daftar
90 so'mdan 4 ta ruchka
Qoldi – ? so'm

d)

			
O'rtacha tezlik	5 m/min	100 m/min	40 m/s
Vaqt	6 min	10 min	4 s
Masofa	?	?	?

YOZMA KO'PAYTIRISH VA BO'LISH

155. Bir xonali sonlarga yozma ko'paytirish qanday bajarilishini eslang. Hisoblash amali qaysi xona birligidan boshlanadi?

$$\begin{array}{r} 35 \\ \times 6 \\ \hline 210 \end{array}$$

$$\begin{array}{r} 348 \\ \times 3 \\ \hline \dots 44 \end{array}$$

$$\begin{array}{r} 1618 \\ \times 4 \\ \hline \dots 2 \end{array}$$

$$\begin{array}{r} 3008 \\ \times 6 \\ \hline \dots 48 \end{array}$$

156. Misollarni yeching:

48 · 5	215 · 3	5128 · 2	3107 · 3	4006 · 6
63 · 7	106 · 4	1756 · 5	8025 · 6	2045 · 4
28 · 4	321 · 7	2438 · 3	9007 · 8	1608 · 3
50 · 3	804 · 2	7287 · 4	2406 · 5	5003 · 9

157. Fermer xo'jaligi 24506 t bug'doy va undan 2 marta ko'p guruch yetishtirdi. Fermer xo'jaligida hammasi bo'lib necha tonna don yetishtirildi?

158. Oshxonaga 57 kg dan 3 qop piyoz va 49 kg dan 4 qop kartoshka olib kelindi. Hammasi bo'lib 286 kg sabzavot sarflandi. Necha kilogramm sabzavot qoldi?

159. Ko'paytmani toping:

a) $240 \cdot 3$	$3700 \cdot 4$	$3720 \cdot 3$	$8400 \cdot 5$
$180 \cdot 5$	$7500 \cdot 6$	$5407 \cdot 4$	$2300 \cdot 8$
$360 \cdot 4$	$4300 \cdot 7$	$3106 \cdot 5$	$3701 \cdot 9$
$570 \cdot 6$	$2800 \cdot 8$	$2370 \cdot 6$	$8006 \cdot 2$

b) Ko'paytuvchilarning o'rinlarini almashtirib ko'paytiring:

$3702 \cdot 1$	$3120 \cdot 4$	$5 \cdot 6300$	$2004 \cdot 5$
$5 \cdot 2603$	$5008 \cdot 7$	$0 \cdot 7001$	$8003 \cdot 7$
$7 \cdot 4801$	$9 \cdot 2003$	$3407 \cdot 3$	$9 \cdot 2130$
$5100 \cdot 6$	$8 \cdot 12000$	$6201 \cdot 1$	$8 \cdot 3015$

160. Sotuvchi bir kunda har birida 2 kg dan 135 ta xaltacha guruch sotdi. Sotuvchi hammasi bo'lib necha kilogramm guruch sotdi?

161. Trikotaj fabrikasida 24106 juft qo'lqop, undan 2 marta ko'p qalpoq va qo'lqopdan 5984 ta ortiq sharf ishlab chiqarildi. Trikotaj fabrikasi hammasi bo'lib qancha mahsulot ishlab chiqardi?

162. 1) Namunalarga qarab, besh xonali sonlarning ko'paytirilishini tushuntiring:

$$\begin{array}{r} 17568 \\ \times \quad 2 \\ \hline 35136 \end{array}$$

$$\begin{array}{r} 6261 \\ \times \quad 5 \\ \hline 31305 \end{array}$$

2) Yozma ko'paytirishni bajaring. Ko'paytirish qaysi xona birligidan boshlanganligini ayting:

$13216 \cdot 4$	$23417 \cdot 4$	$17285 \cdot 5$	$26347 \cdot 4$
$20635 \cdot 3$	$31842 \cdot 3$	$28967 \cdot 2$	$5107 \cdot 5$
$14852 \cdot 6$	$15673 \cdot 6$	$14361 \cdot 4$	$6028 \cdot 9$

3)

$3 \cdot 26082$	$20306 \cdot 4$	$30649 \cdot 3$	$12408 \cdot 8$
$8 \cdot 10475$	$10845 \cdot 6$	$11504 \cdot 6$	$10645 \cdot 9$
$7 \cdot 6096$	$10072 \cdot 9$	$13049 \cdot 7$	$71532 \cdot 1$

163. Bayramda sinf o'quvchilari uchun 15000 so'mlik chipta berildi. Undan 1750 so'mdan 5 ta sirk chiptasi, 900 so'mdan 4 ta teatr chiptasi va hayvonot bog'ida kirish uchun 2 ta chipta berildi. 2 ta hayvonot bog'i chiptasi necha so'm turadi?

164. Korxonada 6852 dona yashil va undan 4 marta ortiq qizil cherepitsa ishlab chiqardi. Korxonada qancha qizil cherepitsa ishlab chiqardi?

165. 1) Ko'paytirishni tushuntirish bilan bajaring:

$\begin{array}{r} 107 \\ \times \quad 3 \\ \hline \dots 1 \end{array}$	$\begin{array}{r} 1025 \\ \times \quad 6 \\ \hline \dots 50 \end{array}$	$\begin{array}{r} 3106 \\ \times \quad 7 \\ \hline \dots 4. \end{array}$	$\begin{array}{r} 4003 \\ \times \quad 5 \\ \hline \dots 1. \end{array}$	$\begin{array}{r} 20\,006 \\ \times \quad 2 \\ \hline \dots 2 \end{array}$
------------------------------------------------------------------------	--------------------------------------------------------------------------	--------------------------------------------------------------------------	--------------------------------------------------------------------------	----------------------------------------------------------------------------

2) Sonlarning o'rnini almashtirib, misollar javobini to'g'ri yechilishini tekshiring:

$$4 \cdot 20708 = 82832$$

$$2 \cdot 40709 = 81418$$

$$3 \cdot 6095 = 18285$$

$$9 \cdot 10209 = 91881$$

$$5 \cdot 1024 = 5120$$

$$8 \cdot 2133 = 17064$$

3) Xatolarni topib, to'g'ri yechilishini tushuntiring:

$$\begin{array}{r} 34050 \\ \times \quad 2 \\ \hline 68000 \end{array}$$

$$\begin{array}{r} 10066 \\ \times \quad 7 \\ \hline 70062 \end{array}$$

$$\begin{array}{r} 20708 \\ \times \quad 3 \\ \hline 65154 \end{array}$$

$$\begin{array}{r} 9062 \\ \times \quad 3 \\ \hline 27386 \end{array}$$

$$\begin{array}{r} 4063 \\ \times \quad 4 \\ \hline 8252 \end{array}$$

166. Misollar tuzib, yeching:

- 1) 6478 sonini 5 marta orttiring;
- 2) 31504 va 6 ning ko'paytmasini toping;
- 3) 2039 sonini 942 ta orttiring;
- 4) 6350 sonini 7 ga ko'paytiring;
- 5) 2809 va 9 sonining yig'indisini toping.

167. Qurilishga 100000 dona g'isht olib kelindi. Birinchi kuni 12608 dona g'isht sarflandi, ikkinchi kuni birinchi kundagidan 2 marta ko'p, uchinchi kuni esa birinchi kundagiga nisbatan 2407 ta ortiq g'isht sarflandi. Uch kunda qancha g'isht sarflandi?

168. 1) Misollarning yechilish usullarini eslang va amallarni bajaring:

$$30 + 20 \cdot 3$$

$$200 - 80 \cdot 2$$

$$7009 + 40 \cdot 4$$

$$40000 - 5603 \cdot 6$$

$$(60 + 2086) \cdot 3$$

$$(70134 - 28063) \cdot 2$$

2) Har bir ustundagi misollarni yechib, natijalarini solishtiring:

a) $10307 \cdot 4 + 4$

$10307 + 4 \cdot 4$

$10307 \cdot (4 + 4)$

b) $2 \cdot 8026 + 3007 \cdot 3$

$2 \cdot (8026 + 3007) \cdot 3$

$2 \cdot (8026 + 3007 \cdot 3)$

169. 1) Namunadagi misollarga qarab, ko'p xonali sonlarning ko'paytirilishini tushuntiring:

$$\begin{array}{r} 4060 \\ \times 7 \\ \hline 28420 \end{array}$$

$$\begin{array}{r} 4600 \\ \times 7 \\ \hline 32200 \end{array}$$

2) $15160 \cdot 4$

$27380 \cdot 3$

$10940 \cdot 6$

$12137 \cdot 5$

$30080 \cdot 3$

$12600 \cdot 4$

$13400 \cdot 7$

$21063 \cdot 4$

$9 \cdot 3600$

$5 \cdot 12300$

$8 \cdot 6400$

$9 \cdot 3408$

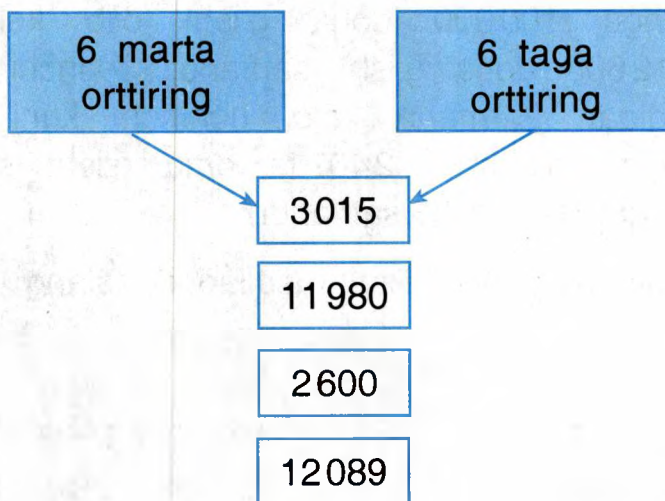
$15000 \cdot 6$

$7 \cdot 7200$

$4 \cdot 12340$

$13607 \cdot 5$

170. Misollarni yeching:



171. Misollarni yeching:

$$19008 \cdot 5 - 40569 \cdot 2$$

$$13706 \cdot 3 \cdot 6 + 28409$$

$$70000 - 1726 \cdot 4 \cdot 6$$

$$15038 \cdot 4 - 24693 + 9487$$

$$14196 + 10819 \cdot 7 + 39170$$

$$40500 - 1608 \cdot 8 + 35278$$

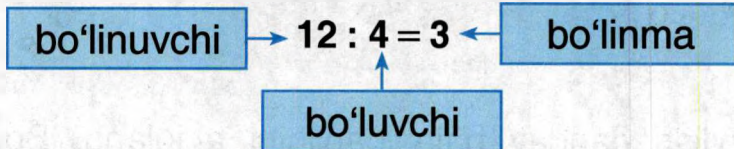
$$64106 + 29845 - 16042 \cdot 5$$

$$3048 \cdot 6 \cdot 3 - 48207$$

172. Chorvachilik fermasida 4038 ta sigir, sigirlardan 1609 ta kam echki, sigirlar bilan echkilarning birgalikdagi sonidan 3 marta ko'proq qo'y boqildi. Chorvachilik fermasida nechta qo'y boqiladi?

173. Tikuvchilik korxonasiga 27 m li 4 o'ram jun gazlama va 35 m li 8 o'ram shoyi gazlama olib kelindi. Bulardan 190 m gazlama sarflandi. Tikuvchilik korxonasida necha metr gazlama qoldi?

Bo'lish amalining bajarilishini eslang:



Qoldikli bo'lish qanday bajarilgan?

$$13 : 4 = 3 \text{ qold. } 1$$

Bo'luvchi bilan qoldiqni taqqoslang.



Bo'lishda qoldiq bo'luvchidan doimo kichik bo'lishi lozim.

174. Misollarni yeching. Bo'linma bilan qoldiqni solishtiring:

$$6 : 4$$

$$19 : 4$$

$$51 : 7$$

$$39 : 7$$

$$7 : 5$$

$$27 : 6$$

$$30 : 9$$

$$75 : 8$$

$$8 : 3$$

$$39 : 8$$

$$42 : 8$$

$$80 : 9$$

175. Gul do'konida 48 ta chinni guldan guldastalar yasaldi. Har bir guldastada 7 ta chinni gul bo'lsa, nechta guldasta yasaldi va nechta gul qoldi?

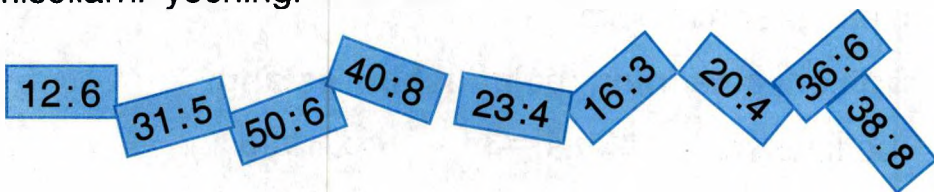
176. 1) Bo'linma va qoldiqni toping:

$$\begin{array}{ccccc} 16:7 & 70:8 & 16:3 & 41:6 & 11:2 \\ 38:9 & 63:8 & 27:5 & 33:4 & 18:5 \end{array}$$

2) 2 ga, 3 ga, 4 ga, 5 ga, 6 ga, 7 ga, 8 ga, 9 ga bo'lganda qoldiq nechaga teng bo'ladi?

3) 9 ga, 5 ga, 7 ga, 3 ga bo'lganda eng katta qoldiq nechaga teng bo'ladi?

177. Berilgan misollar ichidan qoldiqli bo'linadiganlarini topib, misollarni yeching:



178. 1) Yozma bo'lish qanday bajarilganligini aniqlang. Bo'lish qaysi xona birligidan boshlanganligini ayting va misollarni yeching:

$$\begin{array}{r} 4'26 \overline{) 3} \\ \underline{3} \\ 12 \\ \underline{12} \\ 6 \\ \underline{6} \\ 0 \end{array}$$

$$\begin{array}{r} 12'94 \overline{) 2} \\ \underline{12} \\ 9 \\ \underline{8} \\ 14 \\ \underline{14} \\ 0 \end{array}$$

$$\begin{array}{r} 9'501 \overline{) 3} \\ \underline{9} \\ 5 \\ \underline{3} \\ 20 \\ \underline{18} \\ 21 \\ \underline{21} \\ 0 \end{array}$$

2) 420:5	2394:2	1148:7	8358:7	8736:4
476:7	7845:3	2344:4	9495:3	7438:2
504:3	6880:5	2618:7	3702:6	5999:7
516:6	8736:4	3008:8	6282:9	4671:9

179. Non zavodidan 3 ta non do'koniga 7581 kg non jo'natildi. Har bir non do'koniga necha kilogrammdan non jo'natildi?

180. Bo'linmani toping:

630:2	5040:3	7500:6	7200:6	9570:3
780:3	4720:4	7800:3	8400:7	4350:5
850:5	1860:3	8000:5	5800:5	6780:6
900:5	8960:8	9000:2	7160:2	8550:3

181. Qurilishga 54852 dona qizil, undan 4 marta kamroq oq g'isht va oq g'ishtdan 3 marta kam qoplama plita olib kelindi. Qurilishga nechta qoplama plita olib kelindi?

182. Misollarni ko'rib chiqing. Bo'linuvchida nechta raqam bor?

$$\begin{array}{r}
 \underline{9'2364} \mid 2 \\
 \underline{8} \quad \quad \quad \underline{46182} \\
 \underline{12} \\
 \underline{12} \\
 \underline{3} \\
 \underline{2} \\
 \underline{16} \\
 \underline{16} \\
 \underline{4} \\
 \underline{4} \\
 0
 \end{array}$$

$$\begin{array}{r}
 \underline{13'456} \mid 2 \\
 \underline{12} \quad \quad \quad \underline{6728} \\
 \underline{14} \\
 \underline{14} \\
 \underline{5} \\
 \underline{4} \\
 \underline{16} \\
 \underline{16} \\
 0
 \end{array}$$



Besh xonali sonni bir xonali songa yozma bo'lish to'rt xonali sonni bir xonali songa bo'lish kabi bajariladi.

183. Bo'linmani toping:

a) 58552:8	85366:2	83076:6	16714:2
95046:3	47304:8	37404:3	36736:4
74185:5	37404:3	75720:8	13845:3
b) 12390:2	73953:3	36702:9	57840:5
79786:7	64296:2	38610:6	28080:6
14784:3	78336:2	92364:2	59920:7
78592:4	27048:7	13245:5	78520:4

184. Tumanda 30685 ta yuk mashinasi va undan 5 marta kam traktor bor. Tumanda hammasi bo'lib nechta traktor bor?

185. Parrandachilik fermasida 6720 ta parranda bor. Bulardan yarmi tovuq, $\frac{1}{3}$ qismi kurka, qolganlari o'rdak. Parrandachilik fermasida qancha o'rdak bor?

186. Sonning ulushi qanday topiladi?

- Toping:
- a) 69 sonining $\frac{1}{3}$ bo'lagi;
 - b) 350 sonining $\frac{1}{5}$ bo'lagi;
 - d) 1600 sonining $\frac{1}{8}$ bo'lagi.

187. Daladan 51848 kg sabzavot yig'ib olindi. Sabzavotlarning $\frac{1}{4}$ bo'lagi kartoshka, qolgan sabzavotlarning $\frac{1}{6}$ bo'lagi karam bo'lsa, necha kilogramm karam yig'ib olindi?

188. 1) Namunalarni ko'rib chiqib, bo'linmadagi nollarni tushuntiring.

$$\begin{array}{r|l} 18'081 & 3 \\ \hline 18 & 6027 \\ \hline -0 & \\ -0 & \\ \hline 8 & \\ -6 & \\ \hline 21 & \\ -21 & \\ \hline 0 & \end{array}$$

$$\begin{array}{r|l} 8'1936 & 2 \\ \hline 8 & 40968 \\ \hline -1 & \\ -0 & \\ \hline 19 & \\ -18 & \\ \hline 13 & \\ -12 & \\ \hline 16 & \\ -16 & \\ \hline 0 & \end{array}$$

$$\begin{array}{r|l} 6'2418 & 3 \\ \hline 6 & 20806 \\ \hline -2 & \\ -0 & \\ \hline 24 & \\ -24 & \\ \hline 1 & \\ -0 & \\ \hline 18 & \\ -18 & \\ \hline 0 & \end{array}$$

2) 65290:5

21483:7

88824:3

56016:8

56232:8

30240:5

25854:6

40035:5

83216:2

32212:4

20180:5

54078:6

92547:3

30222:6

92096:2

85045:5

189. Misollarni yeching. Hisoblashlarning to'g'riligini ko'paytirish bilan tekshiring:

58360:4

88880:4

97600:5

34050:6

63000:6

7302:3

61032:8

95840:4

70210:7

60360:6

50800:8

25300:4

95620:4

36000:8

26400:6

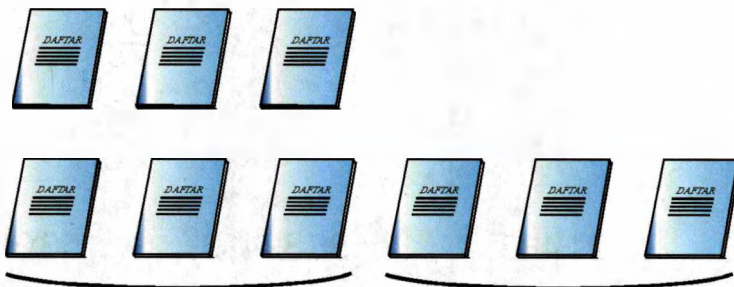
78570:9

190. 70866, 57672, 78570, 51336 sonlarini 9 marta va 9 ta kamaytiring.

191. 1) 8 ta koptok 2 ta koptokdan necha marta ko'p?



2) 3 ta daftar 6 ta daftardan necha marta kam?



Buni qanday aniqladingiz?



Eslang!

Bir sonning ikkinchi sondan necha marta katta (kichik) ligini topish uchun

192. Bir sonning ikkinchi sondan necha marta katta yoki kichikligini hisoblang:

81 000 va 3	6 va 13686	80255 va 7	2900 va 5
94596 va 4	5 va 15970	53920 va 8	2 va 12640
6 va 98400	87600 va 4	94500 va 3	29000 va 5

193. 6 ta sport kastumi uchun 54078 so'm to'landi. Xuddi shunday 8 ta kastum uchun necha so'm pul to'lanadi?

194. Bosmaxona 200 000 ta yangi darslik chop etdi. Birinchi kuni 38 600 ta darslik, ikkinchi kuni birinchi kundagidan 2 marta ko'p, uchinchi kuni ikkinchi kundagidan 4 marta kam darslik chop etildi. To'rtinchi kuni qancha darslik chop etilgan?

195. Misollarni tushuntirish bilan yeching:

34 110 : 9	75 600 : 3	84 000 : 6
91 800 : 6	33 200 : 4	70 000 : 5
51 400 : 2	57 000 : 3	43 260 : 7
46 500 : 5	27 200 : 8	51 000 : 3

196. Misollar tuzib, ularni yeching:

3 marta orttiring	6 083	25 607	3 600	10 357
5 marta kamaytiring	69 130	73 015	62 000	38 135
9 ta orttiring	71 983	69 097	19 991	29 684
9 ta kamaytiring	20 101	35 000	28 003	70 005

197. Bozorga sotish uchun 12 060 ta tarvuz, undan 4 marta kam qovun va tarvuzlarga qaraganda 8 267 ta ortiq qovoq yuborildi. Bozorga hammasi bo'lib qancha poliz ekinlari yuborilgan?

198. Konserv zavodi 60 450 banka uzum sharbati, undan 3 marta kamroq o'rik sharbati va o'rik sharbatidan 4 marta ko'p olma sharbati ishlab chiqardi. Zavod necha banka o'rik sharbati ishlab chiqargan?

199. Misollarni yeching:

63 274 – 1 416 : 3	7 728 : 4 : 2 + 1 044 : 3
3 184 : 4 + 63 805	20 506 · 4 – 8 250 : 6
49 836 + 7 122 : 6	7 938 : 7 – 258
1 312 : 8 + 5 344 : 2 · 7	4 572 : 4 · 9 – 702 : 3

200. Misollarni yeching:

$$788 + 49600 : 2 - 92580 : 6$$

$$65826 + (7038 \cdot 6 - 20153) : 5$$

$$100000 - (64840 : 4 + 936) \cdot 3$$


$$80104 : 8 - 6050 + 4937 \cdot 7$$

201. Maktab kutubxonasida 20430 ta kitob bor. Ularning $\frac{1}{5}$

qismini badiiy adabiyot, qolgan yarmini yuqori sinf darsliklari hamda qolganini boshlang'ich sinf darsliklari tashkil etadi. Kutubxonada boshlang'ich sinf darsliklari qancha?

202. Nashriyot birinchi kuni 2370 ta, ikkinchi kuni birinchi kundan 3 marta kam, uchinchi kuni ikkinchi kunga qaraganda 4 marta ko'p jurnal chop etdi. Nashriyot uch kunda qancha jurnal chop etgan?

203. Masala tuzing va yuqoridagi masala bilan solishtiring:

Jami	I kun	- 23700 dona	
100000	II kun	- 3 marta kam	
jurnal	III kun	- 4 marta ko'p	
	IV kun	- ?	

204. Misollarni yeching:

$$(30000 - 15608) \cdot 6$$

$$40040 - 32768 : 8$$

$$24048 : 6 \cdot 8$$

$$13390 : 5 + 178 \cdot 0$$

Eng kichik javobni topib yozing.

$$15003 : 3 + 2816 \cdot 3$$

$$1407 \cdot 10 - 780 \cdot 10$$

$$(35010 - 34338) : 7$$

$$51000 : 3 : 1000$$

205. Misollarni yeching:

$$54724 : 4 + 7908 \cdot 6 + 58$$

$$8590 + 9527 \cdot 9 + 13390 : 5$$

$$6825 \cdot 4 + 37806 : 3 - 6959$$

Eng katta javobni topib yozing.

206. Jadvalda berilgan shartlar bo'yicha masala tuzing va uni yeching.

	Narxi	Miqdori	Qiymati
Kreslo	12 860 so'm	4	?
Stul	?	6	60 180 so'm



MUSTAHKAMLASH UCHUN MASHQLAR

1. Qandolatchilik sexi 10240 ta shirinlik pishirdi. Ularning $\frac{1}{4}$ qismi kafega, qolgan yarmi magazinga, qolgani esa maktab oshxonasiga tarqatildi. Maktab oshxonasiga qancha shirinlik tarqatilgan?
2. Amallarni bajaring:
 $24556 : 4 \cdot 5$ $14152 \cdot 3 + 1256 \cdot 9$
 $56105 : 7 \cdot 8$ $18050 \cdot 4 : 5$
3. Uch oyda korxonada 39600 juft paypoq ishlab chiqardi. Korxonada bir oyda necha juft paypoq ishlab chiqargan?
4. Narxi 12600 so'mdan 4 ta stul va 49600 so'mlik stol sotib olindi. Xarid qilingan narsalarga jami necha so'm to'landi?
5. Misollarni yeching:
 $9572 : 4$ $6124 \cdot 3$ $27134 : 2$ $23108 \cdot 4$



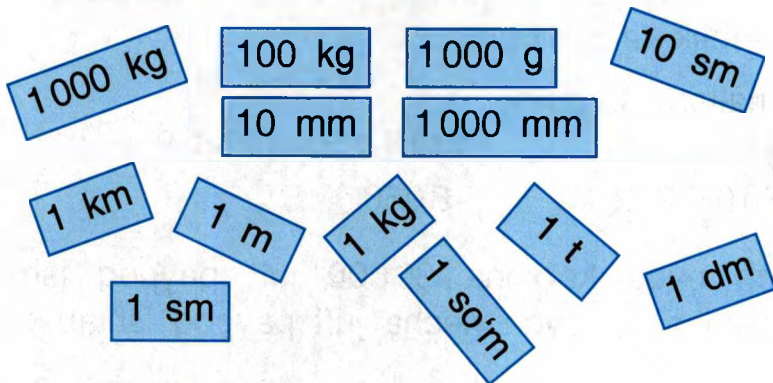
KATTALIKLARNI BIR XONALI SONGA KO'PAYTIRISH VA BO'LISH

207. Og'zaki yeching:

$12 \text{ m} \cdot 3$	$1200 \text{ km} \cdot 2$	$48 \text{ sm} : 4$	$7200 \text{ t} : 8$
$24 \text{ t} \cdot 2$	$3100 \text{ t} \cdot 3$	$36 \text{ s} : 3$	$2400 \text{ s} : 6$
$23 \text{ kg} \cdot 3$	$1400 \text{ so'm} \cdot 2$	$66 \text{ m} : 6$	$3500 \text{ so'm} : 5$
$21 \text{ sm} \cdot 4$	$250 \text{ so'm} \cdot 4$	$100 \text{ g} : 5$	$40000 \text{ km} : 4$

208. Bo'sh kataklarga quyida berilgan sonlardan mosini qo'ying:

1 m	1 kg	1 t	1 sm	1 sr
100 sm	10 sr	1000 m	100 tiyin	10 sm



209. 1) 72 kg mandarin 8 ta yashikka, 50 kg olma 5 ta yashikka teng qilib joylashtirildi. Ulardan qaysi biri og'irroq: mandarin solingan yashiklarmi yoki olma solingan yashiklarmi?

2) 25 m lenta 5 ta teng bo'lakka, 45 m tasma esa 9 ta teng bo'lakka bo'lindi. Ulardan qaysi biri uzunroq: lenta bo'lagimi yoki tasma bo'lagimi?

3) 500 g li 2 bo'lak saryog'ning massasi qancha?

4) Bir kalavada 20 m rezinka tasma bo'lsa, 5 ta shunday kalavada qancha rezinka tasma bo'ladi?

210. Kichikroq o'lchov birliklarida ifodalang:

a) $3 \text{ m} = \dots \text{ sm}$

$14 \text{ m} = \dots \text{ sm}$

$3 \text{ sm} = \dots \text{ mm}$

$20 \text{ sm} = \dots \text{ mm}$

$6 \text{ kg} = \dots \text{ g}$

$15 \text{ kg} = \dots \text{ g}$

$7 \text{ sr} = \dots \text{ kg}$

$21 \text{ sr} = \dots \text{ kg}$

b) $20 \text{ m } 6 \text{ sm} = \dots \text{ sm}$

$17 \text{ m } 18 \text{ sm} = \dots \text{ sm}$

$43 \text{ m } 16 \text{ sm} = \dots \text{ sm}$

$3 \text{ kg } 140 \text{ g} = \dots \text{ g}$

$5 \text{ kg } 140 \text{ g} = \dots \text{ g}$

$6 \text{ kg } 14 \text{ g} = \dots \text{ g}$

$15 \text{ sm } 6 \text{ mm} = \dots \text{ mm}$

$18 \text{ sm } 5 \text{ mm} = \dots \text{ mm}$

$30 \text{ sm } 2 \text{ mm} = \dots \text{ mm}$

d) $3 \text{ t} = \dots \text{ sr}$

$12 \text{ t} = \dots \text{ sr}$

$25 \text{ t } 7 \text{ sr} = \dots \text{ sr}$

$7 \text{ t} = \dots \text{ kg}$

$18 \text{ t} = \dots \text{ kg}$

$8 \text{ t } 5 \text{ kg} = \dots \text{ kg}$

$3 \text{ m} = \dots \text{ dm}$

$20 \text{ m} = \dots \text{ dm}$

$17 \text{ m } 8 \text{ dm} = \dots \text{ dm}$

211. Sonni maydaroq o'lchov birligida ifodalash uchun qanday amallarni bajarish kerak?

212. Yirikroq o'lchov birligida ifodalang:

- | | |
|------------------------|------------------------|
| a) 500 sm = ... m | 6000 kg = ... t |
| 340 sm = ... m ... sm | 7108 kg = ... t ... kg |
| 5406 sm = ... m ... sm | 5000 sr = ... t |
| 8613 sm = ... m ... sm | 1262 sr = ... t ... sr |
| 6000 mm = ... m ... mm | 1240 mm = ... m ... mm |
| b) 40 mm = ... sm | 60000 m = ... km |
| 125 mm = ... sm ... mm | 25130 m = ... km ... m |
| 70 sr = ... t | 12000 g = ... kg |
| 5700 sr = ... t | 70006 g = ... kg ... g |
| 160 sr = ... t | 9145 g = ... kg ... g |

213. Sonni yirikroq o'lchov birligida ifodalashda qanday arifmetik amaldan foydalaniladi?

214. Misollarni yeching:

- | | | | |
|-------------------|-----------------|-----------------|----------------|
| a) $123 \cdot 10$ | $608 \cdot 100$ | $8 \cdot 1000$ | $60 \cdot 100$ |
| $2045 \cdot 10$ | $127 \cdot 100$ | $19 \cdot 1000$ | $10 \cdot 720$ |
| b) $20400 : 10$ | $52130 : 10$ | $15000 : 1000$ | |
| $80000 : 100$ | $62000 : 100$ | $10000 : 1000$ | |
| d) $20500 : 4$ | $3041 \cdot 8$ | $20132 \cdot 4$ | $17305 : 5$ |
| $28800 : 6$ | $6120 \cdot 9$ | $12067 \cdot 5$ | $97548 : 3$ |

215. 1) O'lchov birliklarida hosil bo'lgan sonlarning yozma ko'paytirilishi va bo'linishini ko'rib chiqing:

$$26 \text{ m } 43 \text{ sm} \cdot 6 = 158 \text{ m } 58 \text{ sm} \quad 84 \text{ sr } 6 \text{ kg} : 6 = 14 \text{ sr } 1 \text{ kg}$$

$$26 \text{ m } 43 \text{ sm} = 2643 \text{ sm}$$

$$\begin{array}{r} 2 \text{ } 643 \text{ sm} \\ \times \quad 6 \\ \hline 15 \text{ } 858 \text{ sm} \\ \hline 158 \text{ m } 58 \text{ sm} \end{array}$$

$$84 \text{ sr } 6 \text{ kg} = 8406 \text{ kg}$$

$$\begin{array}{r} \underline{8'406 \text{ kg}} \quad | \quad 6 \\ \underline{6} \quad | \quad \underline{1401 \text{ kg}} \\ \underline{24} \quad | \quad \underline{14 \text{ sr } 1 \text{ kg}} \\ \underline{24} \quad | \\ \quad 6 \\ \underline{\quad 6} \\ \quad 0 \end{array}$$



O'lchashda hosil bo'lgan sonni bir xonali songa ko'paytirish yoki bo'lish uchun:

- 1) o'lchashda hosil bo'lgan sonni maydaroq o'lchov birligida ifodalash;
- 2) hisoblashni bajarish;
- 3) hosil bo'lgan sonni yirikroq o'lchov birliklarida ifodalash kerak.

2) Misollarni yeching. Amallarning bajarilishini tushuntiring:

$21 \text{ m } 70 \text{ sm} \cdot 7$	$62 \text{ m } 96 \text{ sm} : 2$	$63 \text{ sr } 51 \text{ kg} : 3$
$52 \text{ sm } 6 \text{ mm} \cdot 4$	$59 \text{ sr } 60 \text{ kg} : 5$	$84 \text{ m } 6 \text{ sm} : 6$
$84 \text{ sr } 9 \text{ kg} \cdot 8$	$24 \text{ sr } 15 \text{ kg} \cdot 7$	$15 \text{ t } 6 \text{ sr} \cdot 6$
$124 \text{ m } 8 \text{ sm} \cdot 9$	$8 \text{ m } 75 \text{ sm} : 5$	$312 \text{ m } 6 \text{ sm} : 3$

216. Sport zali polining uzunligi 24 m 80 sm, eni undan 2 marta kam. Sport zali polining perimetrini toping.

217. Misollarni yeching:

$16 \text{ m } 83 \text{ sm} : 5$

$48 \text{ sr } 26 \text{ kg} : 7$

$13 \text{ m } 6 \text{ sm} : 8$

$93 \text{ sr } 5 \text{ kg} : 9$

$35 \text{ m } 40 \text{ sm} : 8$

$25 \text{ sr } 4 \text{ kg} : 6$

$40 \text{ m } 9 \text{ sm} : 7$

$54 \text{ m } 32 \text{ sm} : 5$

$1 \text{ m } 92 \text{ sm} : 3$

$2 \text{ m } 4 \text{ sm} : 6$

$7 \text{ sr } 36 \text{ kg} : 8$

$34 \text{ m } 2 \text{ sm} : 9$

218. 1) Masala tuzib, yeching:



– 1 m 20 sm

6 ta – ? m



– 3 m 50 sm

4 ta kastum – ? m

Qaysi mahsulot tikish uchun ko'proq mato ishlatiladi?

2)	Miqdori	Sarf qilindi
1 ta kastum – ? m	4	13 m 60 sm
4 ta kastum – ? m	6	19 m 20 sm

219. 1) Namunaga qarab misollarni yeching:

$2 \text{ m} : 5 = 40 \text{ sm}$

$2 \text{ m} = 200 \text{ sm}$

$$\begin{array}{r|l} 200 \text{ sm} & 5 \\ - 20 & \\ \hline 20 & \\ - 20 & \\ \hline 0 & \end{array} \quad \begin{array}{l} 40 \text{ sm} \\ \dots \end{array}$$

$3 \text{ m} : 2$

$14 \text{ sr} : 4$

$54 \text{ m} : 8$

$6 \text{ sr} : 4$

$45 \text{ m} : 6$

$86 \text{ m} : 4$

Namunadagi kattaroq o'lchov birligidagi bo'linuvchining kichikroq o'lchov birligi bilan almashtirilishini tushuntiring.

$$2) 6 \text{ m}:2 \qquad 3 \text{ sr}:6 \qquad 15 \text{ m}:5$$

$$5 \text{ m}:2 \qquad 30 \text{ sr}:6 \qquad 15 \text{ sr}:4$$

Qaysi misollarda kattaroq o'lchov birliklarini kichikroq o'lchov birliklari bilan ifodalasa bo'ladi? Sababini tushuntirib, qolgan misollarni yeching.

220. 1) 3 m 40 sm li taxta ikkiga bo'lindi. Taxtaning arralangan qismining uzunligi qancha?

2) Sayohatchilar 13 km yo'lining yarmini bosib o'tishdi. Ular yana qancha yo'lni bosib o'tishlari kerak?

221. 1) Namunalarga qarab o'lchov birliklarida ko'paytirish va bo'lish amalining qanday bajarilganini tushuntiring.

$$8 \text{ km } 47 \text{ m} \cdot 6 = 48 \text{ km } 282 \text{ m}$$

$$8 \text{ km } 47 \text{ m} = 8047 \text{ m}$$

$$\begin{array}{r} \times 8047 \text{ m} \\ \quad \quad 6 \\ \hline 48282 \text{ m} \\ \hline 48 \text{ km } 282 \text{ m} \end{array}$$

$$5 \text{ kg } 28 \text{ g}:3 = 1 \text{ kg } 676 \text{ g}$$

$$5 \text{ kg } 28 \text{ g} = 5028 \text{ g}$$

$$\begin{array}{r} \underline{5028 \text{ g}} \quad | \quad 3 \\ \underline{3} \quad \quad \quad | \quad 1676 \text{ g} \\ \underline{20} \quad \quad \quad | \quad \quad \quad \quad \\ \underline{18} \quad \quad \quad | \quad \quad \quad \quad \\ \underline{22} \quad \quad \quad | \quad \quad \quad \quad \\ \underline{21} \quad \quad \quad | \quad \quad \quad \quad \\ \underline{18} \quad \quad \quad | \quad \quad \quad \quad \\ \underline{18} \quad \quad \quad | \quad \quad \quad \quad \\ \underline{0} \quad \quad \quad | \quad \quad \quad \quad \end{array}$$

2) Amallarni bajaring:

a) 3 t 682 kg · 7	8 km 243 m · 5	30 kg 8 g · 3
4 t 53 kg · 9	15 km 16 m · 7	4 kg 18 g · 5
17 t 9 kg · 6	8 km 7 m · 9	35 kg 60 g · 2

b) 17 kg : 2	13 kg 664 g : 4	44 km 816 m : 8
31 t : 4	37 km 40 m : 2	13 t 160 kg : 2
39 kg : 5	96 m 72 mm : 8	17 kg 8 g : 4

222. 1) Yuk mashinasi bir qatnovda 4 t 380 kg sabzavotni tashidi. Yuk mashinasi 5 ta qatnovda qancha sabzavotni tashidi?

2) Yuk mashinasi beshta qatnovda 16 t 200 kg sabzavotni tashidi. Agar yuk mashinasi har qatnovda bir xil massadagi yukni tashigan bo'lsa, bitta qatnovda qancha sabzavotni tashidi?

223. Misollar tuzib, yeching:

- 16 m 273 mm ni 5 marta ko'paytiring;
- 25 kg 263 g ning 4 ga ko'paytmasini toping;
- 15 t 720 kg ni 5 marta kamaytiring;
- 35 km 8 m ning 4 ga bo'linmasini toping;
- 25 t 825 kg ning $\frac{1}{3}$ ni toping.

224. 1) Oshxonada bir kunda 4 kg 560 g shakar sarflansa, bir haftada qancha shakar sarflanadi?

2) Uch kunda oshxonada 14 kg 800 g shakar ishlatildi. Agar har kuni bir xil miqdorda shakar sarflansa, bir haftada qancha shakar kerak bo'ladi?

225. Misollarni yeching:

$21 \text{ m } 16 \text{ sm} \cdot 7$	$15 \text{ t } 164 \text{ kg} \cdot 8$	$34 \text{ kg } 70 \text{ g} : 2$
$13 \text{ m } 5 \text{ sm} : 5$	$36 \text{ t } 9 \text{ kg} : 9$	$25 \text{ kg } 209 \text{ g} \cdot 6$
$40 \text{ km } 76 \text{ m} \cdot 9$	$32 \text{ sr } 7 \text{ kg} \cdot 6$	$41 \text{ t} : 4$
$26 \text{ sr } 80 \text{ kg} : 8$	$46 \text{ kg} : 4$	$27 \text{ km } 189 \text{ m} : 3$

226. 1) Namunalarga qarab, o'lchov birliklarida ko'paytirish va bo'lish amalining bajarilishini tushuntiring:

$$63 \text{ sm } 8 \text{ mm} \cdot 4 = 252 \text{ sm } 2 \text{ mm}$$

$$63 \text{ sm } 8 \text{ mm} = 638 \text{ mm}$$

$$\begin{array}{r} \times 638 \text{ mm} \\ \quad 4 \\ \hline 2552 \text{ mm} \\ \hline 255 \text{ sm } 2 \text{ mm} \end{array}$$

$$51 \text{ t } 6 \text{ sr} : 4 = 12 \text{ t } 9 \text{ sr}$$

$$51 \text{ t } 6 \text{ sr} = 516 \text{ sr}$$

$$\begin{array}{r} \underline{516 \text{ sr}} \quad | \quad 4 \\ \underline{4} \quad \quad | \quad \underline{129 \text{ sr}} \\ 11 \quad \quad | \quad \underline{12 \text{ t } 9 \text{ sr}} \\ \underline{8} \\ 36 \\ \underline{-36} \\ 0 \end{array}$$

2) Ko'paytirish va bo'lish amallarini bajaring:

$13 \text{ dm } 6 \text{ sm} \cdot 7$	$7 \text{ sm } 4 \text{ mm} : 2$	$10 \text{ dm } 5 \text{ sm} \cdot 6$
$25 \text{ sm } 8 \text{ mm} \cdot 5$	$6 \text{ sm } 4 \text{ mm} : 4$	$41 \text{ sm } 3 \text{ mm} \cdot 8$
$10 \text{ t } 7 \text{ sr} \cdot 6$	$8 \text{ t } 1 \text{ sr} : 3$	$94 \text{ sr} : 4$
$43 \text{ sm } 4 \text{ mm} \cdot 4$	$30 \text{ t } 5 \text{ sr} \cdot 7$	$67 \text{ mm} : 2$
$8 \text{ t } 5 \text{ sr} : 5$	$82 \text{ sm } 7 \text{ mm} \cdot 3$	$83 \text{ sm} : 5$

227. Misollarni yeching:

$$40 \text{ km } 50 \text{ m} - 25 \text{ km } 317 \text{ m} : 3$$

$$(7 \text{ t } 8 \text{ kg} + 25 \text{ t } 995 \text{ kg}) \cdot 5 : 3$$

$$(72 \text{ kg } 374 \text{ g} - 28 \text{ kg } 96 \text{ g}) \cdot 5$$

$$8 \cdot (16 \text{ m } 58 \text{ mm} - 7 \text{ m } 309 \text{ mm}) : 4$$

228. Qisqa shartlar bo'yicha masalalar tuzib, yeching:

1) Bor edi – ? m


Sarflandi – 75 m 60 sm

Qoldi – 54 m 40 sm


2) Bor edi – ? m

Sarflandi – 80 m 35 sm

Qoldi – 45 m 70 sm li 3 ta o'ram gazlama

3)  Bor edi — 60 kg qoldi
? kg

3 kg 800 g 3 kg 800 g 3 kg 800 g 3 kg 800 g

4)  4 kg 200 g ? kg

229. Misollarni yeching:

$$3 \text{ sr } 4 \text{ kg} \cdot 5 + 35 \text{ sr } 35 \text{ kg} : 7$$

$$98 \text{ kg } 400 \text{ g} : 4 + 305 \text{ g} \cdot 6$$

$$200 \text{ t} - 36 \text{ t } 7 \text{ sr} \cdot 4 + 9 \text{ sr}$$

$$77 \text{ m } 56 \text{ sm} : 4 + 3 \text{ m } 7 \text{ sm} \cdot 9$$

$$1296 \text{ mm} \cdot 5 + 69 \text{ m } 720 \text{ mm} : 3$$

$$9 \text{ sm } 5 \text{ mm} \cdot 9 + 33 \text{ sm } 6 \text{ mm} : 4$$

- 230.** Toping: 1) tomonlari 2 sm 6 mm bo'lgan kvadratning perimetrini;
 2) tomonlari 34 mm bo'lgan teng yonli uchburchakning perimetrini;
 3) uzunligi 4 sm 8 mm, eni 29 mm bo'lgan to'g'ri to'rtburchakning perimetrini.

231. Sonlarni taqqoslang. $>$, $<$, $=$ belgilaridan mosini qo'ying:

8 sr ... 800 kg

5 m 6 sm ... 5 km 6 m

1 t 3 sr ... 2 t

3 m 12 sm ... 300 sm

4 sm 3 mm ... 50 mm

1 kg 200 g ... 1200 g

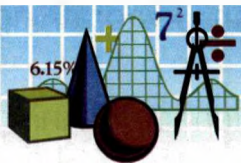


MUSTAHKAMLASH UCHUN MASHQLAR

- Bir dona xalatni tikishga 3 m 70 sm gazlama sarflandi. 9 ta shunday bir xil o'lchamli xalatni tikish uchun qancha gazlama kerak bo'ladi?
- Ko'paytirishni bajaring:

16 sm 8 mm · 5	25 m 9 sm · 6
30 m 16 sm · 4	17 t 82 kg · 5
7 km 802 m · 3	36 sr 7 kg · 8
- Bo'lishni bajaring.

6 kg 120 g : 3	3 t 87 kg : 3
9 m 63 sm : 9	8 t 1 sr : 3
68 sr 80 kg : 4	70 km 32 m : 8
- Omborxonada 4 t shakar bor edi. Shakarning $\frac{1}{5}$ qismi oshxonalarga, qolgan qismi esa do'konlarga yuborildi. Do'konlarga qancha shakar yuborildi?



YAXLIT O'NLIKLARGA KO'PAYTIRISH VA BO'LISH

232. 10 ga, 100 ga, 1000 ga ko'paytirish qoidalarini eslang.

Misollarni yeching:

$63 \cdot 10$

$125 \cdot 10$

$840 \cdot 10$

$305 \cdot 10$

$63 \cdot 100$

$125 \cdot 100$

$530 \cdot 100$

$500 \cdot 10$

$63 \cdot 1000$

$60 \cdot 1000$

$100 \cdot 70$

$5000 \cdot 10$

233. 10 ga, 100 ga, 1000 ga bo'lish qoidalarini eslang.

Misollarni yeching:

$320 : 10$

$3080 : 10$

$2600 : 100$

$100000 : 1000$

$500 : 100$

$3800 : 10$

$30000 : 100$

$73000 : 1000$

$7000 : 1000$

$3000 : 10$

$81200 : 100$

$90000 : 1000$

234. Butun sonni o'nliklar ko'paytmasi shaklida ifodalang:

20 $2 \cdot 10$	350 <input style="width: 60px; height: 30px;" type="text"/>	600 <input style="width: 60px; height: 30px;" type="text"/>	9000 <input style="width: 60px; height: 30px;" type="text"/>
--------------------------	----------------------------------------------------------------------	----------------------------------------------------------------------	-----------------------------------------------------------------------

235. 1) O'nliklarga og'zaki ko'paytiring:

$124 \cdot 20 = 2480$

$231 \cdot 30$

$500 \cdot 20$

$124 \cdot \boxed{2 \cdot 10} = 2480$

$102 \cdot 40$

$412 \cdot 20$



Sonni o'nliklarga ko'paytirish uchun, shu sonni o'nliklar soniga ko'paytirib, chiqqan sonning o'ng tomoniga nol yozib qo'yish kerak.

2) Misollarni namuna asosida og'zaki yeching:

$$960 : 30 = 32$$

$$420 : 20$$

$$6020 : 20$$

$$960 : \boxed{10 : 3} = 32$$

$$8440 : 40$$

$$9000 : 90$$



Sonni o'nliklarga bo'lish uchun, sonning oxirgi xona birligidagi nol olib tashlanadi va o'nliklar soniga bo'linadi.

236. Og'zaki yeching.

1) Sonlarning ko'paytmasini toping:

$$101 \cdot 50 \quad | \quad 213 \cdot 30 \quad | \quad 304 \cdot 20 \quad | \quad 20 \cdot 403 \quad | \quad 50 \cdot 70$$

$$213 \cdot 20 \quad | \quad 112 \cdot 40 \quad | \quad 122 \cdot 30 \quad | \quad 60 \cdot 30 \quad | \quad 90 \cdot 40$$

2) Sonlarning bo'linmasini toping:

$$80 : 20 \quad | \quad 260 : 20 \quad | \quad 5000 : 50 \quad | \quad 3600 : 30 \quad | \quad 6020 : 20$$

$$60 : 30 \quad | \quad 480 : 40 \quad | \quad 9990 : 90 \quad | \quad 8000 : 80 \quad | \quad 4840 : 40$$

237. Velosipedchi 15 km/soat tezlik bilan 2 soat, avtomobilchi esa xuddi shu vaqtda 60 km/soat tezlik bilan yo'l yurdi. Avtomobilchi bosib o'tgan yo'l velosipedchi bosib o'tgan yo'ldan necha marta uzun?

238. 13 ta sinf o'quvchilari yoshlar xiyobonini obodonlashtirishda 20 ta dan daraxt ko'chatini o'tqazishdi. Yoshlar xiyoboniga hammasi bo'lib necha tup daraxt ko'chatlari ekilgan?

239. 1) Ko'paytirish qaysi usulda bajarilganini ko'rib chiqing va misollarni yeching:

$$\begin{array}{r} 316 \\ \times 40 \\ \hline 12640 \end{array}$$

$$\begin{array}{r} 740 \\ \times 40 \\ \hline 29600 \end{array}$$

Sonni avval 4 ga ko'paytirib, nol tushirib qoldiriladi. Lekin 40 soni o'nlik son bo'lgani uchun chiqqan natijaga nol qo'shib qo'yiladi.

2) 45·30	416·40	502·40	270·20
18·20	235·20	108·70	340·80
34·60	119·30	209·50	290·40
71·50	127·60	316·30	209·60
3) 1 240·20	4 361·20	1 050·60	1 500·30
2 531·30	2 073·30	2 010·40	1 309·20

240. Angren shahrining ko'mir ishlab chiqarish kombinatidan temir yo'l orqali har birida 40 t dan 140 vagon va har birida 60 t dan 204 vagon ko'mir yuborildi. Kombinatdan hammasi bo'lib qancha ko'mir yuborilgan?

241. Avtomat-dastgohda bir ish kunida 3 276 ta buyum bo'lagi tayyorlandi. 20 ish kunida qancha buyum bo'lagi tayyorlanadi? 30 ish kunida-chi?

242. Misollarni yeching:

1) 138·50	20·149	138·40 + 1 867
207·40	40·138	356 + 163·30
320·60	50·260	280·50 – 26
345·70	407·20	100 000 – 307·80
2) 27 848 : 8 : 30	(100 000 – 61 510) : 6 : 2	
1 392 : 20 : 4	2 069 : 40 : 5 – 48 576 : 8	

243. Maktab kutubxonasida 995 ta kitob, tuman kutubxonasida undan 40 marta ko'p kitob bor. Tuman kutubxonasidagi kitoblar maktab kutubxonasidagi kitoblardan qancha ko'p?

244. Sonlarning o'nliklarga bo'linish usullarini eslang. Bo'lishni namunadagidek bajaring:

$$\begin{array}{r|l}
 92'10 & 30 \\
 -90 & \underline{307} \\
 \hline
 21 & \\
 -0 & \\
 \hline
 210 & \\
 -210 & \\
 \hline
 0 &
 \end{array}$$

a) 2700:20	4360:40	8130:30
6560:40	2460:30	5100:20
8540:20	7840:80	7320:40
b) 8200:20	8640:80	7800:30
2700:30	8320:40	8100:20
9000:50	6120:20	9540:90

245. 5 ta kalavanning har birida 750 g dan ip bor. 8 ta kalavada necha grammdan ip bor?

246. Bitta vagonga 20 t ko'mir ketadi. 12600 t ko'mir jo'natilgan bo'lsa, hamma ko'mirni jo'natish uchun nechta vagon kerak bo'lgan?

247. 1) Besh xonali sonlarning o'nliklarga bo'linishini ko'rib chiqing:

$$\begin{array}{r|l}
 178'40 & 20 \\
 -160 & \underline{892} \\
 \hline
 184 & \\
 -180 & \\
 \hline
 40 & \\
 -40 & \\
 \hline
 0 &
 \end{array}$$

$$\begin{array}{r|l}
 54'800 & 40 \\
 -40 & \underline{1370} \\
 \hline
 148 & \\
 -120 & \\
 \hline
 280 & \\
 -280 & \\
 \hline
 0 &
 \end{array}$$

2) Bo'linmani toping:

a) 63250:50	25120:40	54800:40
94620:30	54840:60	79200:30
83360:20	10440:30	99400:70
65880:40	40320:70	81000:50
b) 90000:60	50700:60	82720:20
30000:40	87360:40	54100:80
89600:80	61000:50	63250:50
29000:50	57240:60	21200:80

Bo'lish qaysi amal bilan tekshiriladi? Har bir misolni teskari amal orqali tekshiring.

248. Maktab-internat umumiy bahosi 24720 soʻmlik 6 ta chinni idishlar toʻplami va umumiy bahosi 3200 soʻmlik 80 ta choy qoshiqlar sotib oldi. Chinni idishlar toʻplami choy qoshiqlarga qaraganda necha marta qimmat?

249. Misollar tuzib, yeching:

a) boʻlinuvchi 86560; boʻluvchi 40; boʻlinmani toping.

b) birinchi koʻpaytuvchi 7348, ikkinchi koʻpaytuvchi 90; koʻpaytmani toping.

v) 83260 sonida nechta 20 talik bor?

g) 1563 sonini 20 marta orttiring.

250. Hisoblang.

1) 71520 soni 30 sonidan necha marta ortiq?

2) 50 soni 69850 sonidan necha marta kichik?

3) 61935 soni 80 sonidan nechta koʻp?

4) 60 soni 3107 sonidan nechta kam?

251. Amallarni bajaring:

$1) 6728 \cdot 5 : 20$	$13400 : 40 \cdot 8$	$1217 \cdot 50 - 54981$
$8375 \cdot 6 : 30$	$51450 : 70 \cdot 5$	$(74576 + 21604) : 20$
$1465 \cdot 40 : 50$	$13400 : 40 \cdot 8$	$62 \cdot 70 + 51029$
$428000 : 80$	$39650 : 50 \cdot 10$	$(64027 + 33573) : 40$

2) $(100000 - 50000) : 50$

$69030 : 30 + 3061 \cdot 7$

$1281 \cdot 7 + 4008 \cdot 9$

$2114 \cdot 40 - 76009 \cdot 0$

252. $>$, $<$ ishoralari yordamida boʻlinmalarni taqqoslang:

$49020 : 60$ va $72450 : 30$

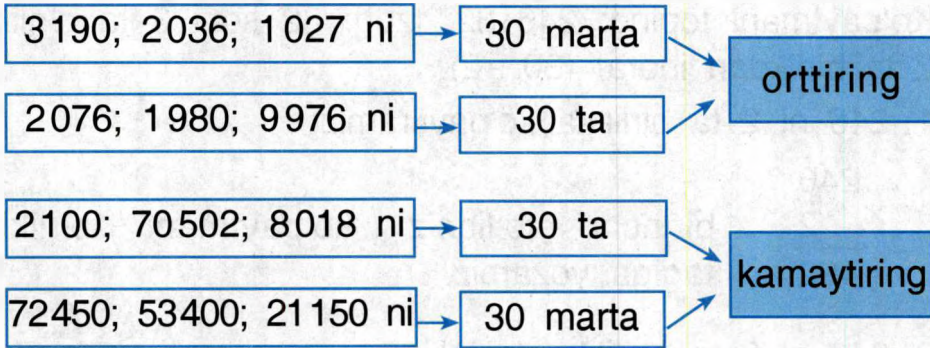
$86400 : 80$ va $82140 : 20$

$24720 : 40$ va $63360 : 20$

$90270 : 30$ va $40350 : 50$

253. 20 ish kuni mobaynida konveyerdan 16080 juft oyoq kiyim ishlab chiqarildi. 30 ish kunida necha juft oyoq kiyim ishlab chiqariladi?

254. Misollar tuzib, yeching:



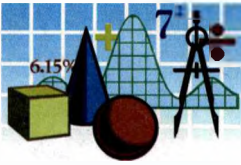
255. Yuk tashish poyezdi 48 km/soat tezlik bilan 30 soat yo'l yurdi. Poyezd shuncha vaqt ichida qancha masofani bosib o'tadi?



MUSTAHKAMLASH UCHUN MASHQLAR

- Bosmaxona 30100 dona jurnal bosib chiqarishi kerak edi. Undan 20 marta kam jurnal bosib chiqarildi. Bosmaxona yana nechta jurnal bosib chiqarishi kerak?
- Misollarni yeching:

$1517 \cdot 60 + 59100 : 30$	$186 \cdot 30$	$5640 : 40$
$30 \cdot 270 : 90$	$5620 : 10$	$84 \cdot 20$
- Misollar tuzib, yeching:
 - 1204 sonini 60 marta orttiring;
 - 26920 sonini 20 marta kamaytiring.
- 3 ta albom uchun 1200 so'm to'landi. 40 ta albom sotib olish uchun necha so'm kerak bo'ladi?



IKKI XONALI SONGA KO'PAYTIRISH

256. Ko'paytmanni toping: $246 \cdot 32$. Izoh: 32 soni 3 ta o'nlik va 2 ta birlikdan iborat ($30 + 2$).

1) 246 ni 2 ta birlikka ko'paytiramiz:

$$\begin{array}{r} 246 \\ \times 2 \\ \hline 492 \end{array} \rightarrow \text{tagiga yozamiz.}$$

birinchi to'liqsiz ko'paytmanni birliklar

2) 246 ni 3 ta o'nlikka (ya'ni 30 ga) ko'paytiramiz:

$$\begin{array}{r} 246 \\ \times 30 \\ \hline 7380 \end{array} \rightarrow \text{o'nliklar tagiga yozamiz.}$$

ikkinchi to'liqsiz ko'paytmanni (738 o'nl.),

3) $\begin{array}{r} + 492 \\ 7380 \\ \hline 7872 \end{array}$ To'liqsiz ko'paytmalarni qo'shib, natijani topamiz.



Bu amallar quyidagicha yoziladi:

$$\begin{array}{r} 246 \\ \times 32 \\ \hline + 492 \\ 738 \\ \hline 7872 \end{array}$$

– birinchi to'liqsiz ko'paytma
– ikkinchi to'liqsiz ko'paytma
– to'liq ko'paytma

257. Namunalarga qarab, ikki xonali songa ko'paytirishni tushuntiring:

$$\begin{array}{r} \times 43 \\ \underline{12} \\ + 86 \\ \underline{43} \\ 516 \end{array}$$

$$\begin{array}{r} \times 38 \\ \underline{24} \\ + 152 \\ \underline{76} \\ 912 \end{array}$$

$$\begin{array}{r} \times 256 \\ \underline{32} \\ + 512 \\ \underline{768} \\ 8192 \end{array}$$

$$\begin{array}{r} \times 432 \\ \underline{35} \\ + 2160 \\ \underline{1296} \\ 15120 \end{array}$$

258. Misollarni yeching. Har bir misoldagi to'liqsiz ko'paytma va natijalarni ayting:

$42 \cdot 13$

$314 \cdot 22$

$12 \cdot 43$

$132 \cdot 21$

$15 \cdot 24$

$837 \cdot 11$

$24 \cdot 21$

$125 \cdot 14$

$31 \cdot 16$

$231 \cdot 32$

$23 \cdot 31$

$315 \cdot 25$

$57 \cdot 34$

$122 \cdot 42$

$24 \cdot 15$

$415 \cdot 53$

259. Misollar tuzib, yeching:

Ko'paytuvchi	213	248	127	226	139	256
Ko'paytuvchi	23	11	42	33	17	35
Ko'paytma						

260. 1) Maktab-internatda har birida 12 nafar tarbiyalanuvchidan 24 ta guruh bor. «Kamolot» tashkiloti ularga sport bilan shug'ullanish uchun kiyimlar ajratdi. Barcha tarbiyalanuvchilar sport kiyimi bilan ta'minlanishi uchun qancha sport kiyimi ajratilishi kerak?

2) Oshxonaga har birida 12 ta paketdan 53 ta quti sut paketlari keltirildi. Oshxonaga necha paket sut keltirilgan?

261. Ko'paytmani toping:

$112 \cdot 13$

$234 \cdot 15$

$153 \cdot 32$

$265 \cdot 21$

$212 \cdot 43$

$316 \cdot 22$

$235 \cdot 43$

$157 \cdot 16$

$324 \cdot 24$

$143 \cdot 41$

$421 \cdot 25$

$346 \cdot 18$

262. O'quvchilarni yozgi ta'tilda Chimyon tog'lariga olib chiqish uchun 25 o'rindiqli 11 ta avtobus va 18 o'rindiqli 5 ta avtobus ajratildi. Chimyon tog'lariga nechta o'quvchi olib chiqilgan?

263. Misollarni yeching. Zarur joylarda ko'paytuvchilarning o'rnini almashtiring:

$132 \cdot 42$	$26 \cdot 151$	$142 \cdot 36$	$263 \cdot 34$	$14 \cdot 385$
$25 \cdot 116$	$141 \cdot 23$	$15 \cdot 154$	$19 \cdot 123$	$186 \cdot 54$
$32 \cdot 213$	$213 \cdot 24$	$17 \cdot 215$	$426 \cdot 15$	$328 \cdot 47$

264. Qisqa shartlar bo'yicha, masalalar tuzing va ularni yeching:

1) 14 kg dan 32 ta quti

16 kg dan 24 ta quti

Necha kilogramm

pecheniy olib kelingan?

2) 12 kg dan 23 ta yashik

15 kg dan 32 ta yashik

Sotildi – $\frac{1}{3}$ qismi

Qoldi – ?

265. Namunalarga qarang. To'rt xonali sonlarni ikki xonali sonlarga ko'paytirish qanday bajarilganligini tushuntiring. To'liqsiz ko'paytmalar va natijani (to'liq ko'paytmani) ayting.

$$\begin{array}{r} 2306 \\ \times 34 \\ \hline + 9224 \\ 6918 \\ \hline 78404 \end{array}$$

$$\begin{array}{r} 1450 \\ \times 23 \\ \hline + 4350 \\ 2900 \\ \hline 33350 \end{array}$$

$$\begin{array}{r} 1700 \\ \times 42 \\ \hline + 3400 \\ 6800 \\ \hline 71400 \end{array}$$

$$\begin{array}{r} 1700 \\ \times 42 \\ \hline + 34 \\ 68 \\ \hline 71400 \end{array}$$

Oxirgi misoldagi ko'paytirish qanday bajarilganini tushuntiring?

266. Misollarni tushuntirish bilan yeching:

$$\begin{array}{ccc} 2153 \cdot 42 & 350 \cdot 16 & 2600 \cdot 12 \\ 1035 \cdot 14 & 1560 \cdot 24 & 3200 \cdot 11 \end{array}$$

267. Sonlarning ko'paytmasini toping:

a) $2114 \cdot 13$	$3143 \cdot 32$	$1305 \cdot 22$	$3072 \cdot 12$
$1242 \cdot 42$	$3814 \cdot 24$	$2604 \cdot 14$	$1007 \cdot 15$
$1524 \cdot 22$	$4263 \cdot 17$	$4013 \cdot 13$	$3004 \cdot 24$
b) $320 \cdot 14$	$2140 \cdot 13$	$1600 \cdot 24$	$4000 \cdot 21$
$130 \cdot 23$	$1430 \cdot 41$	$3400 \cdot 13$	$2380 \cdot 22$
$460 \cdot 35$	$3020 \cdot 32$	$2700 \cdot 15$	$4080 \cdot 17$
$280 \cdot 16$	$4050 \cdot 25$	$1800 \cdot 26$	$3500 \cdot 16$

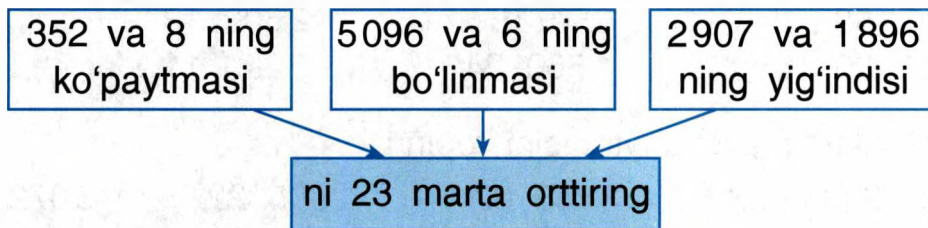
268. Sayyohlar piyoda 15 km, avtobusda undan 14 marta ortiq, samolyotda esa avtobusdagiga qaraganda 12 marta ortiq yo'lni bosib o'tishdi. Sayyohlar hammasi bo'lib qancha yo'lni bosib o'tishgan?

269. Yuk tashuvchi poyezd 124 t sement, undan 13 marta ortiq qum va sement bilan qumning birgalikdagi massasidan 364 t kam shag'al yetkazdi. Hammasi bo'lib qancha qurilish materiallari yetkazilgan?

270. Amallardan misol tuzib, ularni yeching:

- 1) 341 sonini 14 marta ko'paytiring. Chiqqan natijani 487 ta kamaytiring;
- 2) 208 va 15 sonlarining ko'paytmasini 3 marta kamaytiring;
- 3) 13400 va 40 sonlarining bo'linmasini 12 marta ko'paytiring.

271. Amallardan misol tuzib yeching:



272. Qisqa shart bo'yicha masala tuzib, yeching:

a)

Jami	<input type="text"/>	so'mdan 12 ta stakan
? so'm	<input type="text"/>	so'mdan 12 ta qoshiq

b)

Jami	<input type="text"/>	so'mdan 6 ta bokal
? so'm	<input type="text"/>	so'mdan 12 ta qoshiq

Masalalardan qaysi birini ikki usul bilan yechish mumkin? Ikkinchi masalani nega ikki usulda yechib bo'lmaydi?

273. 1) Soat zavodida bir sutkada 1230 ta soat tayyorlanadi. Agar zavod haftasiga 5 kun ishlasa, 3 haftada qancha soat tayyorlanadi?

2) Ikkita g'oz bir yil davomida 50 kg don iste'mol qilsa, 1280 ta g'ozni boqish uchun bir yilga qancha don g'amlanishi kerak?

274. Ko'paytmani toping:

a) $1420 \cdot 13$	$3006 \cdot 24$	$2300 \cdot 16$	$45 \cdot 307$
$2040 \cdot 14$	$24 \cdot 1600$	$32 \cdot 1405$	$87 \cdot 1006$
$23 \cdot 1175$	$1042 \cdot 32$	$1084 \cdot 33$	$2103 \cdot 43$
$12 \cdot 1500$	$31 \cdot 1534$	$25 \cdot 608$	$26 \cdot 287$

b) $3200 \cdot 8$	$2700 \cdot 17$	$21032 \cdot 1$	$0 \cdot 3042$
$320 \cdot 18$	$1003 \cdot 26$	$16304 \cdot 5$	$22 \cdot 350$
$5600 \cdot 11$	$8000 \cdot 14$	$2401 \cdot 30$	$17 \cdot 940$
$3412 \cdot 10$	$41 \cdot 307$	$23 \cdot 5012$	$267 \cdot 35$

275. Misollarni yeching:

$$(99 + 3025) \cdot 15$$

$$99 + 3025 \cdot 15$$

$$(38249 - 1204) \cdot 13$$

$$38249 - 1204 \cdot 13$$

$$24 \cdot 1603 + 1727$$

$$22 \cdot 3510 - 39507$$

276. Qaldirg'och bolalarini boqish uchun tumshug'ida bir marta uchib kelishida 400 ta hashorat olib kela oladi. U iniga bir kunda 20 marta uchib kelsa, bir haftada qancha hashorat olib keladi?

277. Qaldirg'ochning o'rtacha uchish tezligi 3 km/min. Qaldirg'och 30 minutda qancha masofani uchib o'tadi? Bir soatda-chi?

278. Do'konda 340 m gazlama bor edi. U yerga yana har birida 40 m dan 13 ta o'ram gazlama olib kelindi. Do'konda hammasi bo'lib necha metr gazlama bo'ldi?

279. Misollarni yeching:

$$2104 \cdot 31 + 1032 \cdot 21$$

$$14 \cdot (10001 - 3942) \cdot 2$$

$$1230 \cdot 14 + 1043 \cdot 12$$

$$13 \cdot 603 - 44 \cdot 11$$

280. Ko'paytmalarni aniqlamasdan, $>$, $<$ yoki $=$ belgilaridan mosini qo'yib amallarni taqqoslang. U yoki bu belgining qo'yilishini tushuntiring:

a) $1235 \cdot 32$ va $32 \cdot 1235$

b) $2600 \cdot 24$ va $2500 \cdot 24$

d) $1704 \cdot 14$ va $16 \cdot 1704$

e) $2112 \cdot 15$ va $2110 \cdot 15$

Misollarni yechib, javoblarini tekshiring.

281. Misollarni yeching:

$$301 \cdot 12 + 204 \cdot 17$$

$$(240 - 40 \cdot 3) \cdot 97$$

$$104 \cdot 56 + 145 \cdot 80$$

$$(150 + 50 \cdot 2) \cdot 78$$

282. Bir maydonga 304 sr, ikkinchisiga undan 29 sr ortiq bug'doy sepildi. Birinchi maydondan sepilganidan 21 marta ortiq, ikkinchi maydondan esa 24 marta ortiq bug'doy yig'ib olindi. Ikkala maydondan qancha bug'doy yig'ib olindi?

283. Uzoq yo'lga yuruvchi poyezd har biri 2067 km li 38 ta reys, boshqa poyezd esa har biri 2645 km li 29 ta reys bajardi. Qaysi poyezd ko'proq va qanchaga ko'proq yo'lni bosib o'tdi?



MUSTAHKAMLASH UCHUN MASHQLAR

1. Bir yuk mashinasida har birida 72 kg dan 56 ta qop, boshqa yuk mashinasida har birida 68 kg dan 62 ta qop bug'doy olib kelindi. Ikkala yuk mashinasida hammasi bo'lib necha kilogramm bug'doy olib kelindi?

2. Ko'paytirishni bajaring:

$$3412 \cdot 14$$

$$1230 \cdot 42$$

$$32 \cdot 1340$$

$$2104 \cdot 21$$

$$3100 \cdot 16$$

$$25 \cdot 1600$$

3. Misol tuzib, yeching:

a) 248 sonini 35 marta ko'paytiring;

b) 4023 sonini 14 marta ko'paytiring.

4. Sovg'a uchun har birining bahosi 560 so'mdan 15 ta koptok va har birining bahosi 325 so'mdan 14 ta arqon sotib olindi. Sotib olingan buyumlarning jami bahosi qancha?

5. Ko'paytirishni bajaring:

$$54 \cdot 12$$

$$204 \cdot 14$$

$$420 \cdot 23$$

$$46 \cdot 21$$

$$135 \cdot 24$$

$$311 \cdot 44$$



IKKI XONALI SONGA BO'LISH

284. Har bir ustundagi misollarni solishtiring. Ularning farqi nimada?

$$\begin{array}{cccc} 8:2 & 12:6 & 160:4 & 250:5 \\ 9:2 & 14:6 & 182:4 & 253:5 \end{array}$$

285. Qoldiqli bo'lishni bajaring:

$$\begin{array}{cccc} 50:4 & 470:3 & 3184:5 & 43185:2 \\ 50:40 & 470:30 & 3184:50 & 43185:20 \end{array}$$

286. 1) Bo'linmani va qoldiqni topamiz: $135:32$.

Misolni quyidagicha yozamiz:

$$\begin{array}{r} \underline{135} \mid \underline{32} \\ \underline{128} \mid \underline{4} \\ \hline 7 \text{ (qoldiq)} \end{array}$$



Bo'lishda bo'linmani quyidagicha topamiz:

- 1) 32 sonini 1 marta olib ko'ramiz. Tekshiramiz: $32 \cdot 1 = 32$
 $32 < 135$
- 2) 32 sonini 2 marta olib ko'ramiz. Tekshiramiz: $32 \cdot 2 = 64$
 $64 < 135$
- 3) 32 sonini 3 marta olib ko'ramiz. Tekshiramiz: $32 \cdot 3 = 96$
 $96 < 135$
- 4) 32 sonini 4 marta olib ko'ramiz. Tekshiramiz: $32 \cdot 4 = 128$
 $128 < 135$
- 5) 32 sonini 5 marta olib ko'ramiz. Tekshiramiz: $32 \cdot 5 = 160$
 $160 > 135$

Demak, 32 soni 4 marta olinadi.



Ikkita sonning bo'linmasidagi qoldiq har doim bo'luvchidan kichik bo'ladi.

2) Bo'linmani va qoldiqni toping:

48:11	80:24	135:32	125:23	415:61
42:13	91:42	109:34	146:17	525:72
39:15	87:14	120:25	376:52	174:18
68:12	93:16	219:43	288:43	355:36

287. 1) 1) 90 ta qalam qutilarga 12 tadan qilib joylandi. Qalamlar nechta qutiga joylandi va nechta qalam ortib qoldi?

2) 173 ta kitob 32 tadan qilib kitob javonlariga taxlandi. Nechta javon kitoblar bilan to'ldi va nechta kitob ortib qoldi?

288. Qoldiqli bo'lishni bajaring:

178:22	125:16	352:43	218:43
190:31	213:24	105:32	77:23
97:15	105:14	96:25	476:52
129:13	88:42	312:34	106:17

289. 1) 156:12 bo'lish amalini bajaring:

Misolni quyidagidek yozamiz:

$$\begin{array}{r|l} 15\overline{)6} & 12 \\ \underline{12} & 13 \\ \hline 36 & \\ \underline{36} & \\ \hline 0 & \end{array}$$

Tekshirish:

$$\begin{array}{r} \times 13 \\ \hline 12 \\ + 26 \\ \hline 13 \\ \hline 156 \end{array}$$

Bo'lishni tushuntiring:

- 1) **birinchi to'liqsiz bo'linuvchini** ajratamiz (15 ta o'nlik.), bo'linmadagi raqamlar sonini aniqlaymiz;
- 2) bo'linmadagi **birinchi raqamni** olamiz (1) va bo'luvchini shu songa ko'paytiramiz: $12 \cdot 1 = 12$, qoldiqni topamiz;
- 3) bo'linuvchidagi keyingi raqamni (6) olib, **ikkinchi to'liqsiz bo'linuvchini** (36) hosil qilamiz;
- 4) bo'linmaning **ikkinchi raqamini** (3) olamiz, ko'paytirib $12 \cdot 3 = 36$, qoldiqni topamiz;
- 5) qoldiq yo'q, demak **bo'lish yakunlandi**;
- 6) **tekshirishni bajaramiz.**

2) Bo'lishni tushuntirish bilan bajaring:

$$165:11 \quad 736:32 \quad 294:21 \quad 688:43$$

3) Bo'linmani toping va tekshiring:

156:12	210:15	483:21	336:14	416:13
195:13	286:22	672:32	902:41	744:24

290. Bo'linmadagi raqamlar sonini aniqlab, bo'lishni bajaring:

325:13	168:42	144:24	630:15
180:12	552:23	544:16	184:23
483:21	96:32	91:13	832:52
150:25	84:14	105:35	287:41

291. Maktab bog'iga har bir qatorga 24 tadan 96 tup olma ko'chati ekildi. Maktab bog'ida olma ko'chati ekilgan qatorlar nechta?

292. Maktab spartakiadasida 68 ta yuqori sinf o'quvchilari har birida 17 tadan o'quvchi bo'lgan jamoalarga bo'linishdi. Spartakiadada hammasi bo'lib nechta jamoa ishtirok etdi?

293. Duradgor bir kunda 8 ta, uning shogirdi esa undan 2 marta kam deraza romlari yasaydi. Ular birgalikda 420 ta rom yasashlari uchun necha kun kerak bo'ladi?

294. 1) Namunalarga qarang. Bo'linuvchidagi raqamlar soni nechta? Bo'linmalardagi raqamlar soni nega har xilligini tushuntiring:

$$\begin{array}{r|l} 2568 & 12 \\ \hline 24 & 214 \\ \hline 16 & \\ -12 & \\ \hline 48 & \\ -48 & \\ \hline 0 & \end{array}$$

$$\begin{array}{r|l} 1440 & 32 \\ \hline 128 & 45 \\ \hline 160 & \\ -160 & \\ \hline 0 & \end{array}$$

2) Bo'lishni tushuntirish bilan bajaring:

9288:43	1188:22	1032:24	4902:43
4152:12	1056:22	3406:26	2193:51
3128:23	1476:41	6875:11	1485:33
4774:14	2709:43	1540:44	1148:82

295. Yuk tashuvchi poyezd 45 km/soat tezlik bilan 1530 km, yo'lovchi poyezd esa 71 km/soat tezlik bilan 1175 km yo'l yurdi. Qaysi poyezd ko'proq va qancha vaqt ko'proq yo'lda bo'lgan?

296. Misollarni yeching va bo'lishni ko'paytirish bilan tekshiring:

$8550:25$	$4208:16$	$1113:21$	$9870:42$
$6045:13$	$8424:52$	$1095:15$	$4320:32$
$1472:23$	$1242:23$	$2952:24$	$2665:41$
$4844:14$	$2508:12$	$4095:13$	$1504:32$

297. Daladan 1056 sr karam yig'ib olinib, 22 ta mashinaga teng miqdorda ortildi. 3 ta mashinadagi karam magazinlarga, qolgani esa sabzavot omboriga jo'natildi. Sabzavot omboriga necha sentner karam jo'natildi?

298. 1) Namunalarga qarang. Bo'linuvchidagi raqamlar sonini aniqlang:

$\underline{\quad} 28'980$	$\overline{12}$
$\underline{\quad} 24$	$\overline{2415}$
$\quad \underline{\quad} 49$	
$\quad \quad \underline{\quad} 48$	
$\quad \quad \quad \underline{\quad} 18$	
$\quad \quad \quad \quad \underline{\quad} 12$	
$\quad \quad \quad \quad \quad \underline{\quad} 60$	
$\quad \quad \quad \quad \quad \quad \underline{\quad} 60$	
$\quad \quad \quad \quad \quad \quad \quad \underline{\quad} 0$	

$\underline{\quad} 140'91$	$\overline{33}$
$\underline{\quad} 132$	$\overline{427}$
$\quad \underline{\quad} 89$	
$\quad \quad \underline{\quad} 66$	
$\quad \quad \quad \underline{\quad} 231$	
$\quad \quad \quad \quad \underline{\quad} 231$	
$\quad \quad \quad \quad \quad \underline{\quad} 0$	

2) Misollarni yeching, ko'paytirish bilan tekshiring:

11 172:21	62040:15	44044:14	33550:25
53989:13	50594:41	71796:31	10974:31
60384:24	11040:32	50594:41	21250:34
34562:11	10875:25	58352:16	68838:11

299. Savolni davom ettiring va masalani yeching.

Bosmaxona 7196 ta katak daftar, undan 14 marta kam bir chiziq daftar, bir chiziq daftardan 79 ta kam bloknot bosib chiqardi. Bosmaxona qancha ... ?

300. 1) Namunalarga qarang. Yechilishini tushuntiring:

$$\begin{array}{r|l} 70'20 & 26 \\ - 52 & \underline{270} \\ \hline 182 & \dots \\ - 182 & \\ \hline 0 & \end{array}$$

$$\begin{array}{r|l} 44'200 & 26 \\ - 26 & \underline{1700} \\ \hline 182 & \dots \\ - 182 & \\ \hline 0 & \end{array}$$

2) Misollarni yeching:

900:15	89600:28	6900:23	72000:18
6120:18	8910:11	54740:34	94300:41
6750:25	3780:14	94000:47	62370:27

301. Tushlikkacha do'konda 10 ta bir xil futbolka, tushlikdan keyin esa 8 ta futbolka sotildi. Futbolklar hammasi bo'lib 72000 so'mga sotilgan bo'lsa, bitta futbolkaning bahosi necha so'm?

302. Bo'linmani toping. Ko'paytirish bilan tekshiring:

8019:11	83700:27	21600:25
1512:42	12900:43	12800:32
1482:38	96000:32	21600:36
6440:14	78000:26	14700:21

303. 1) Namunalarga qarang. Yechilishini tushuntiring:

$$\begin{array}{r|l} 36\overline{)72} & 12 \\ \underline{36} & \underline{306} \\ 7 & \\ \underline{0} & \\ 72 & \\ \underline{72} & \\ 0 & \end{array}$$

$$\begin{array}{r|l} 47\overline{)173} & 23 \\ \underline{46} & \underline{2051} \\ 11 & \\ \underline{0} & \\ 117 & \\ \underline{115} & \\ 23 & \\ \underline{23} & \\ 0 & \end{array}$$

2) Bo'lishni bajarib, ko'paytirish bilan tekshiring:

4284:14	4346:41	17710:35	48708:27
6355:31	6024:12	27189:27	52208:52
7344:24	7695:15	72216:36	44460:12
5712:14	9246:23	64080:16	47173:23

304. Bo'linmani toping va bo'linmada nechta raqam bo'lishini aniqlang:

5236:17	49728:24	25590:15	22050:35
4824:24	35334:39	56042:14	19605:15
8208:27	19968:96	33696:24	26220:46
7600:25	84042:21	33473:17	27108:27

305. Omborga 25560 ta banka tomat sharbati, undan 15 marta kam olma sharbati olib kelindi. Tomat sharbatining $\frac{1}{3}$ qismi va olma sharbatining $\frac{1}{4}$ qismi sotildi? Olma sharbatidan necha marta ortiq banka tomat sharbati sotildi?

306. Misollarni yeching, javoblardan mosini toping:

$$\begin{array}{|l|l|l|l|} \hline 14232:24 & 56098:14 & 60150:25 & 75478:26 \\ \hline 69084:76 & 70471:19 & 36233:19 & 13608:27 \\ \hline \end{array}$$

Javoblar: 2406, 1907, 593, 909, 504, 4007, 3709, 2903.

307. Bo'lishni bajaring, ko'paytirish bilan tekshiring:

$$\begin{array}{|l|l|l|l|} \hline 7980:76 & 5535:27 & 2717:19 & 3690:18 \\ \hline 7276:34 & 2430:81 & 9894:97 & 7918:37 \\ \hline 6552:28 & 5356:26 & 7440:12 & 7236:12 \\ \hline \end{array}$$

308. 21300 ta tuxum 30 tadan qutilarga joylandi. Tuxumlar terilgan qutilarning $\frac{1}{5}$ qismi do'konga sotish uchun jo'natildi. Do'konda nechta tuxum sotildi?

309. Do'konga bir xil narxdagi 12 ta o'g'il bolalar va 5 ta qizlar ko'ylagi uchun 91800 so'm to'landi. Bitta ko'ylakning narxini toping?

310. Amallarni misol shaklida yozing va yeching:

- 1) 34967 va 43657 sonlarining yig'indisini 26 marta kamaytiring;
- 2) 64590 va 15 sonlarining bo'linmasini 2 marta kamaytiring.

311. Jadval bo'yicha masala tuzib, yeching:

Mahsulot nomi	1 kg mahsulotning bahosi (so'm)	Miqdori (kg)	Qiymati (so'm)
shakar	1100	12	?
un	?	?	?
guruch	?	?	?

312. Xususiy xo'jalik 6970 dona pomidor ko'chati sotib olib, uni bir xil miqdorda 34 ta yashikka joylashtirdi. 15 ta yashik ko'chat issiqxonaga, qolganlari ochiq yerga ekildi. Ochiq yerga qancha ko'chat ekildi?

313. Misollar tuzing va yeching:

42728 va 24 ning
bo'linmasini

→ 1986 taga kamaytiring

8736 va 38184 ning
yig'indisini

→ 34 marta kamaytiring

15 va 1624 ning
ko'paytmasini

→ 42 marta kamaytiring

73044 va 983 ning
ayirmasini

→ 34 taga kamaytiring

314. Misollarni yeching:

$$45180 : 15 = 2849$$

$$46690 : 46 + 4002 \cdot 29$$

$$49728 : 24 + 18959$$

$$37520 : 35 \cdot 24$$

$$2803 \cdot 14 - 10560 : 15$$

$$25760 : 16 \cdot 31$$

315. Bir oyning ichida 47 ta traktor 45402 kg yonilg'i sarf qildi. Agar traktorlar o'rtacha bir xil miqdorda yonilg'i sarf qilishsa, 26 ta traktorga qancha yonilg'i kerak bo'ladi?

316. Misollarni yeching:

$$1230 \cdot 64 - 55430 : 46$$

$$84840 : 84 \cdot 26$$

$$704 \cdot 65 - 7865 + 297$$

$$29232 : 48 \cdot 19$$

$$640 \cdot 27 + 8720 - 0$$

$$14712 : 4 \cdot 0$$

317. Misol tuzib, yeching:

- 1) 85500 bilan 76 ning bo'linmasiga 608 bilan 9 ning ko'paytmasini qo'shing;
- 2) 29120 bilan 14 ning bo'linmasidan 22320 bilan 36 ning bo'linmasini ayiring;
- 3) 15007 bilan 998 ning yig'indisiga 703 bilan 37 ning bo'linmasini qo'shing;
- 4) 4003 bilan 24 ning ko'paytmasini 12 ga bo'ling.

318. 8 minutda dastgohda 6400 ta mix yasaladi. 24800 ta mix yasash uchun necha minut kerak bo'ladi?

319. Bolalar maktab bog'idan birinchi kuni 508 kg, ikkinchi kuni 398 kg olma yig'ib olishdi. Hamma olmalar 15 kg dan yashiklarga joylandi. Olmalar nechta yashikka joylandi va necha kilogramm olma ortib qoldi?

320. Qoldiqli bo'lish va uni tekshirish qanday bajarilganini ko'rib chiqing:

$\begin{array}{r} \underline{7628} \quad \quad 24 \\ \underline{72} \quad \quad 317 \\ \underline{42} \quad \quad \dots \\ \underline{24} \quad \quad \dots \\ \underline{188} \quad \quad \dots \\ \underline{168} \quad \quad \dots \\ \hline 20 \text{ qold.} \end{array}$	<p style="text-align: center;">Tekshirish.</p> $\begin{array}{r} 317 \\ \times 24 \\ \hline 1268 \\ + 634 \\ \hline 7608 \end{array}$ $\begin{array}{r} 7608 \\ + 20 \\ \hline 7628 \end{array}$
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

- 1) Bo'linmani bo'luvchiga ko'paytiramiz: $317 \cdot 24 = 7608$.
- 2) Chiqqan ko'paytmaga qoldiqni qo'shamiz va bo'linuvchini hosil qilamiz. $7608 + 20 = 7628$.

321. Qoldiqli bo'lishni bajaring va tekshiring:

1845:34	1405:22	1600:27
80426:17	1513:25	2460:61
5876:11	1820:36	2045:51
3190:13	7130:44	6100:42

322. Bo'linmani va qoldiqni toping:

11225:33	17346:51	84545:13
38546:31	12867:42	46990:23
14185:22	18750:52	76950:12
46880:15	47890:14	68860:17

323. 1) Ta'riflashni davom ettiring:

Ikki sonning bo'linmasidagi qoldiq har doim

2) 17, 19 va 23 sonlarini 3 ga bo'lishda hosil bo'lgan qoldiqlarni ayting.

324. Shirin makkajo'xori qalamchalari bir qutisining bahosi 120 so'm. 4 ta shunday qutining bahosi necha so'm bo'ladi. 1000 so'mga shunday qutilardan nechtasini sotib olsa bo'ladi va necha so'm ortib qoladi?

325. Bitta kitob jildining bahosi 42 so'm. 500 so'mga nechta kitob jildini sotib olish mumkin va bunda necha so'm ortib qoladi?

326. Agar senda ikkita 500 so'mlik bo'lsa, 45 so'mlik daftar jildidan nechtasini sotib olishing mumkin va bunda senga necha so'm qaytarishadi?

327. Misollarni yeching:

$$30010 - 43380 : 12 + 5936$$

$$34562 : 11 + 15675 : 25$$

$$5009 \cdot 18 - 71796 : 31$$

$$956 + 29056 - 51936 : 32$$

328. Poyezd 60 km/soat tezlik bilan 2880 km yo'lni bosib o'tdi. Poyezd qancha vaqt yo'lda bo'lgan?

329. Avtobus 10 soat ichida 520 km yo'lni bosib o'tdi. Avtobusning o'rtacha tezligi qancha?

330. Bo'linmani toping:

56000:16	27225:55	11094:86
84780:27	25032:42	9309:87
64500:43	28008:36	2809:53
23450:35	44950:62	2209:47

331. Amallarni bajaring:

$$2001:69 + 58884:84 \qquad 1088:68 + 57442:77$$
$$42275:(7004 - 6909) \qquad (1833:47 + 467) + 2506$$



MUSTAHKAMLASH UCHUN MASHQLAR

1. 12 ta qalam uchun 540 so'm to'landi. Bitta qalamning bahosi qancha?

2. Bo'linmani toping:

$$583:11 \qquad 210:35 \qquad 5170:22 \qquad 1075:25$$

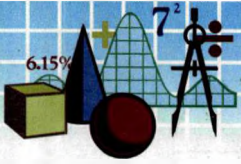
3. Do'konga tushlikkacha 26 ta va tushlikdan keyin yana shuncha pirojniy olib kelindi. Hamma pirojniyning bahosi 18720 so'm bo'lsa, bitta pirojniyning bahosi qancha?

4. Misollarni yeching:

$$29172:12 \qquad (51200 - 17530):14$$
$$80592:23 \qquad 1032:24 + 20328$$

5. Qoldiqli bo'lishni bajaring:

$$391:2 \qquad 176:20 \qquad 5876:11$$
$$9167:8 \qquad 2184:30 \qquad 2460:61$$



KASR SONLAR

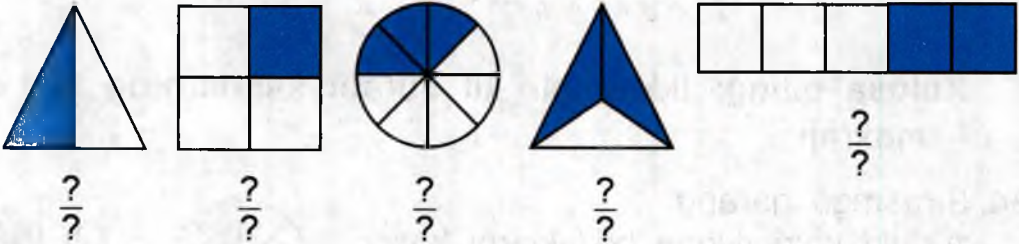
ODDIY KASRLAR (TAKRORLASH)

332. 1) Kasrlarni o'qing:

$$\frac{1}{4}, \frac{2}{3}, \frac{3}{8}, \frac{1}{2}, \frac{2}{5}$$

Ularning qanday hosil bo'lganini tushuntiring.

1-rasmga qarang. Unda qanday ulushlar tasvirlangan va nechta ulush ajratib ko'rsatilgan? Har bir shaklda ajratilgan ulushni kasr ko'rinishida ifodalab yozing:



1-rasm.

2) Kasr qanday hosil qilinadi? (Ta'rif bering).

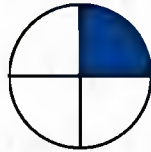
3) Kasr chizig'i ostidagi son qanday ataladi? Kasr chizig'ining ustidagi-chi?

4) O'zingiz yozgan har bir kasrning suratini ko'rsating va uning ahamiyatini tushuntiring.

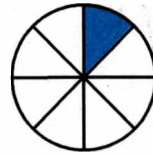
333. 1) 2-rasmga qarang.



$$\frac{1}{?}$$



$$\frac{1}{?}$$



$$\frac{1}{?}$$

2-rasm.

Kasrlar qanday hosil qilingan? Kasrlarni yozing. Kasr chizig'i ostidagi sonlarni ayting.

Xulosa qiling: kasrning maxraji qancha katta bo'lsa, ...

2) Kasrlarni $>$ yoki $<$ belgilari yordamida taqqoslang.

$$\frac{1}{2} \dots \frac{1}{8} \quad \frac{1}{4} \dots \frac{1}{2} \quad \frac{1}{4} \dots \frac{1}{8}$$

Xulosa qiling: ikkita bir xil suratli kasrlarning kattasi – maxraji ...

334. 3-rasmga qarang.

Ajratib ko'rsatilgan bo'laklarni kasr ko'rinishida yozing.

Kasrlarni taqqoslang.

Xulosa qiling: ikkita bir xil maxraji kasrdan surati ... kattadir.



$$\frac{?}{8}$$



$$\frac{?}{8}$$

3-rasm.

335. 1) Qanday kasrlarni bilasiz?

2) Kasrlarni o'qing: $\frac{3}{7}$, $1\frac{2}{5}$, $\frac{4}{3}$, $\frac{7}{2}$, $\frac{3}{3}$, $2\frac{17}{20}$, $\frac{5}{9}$.

3) Aralash sonlarni ajratib yozing: to'g'ri kasrlarni bir soni bilan va noto'g'ri kasrlarni bir soni bilan taqqoslang.

336. Kasrlarni taqqoslang, $>$, $<$, $=$ belgilaridan mosini qo'ying:

a) $\frac{3}{4} \dots \frac{1}{4}$ $\frac{8}{11} \dots \frac{5}{11}$ $\frac{1}{17} \dots \frac{1}{2}$ $\frac{4}{5} \dots \frac{4}{13}$

b) $1 \dots \frac{3}{5}$ $\frac{4}{4} \dots 1$ $\frac{7}{2} \dots 1$ $4\frac{3}{10} \dots 3\frac{3}{11}$ $\frac{8}{17} \dots 1\frac{3}{4}$

337. Maktabning barcha yettinchi sinflari hamma o'quvchilarning $\frac{1}{8}$ qismini tashkil qiladi. Agar maktabda hammasi bo'lib 192 ta o'quvchi o'qisa, yettinchi sinflarda nechta o'quvchi o'qiydi?

338. Pachkada 500 varaq qog'oz bor. Matn terishga bu qog'ozning $\frac{1}{5}$ qismi sarflandi. Necha varaq qog'oz ortib qoldi?

339. Sonlarni kasr ko'rinishida yozing:

a) beshdan ikki;

d) o'n beshdan o'n;

b) o'ndan yetti;

e) yuzdan yig'irma uch.

340. Maxraji 8 bo'lgan to'g'ri va noto'g'ri kasrlar tuzib, ularni taqqoslang.

341. $>$, $<$ belgilari yordamida kasrlarni taqqoslang:

$\frac{3}{10}$ va $\frac{7}{10}$; $\frac{1}{5}$ va $\frac{8}{6}$; $\frac{1}{4}$ va $\frac{1}{6}$; $\frac{1}{4}$ va $\frac{1}{7}$.



O'NLI KASRLAR

O'NLI KASRLARNING HOSIL BO'LISHI, YOZILISHI VA O'QILISHI

342. 1) Uzunlik o'lchov birliklarining ifodalanishini eslang:

a) 1 m necha detsimetrga tengligini yozing:

$$1 \text{ m} = \dots \text{ dm.}$$

1 dm 1 m ning qanday qismini tashkil qiladi?

$$1 \text{ dm} = \frac{1}{10} \text{ m.}$$

b) 1 m da necha santimetr bor?

$$1 \text{ m} = \dots \text{ sm.}$$

1 sm 1 m ning qanday qismini tashkil qiladi?

$$1 \text{ sm} = \frac{1}{?} \text{ m.}$$

d) 1 m da necha millimetr bor?

$$1 \text{ m} = \dots \text{ mm.}$$

1 mm 1 m ning qanday qismini tashkil qiladi?

$$1 \text{ mm} = \frac{1}{?} \text{ m.}$$

2) Yozib olgan kasrlaringizni o'qing.

Kasrlarning maxrajini ayting.



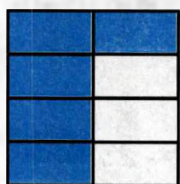
Maxraji 10, 100, 1000 sonlaridan tashkil topgan kasrlar **o'nli kasrlar** deb ataladi.

Masalan: $\frac{3}{10}$, $\frac{27}{100}$, $\frac{349}{1000}$.

343. Kasrlarni o'qing. Faqat o'nli kasrlarni yozib oling:

$$\frac{1}{30}, \frac{27}{120}, \frac{3}{100}, \frac{142}{2000}, \frac{1}{10}, \frac{7}{105}, \frac{19}{1000}, \frac{561}{9000}, \frac{33}{100}, \frac{9}{10}$$

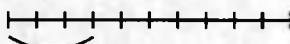
344. Har bir rasm tagidagi kasrni to'liq yozing. Ularning hosil bo'lishini tushuntiring. O'nli kasrlar tagiga chizing.



$$\frac{5}{?}$$



$$\frac{7}{?}$$



$$\frac{3}{?}$$



$$\frac{?}{?}$$

4-rasm.

345. Kasrlarni o'qing:

$$3\frac{1}{10}; 8\frac{17}{100}; 12\frac{3}{1000}; 6\frac{7}{10}; 1\frac{273}{1000}; 7\frac{11}{110}; 6\frac{37}{200}$$

Hamma kasrlar o'nli kasrga kiradimi? Nima uchun?

346. 1) O'nli kasrlarni sinflar va xonalar jadvaliga yozish mumkin. Bu jadvalda $7\frac{3}{10}$, $12\frac{37}{100}$, $41\frac{129}{1000}$ kasrlari yozilgan.

Butun qismi			Butunning ulushlari (kasr qismi)		
yuzlar	o'nlar	birlar	o'ndan birlar	yuzdan birlar	mingdan birlar
		7	3		
	1	2	3	7	
	4	1	1	2	9

2) Jadval tuzib, unga quyidagi kasrlarni yozing:

$$5\frac{7}{10}, 8\frac{31}{100}, 1\frac{3}{10}, 23\frac{609}{1000}, 7\frac{87}{100}, 4\frac{123}{100}.$$

Bu kasrlarni maxrajsiz yozsak ham bo'ladi. Avval butun son yozilib, so'ng kasr suratidagi son yoziladi. Bunda butun son kasrning suratidan vergul bilan ajratiladi.

$$5\frac{7}{10} = 5,7$$

$$8\frac{31}{100} = 8,31$$

$$23\frac{609}{1000} = 23,609$$

O'nli kasrlarni maxrajsiz yozing.

$$1\frac{3}{10} = \dots; 7\frac{87}{100} = \dots; 4\frac{123}{1000} = \dots$$

Agar kasrning maxrajida 10 raqami (bir va bitta nol) tursa, verguldan keyin bitta raqam (bitta belgi) bo'lishi kerak.

Agar kasrning maxrajida 100 raqami (bir va ikkita nol) tursa, verguldan keyin ikkita raqam (ikkita belgi) bo'lishi kerak.

Agar kasrning maxrajida 1000 raqami (bir va uchta nol) tursa, verguldan keyin uchta raqam (uchta belgi) bo'lishi kerak.



O'nli kasrda verguldan keyin maxrajda nechta nol bo'lsa, shuncha raqam bo'lishi kerak:

$$1,3; 7,87; 4,123.$$

347. Kasrni maxrajsiz yozing:

$$3\frac{9}{10}, 12\frac{321}{1000}, 63\frac{19}{100}, 5\frac{307}{1000}, 25\frac{7}{10}, 9\frac{89}{100}.$$

Verguldan keyin kelgan belgilar va maxrajidagi nollar sonini solishtiring. O'ndan bir, yuzdan bir, mingdan bir ulushlar verguldan keyin nechanchi o'rinda yozilgan?



O'nli kasrlarni o'qishda avval butun son, keyin ulushlar o'qiladi.

Masalan: 1,3 – bir **butun o'ndan** uch;

25,61 – yigirma besh **butun yuzdan** oltmish bir;

9,137 – to'qqiz **butun mingdan** bir yuz o'ttiz yetti.

O'nli kasrlarni o'qishda quyidagilarni aniqlash zarur:

1) verguldan keyin kelgan raqamlar sonini;

2) kasrning maxrajini;

3) ulushlarni.

Masalan: 1) $3,162$ kasrini o'qing.

Verguldan keyin uchta raqam turibdi, demak kasrning maxraji **1000**, mingdan bir ulush.

Kasr quyidagicha o'qiladi: uch butun **mingdan** bir yuz oltmish ikki;

2) o'nli kasrni o'qing: $1,7$.

Verguldan keyin bitta raqam turibdi, demak maxraj **o'ndan** bir ulush.

Kasrni o'qiyviz: bir butun o'ndan yetti.

3) Kasrni o'qing: $\boxed{2,13}$.

Verguldan keyin ... ta raqam turibdi, demak, maxraj ... , ulush... .

Kasrni o'qiyviz: ikki butun .. dan o'n uch.

348. Kasrlarni o'qing:

7,9; 12,403; 9,67; 25,3; 1,417; 32,16.

349. 1) Jadvalga qarang. $\frac{3}{10}$, $\frac{21}{100}$, $\frac{327}{1000}$ kasrlari yozilgan:

Butun qismi			Kasr qismi		
yuzlar	o'nlar	birlar	o'ndan birlar	yuzdan birlar	mingdan birlar
			3		
			2	1	
			3	2	7

Kasrlarning butun qismi bormi?

Agar o'nli kasrlarning butun qismi bo'lmasa, butun son o'rnida nol yoziladi. O'qilganda esa «nol butun» deb o'qiladi.

Masalan:

$$\frac{3}{10} = 0,3 \text{ (nol butun o'ndan uch);}$$

$$\frac{21}{100} = 0,21 \text{ (nol butun yuzdan yigirma bir);}$$

$$\frac{327}{1000} = 0,327 \text{ (nol butun mingdan uch yuz yigirma yetti).}$$

2) Jadval tuzing va $\frac{9}{10}$, $\frac{18}{100}$, $\frac{307}{1000}$, $\frac{29}{100}$, $\frac{1}{10}$ kasrlarini yozing.

3) Bu kasrlarni maxrajsiz yozib, o'qing.

350. Kasrlarni maxrajsiz yozib, o'qing.

$$\frac{81}{100}; \quad 3\frac{5}{10}; \quad 16\frac{123}{1000}; \quad \frac{37}{100}; \quad \frac{843}{1000}; \quad 1\frac{3}{10}.$$

351. O'nli kasrlarning xona birliklari jadvalini ko'rib chiqing.

Jadvalga $8\frac{9}{100}$; $\frac{3}{1000}$ kasrlarini yozing:

Butun qismi			Kasr qismi		
yuzlar	o'nlar	birlar	o'ndan birlar	yuzdan birlar	mingdan birlar
		8		9	
					3

Har bir holatdagi o'nli kasrlarning kasr qismidagi mavjud bo'lmagan xona birligi qaysi? O'nli kasrlarni yozishda kasr qismidagi mavjud bo'lmagan xona birligi o'rniga nol yoziladi: **8,09**; **0,003**.

1) 8,09 kasrini o'qiymiz – sakkiz butun yuzdan to'qqiz kasrida ... bir ulush mavjud emas.

2) 0,003 kasrini o'qiymiz – nol butun mingdan uch kasrida bir ulush mavjud emas.

Nima uchun kasrlarda nol yoziladi?



O'nli kasrlarda 0 raqamining yozilishi ma'lum bir xona birligining mavjud emasligini bildiradi.

352. O'qli kasrlarni maxrajsiz yozing:

$5\frac{3}{10}$	$\frac{21}{100}$	$5\frac{7}{100}$	$1\frac{213}{1000}$	$\frac{6}{1000}$	$\frac{29}{1000}$	$\frac{1}{10}$	$3\frac{1}{100}$

Verguldan keyingi raqamlar sonini ayting.

353. O'qli kasrlarni namunadagidek kasr ko'inishida yozing:

3,17	0,6	1,183	0,07	9,13	11,7	8,106	5,009
$3\frac{17}{100}$							

354. Sonlarni o'qli kasr ko'inishida yozing:

- 1) ikki butun o'ndan olti;
- 2) nol butun mingdan uch;
- 3) nol butun mingdan o'n uch;
- 4) besh butun yuzdan o'n uch.

Verguldan keyin nechta raqam yozilgan? Nima uchun?

355. Maxraji 10, 100, 1000 bo'lgan kasrlarni toping va bu kasrlarni maxrajsiz yozing. Bunday kasrlar qanday nomlanadi?

356. Sonlarni namunadagidek yozing:

3,016	–	3 butun mingdan 16	0,009	–
0,29	–		1,09	–
10,7	–		2,9	--

357. Sonlarni namunadagidek o'nli kasr ko'rinishida yozing:

nol butun yuzdan 3 – 0,03 12 butun yuzdan 32 –
6 butun o'ndan 3 – nol butun mingdan 32 –
nol butun mingdan 3 – 7 butun mingdan 169 –

Kasrlarda verguldan keyin nechta raqam kelgan va nima uchun?

358. O'nli kasrlarni o'qing va namunadagidek maxraji bilan yozing: $3,06 = 3\frac{6}{100}$

0,12; 1,006; 3,7; 18,09; 0,01; 0,013.

Verguldan keyingi raqamlar sonini maxrajidagi nollar soni bilan taqqoslang.

359. *Mustaqil ish.*

1) O'nli kasrlarni aytib turib yozdiring.

2) Kasrlarni maxrajsiz yozing: $\frac{7}{10}$; $\frac{15}{100}$; $\frac{175}{1000}$; $\frac{4}{100}$; $\frac{27}{1000}$;
 $\frac{9}{1000}$.

3) Kasrlarni oddiy kasr ko'rinishida yozing: 0,6; 7,14;
8,126; 15,03; 15,078; 42,105.

4) Har bir o'nli kasrdagi nolning ahamiyatini tushuntiring:
0,5; 3,03; 35,30; 7,013; 0,008; 0,105.

5) 42,7; 11,75; 36,056 sonlarida birliklar soni, o'ndan bir,
yuzdan bir, mingdan bir ulushlar nechta?

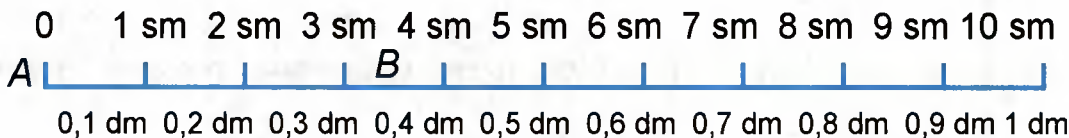
O'nli kasrlarni xona birliklari jadvaliga yozing.

O'NLI KASRLARNING YIRIKROQ (MAYDAROQ), BIR XIL ULUSHLARDA IFODALANISHI

Sonlar necha ulushda ifodalangan?

$$1 \text{ dm} = 10 \text{ sm} \quad 1 \text{ dm} = 100 \text{ mm} \quad 1 \text{ dm} = 10 \text{ sm} = 100 \text{ mm}$$

$$1 \text{ sm} = \frac{1}{10} \text{ dm} \quad 1 \text{ mm} = \frac{1}{100} \text{ dm}$$



5-rasm

AB kesmaning uzunligi 3 sm (5-rasm). U 1 detsimetrning $\frac{3}{10}$ bo'lagini tashkil qiladi. Lekin $3 \text{ sm} = 30 \text{ mm}$, $1 \text{ mm} = \frac{1}{100} \text{ dm}$ bo'lgani uchun kesmaning uzunligi $\frac{30}{100} \text{ dm}$. $\frac{3}{10} = \frac{30}{100}$. O'nli kasrda ifodalasak, $0,3 = 0,30$. $AB = 0,3 \text{ dm} = 0,30 \text{ dm}$ bo'lgani uchun AB kesmaning uzunligi o'zgarmagan.



O'nli kasrning kasr qismi oxiriga nol qo'shilsa, kasrning qiymati o'zgarmaydi:

$$0,3 = 0,30 = 0,300$$

360. Oddiy kasr ko'rinishida yozing:

$$\frac{3}{10}; \quad \frac{30}{100}; \quad \frac{300}{1000}$$

361. $\frac{30}{100}$ va $\frac{300}{1000}$ kasrlarini yirikroq ulushlarda ifodalash (qisqartirish), ya'ni kasrning surati va maxrajini bir xil songa bo'lish mumkin.

$$\frac{30}{100} = \frac{3}{10}; \quad \frac{300}{1000} = \frac{3}{10}.$$

Demak, $\frac{3}{10}$, $\frac{30}{100}$, $\frac{300}{1000}$ kasrlari o'zaro teng.

Shuning uchun $0,3 = 0,30 = 0,300$.



O'nli kasrning kasr qismi oxiriga nollar yozib qo'yilsa yoki tashlab yuborilsa, uning qiymati o'zgarmaydi.

Agar o'nli kasr oxiridagi bitta nol olib tashlansa, 10 ga qisqaradi (agar ikkita nol olib tashlansa kasr 100 ga qisqaradi).

$$1\frac{70}{100} = 1\frac{7}{10} = 1,7 \quad 4,500 = 4,5 \quad 2,010 = 2,01$$

362. Metrni o'nli kasrlarda ifodalang: 0,3 m va 0,30 m.

Taqqoslang:

$0,3 \text{ m} = 3 \text{ dm}$ $0,30 \text{ m} = 30 \text{ sm}$ $3 \text{ dm} = 30 \text{ sm}$,
demak, $0,3 \text{ m} = 0,30 \text{ m}$.

363. O'nli kasrlarni yirikroq ulushlarda ifodalang. Kasrlarning qisqartirishdan oldingi va qisqartirishdan keyingi maxrajlarini ayting:

$2,800 = 2,8$

$5,040 =$

$3,50 \text{ m} =$

$0,60 =$

$8,30 =$

$2,120 \text{ kg} =$

$1,110 =$

$6,020 =$

$8,300 \text{ t} =$

O'qli kasrlarni yirikroq ulushlarda ifodalash uchun o'qli ulushlar oxiridagi nollarni tushirib qoldirish kerak.

364. O'qli kasrlarni kichikroq ulushlarda ifodalang:

a) yuzdan bir ulushlarda b) mingdan bir ulushlarda

$0,3 = 030$	$4,9 \text{ m} =$	$3,12 = 3,120$	$10,32 \text{ kg} =$
$1,7 =$	$18,2 \text{ dm} =$	$6,07 =$	$8,5 \text{ t} =$
$80,6 =$	$9,4 \text{ s} =$	$6,3 =$	$43,90 \text{ km} =$

O'qli kasrlarni kichikroq ulushlarda ifodalash uchun o'qli ulushlar oxiriga nollarni qo'shib qo'yish kerak.

365. O'qli kasrlarni:

a) yirikroq ulushlarda;

b) maydaroq ulushlarda ifodalang:

$12,010$	$0,070$	$3,2$	$3,07$
$70,800$	$15,700$	$0,41$	$0,2$
$3,40$	$8,650$	$16,8$	$26,18$

366. Kasrlarni bir xil ulushlarda ifodalang (umumiy maxrajga keltiring): $0,3$ va $0,46$.

$\frac{3}{10}$ va $\frac{46}{100}$ kasrlarining maxrajlarini taqqoslaymiz.

Maxrajlarni bir xil ulushlarda ifodalash uchun $\frac{3}{10}$ kasriga o'ngdan bitta nol qo'shib, yuzdan bir ulushlarda ifodalash kerak. $0,3$ kasri o'zgarmasa ham, ulushlar kamaydi. Endi

kasrlar bir xil ulushda ifodalandi: $0,30$ va $0,46$, $\frac{30}{100}$ va $\frac{46}{100}$.

367. Kasrlarni bir xil ulushlarda ifodalang:

4,3 va 0,16	1,26 va 8,183	8,2 va 7,001
21,07 va 35,9	0,075 va 3,07	6,093 va 9,4



Har qanday butun sonni verguldan keyin istalgancha nollar qo'yib, o'nli kasr ko'rinishida yozish mumkin:

$$3 = 3,0 = 3,00 = 3,000.$$

368. Ustunlardagi sonlarni shu sonlarga teng bir xil maxrajli kasr ko'rinishida yozing:

6,13	1,032	3	34,21	5,63	8,009
0,9	5,67	0,2	2,9	10	1,9
15,278	0,7	6,103	0,3	3,2	0,32

369. Har bir ustundagi o'zaro teng kasrlarni ajratib yozing:

6,007	8,100	4,5	0,160	30,7
6,07	8,010	4,005	0,016	30,007
6,070	8,1	4,500	0,16	30,07
6,7	8,001	4,050	0,1600	30,70

O'NLI KASRLARNI TAQQOSLASH

370. 1) 1,15 m va 3,5 m o'nli kasrlarni taqqoslang.

Oldin kasrlarning butun qismlarini taqqoslaymiz: $1 < 3$.

Demak, $3,5 \text{ m} > 1,15 \text{ m}$.



Ikkita o'nli kasrdan qaysi birining butun qismi katta bo'lsa, o'sha kasr katta hisoblanadi.

2) $>$ yoki $<$ belgilari yordamida o'qli kasrlarni taqqoslang:

1,5 dm ... 0,5 dm 6,2 sm ... 0,9 sm

5,2 dm ... 3,8 dm 25,7 sm ... 16,8 sm

Har bir juftlikni metrlarda ifodalab, kasrlarni taqqoslang.

371. O'qli kasrlarni taqqoslang:

a) 5,3 ... 1,18 1,219 ... 5,1 8,015 ... 9,1

20,6 ... 7,986 4,8 ... 0,396 3,12 ... 31,2

b) 5,325 t ... 2,003 t 50,63 so'm ... 56,95 so'm

80,15 m ... 81,5 m 12,3 sm ... 9,9 sm

372. Bo'sh kataklarga qanday raqam qo'yilsa, tengsizlik to'g'ri bo'ladi?

3,5 $>$ \square 6,327 $>$ \square $\square <$ 3,7 $\square <$ 3,003

1,72 $>$ \square 0,92 $<$ \square $\square >$ 0,159 $\square >$ 15,2

373. O'qli kasrlarni tartib asosida yozing:

Ortib borish tartibida	Kamayib borish tartibida
3,4; 0,9; 5,7; 1,66	7,3; 0,827; 3,69; 11,3
1,93; 5,96; 8,09; 0,78	3,15; 0,88; 10,4; 1,04
5,123; 7,1; 8,009; 10,12	15,6; 3,98; 39,7; 0,999

374. 5,7 va 5,2 o'qli kasrlarini taqqoslang:

1) kasrlarning butun qismini taqqoslaymiz: $5 = 5$;

2) kasrlarning o'ndan bir ulushlarini taqqoslaymiz: $\frac{7}{10} > \frac{2}{10}$.



Butun qismlari o'zaro teng bo'lgan ikkita o'qli kasrdan qaysi birining o'ndan birlar xonasidagi raqami katta bo'lsa, shu kasr kattadir.

375. $>$ va $<$ belgilarini qo'ying, o'nli kasrlarni taqqoslang:

$$\begin{array}{lll} 0,7 \dots 0,2 & 18,72 \dots 18,69 & 0,563 \dots 0,728 \\ 5,3 \dots 5,9 & 10,25 \dots 10,47 & 1,405 \dots 1,099 \end{array}$$

376. O'ndan bir ulushlarni shunday qo'yingki, tengsizlik to'g'ri bo'lsin.

$$\begin{array}{lll} 3,7 > 3, \square & 0,63 < 1, \square 2 & 3, \square < 3,9 \\ 12,8 < 12, \square & 25,34 < 25, \square 8 & 0, \square 3 > 0,245 \end{array}$$

377. 3,15 va 3,12 o'nli kasrlarini taqqoslang:

- 1) kasrlarning butun qismini taqqoslaymiz: $3 = 3$;
- 2) kasrlarning o'ndan bir ulushlarini taqqoslaymiz;
- 3) yuzdan bir ulushlarni taqqoslaymiz: $\frac{5}{100} > \frac{2}{100}$.

Demak, $3,15 > 3,12$.



Butun qismlari, o'ndan bir ulushlari teng bo'lgan ikkita o'nli kasrdan qaysi birining yuzdan bir ulushlaridagi raqami katta bo'lsa, o'sha kasr kattadir.

378. $>$ va $<$ belgilari yordamida o'nli kasrlarni taqqoslang:

$$\begin{array}{lll} 3,07 \dots 3,01 & 8,36 \dots 8,39 & 17,278 \dots 17,209 \\ 15,68 \dots 15,79 & 0,08 \dots 0,07 & 0,009 \dots 0,012 \end{array}$$

379. Kasrlarni ajratib yozing:

- a) kamayib borish tartibida b) ortib borish tartibida
- 6,24; 6,28; 6,21; 6,27 0,287; 0,239; 0,201; 0,251

380. 6,248 va 6,241 kasrlarini taqqoslang:

- 1) kasrlarning butun qismini taqqoslaymiz: ular teng;

- 2) berilgan kasrlarning o'ndan bir ulushlarini taqqoslaymiz, ular ham teng;
- 3) yuzdan bir ulushlarni taqqoslaymiz, ular teng;
- 4) mingdan bir ulushlarni taqqoslaymiz: $\frac{8}{1000} > \frac{1}{1000}$.

Demak, $6,248 > 6,241$.



O'nli kasrlarning butun qismlari, o'ndan bir ulushlari va yuzdan bir ulushlari ham teng bo'lsa, ... bir ulushi katta bo'lgan kasr kattadir.

381. Kasrlarni taqqoslang:

8,136 ... 8,132		0,009 ... 0,003		6,214 ... 6,218
16,215 ... 16,219		1,108 ... 1,109		5,038 ... 5,034

382. Har bir ustundagi o'nli kasrlarni bir xil ulushda ifodalang (umumiy maxrajga keltiring):

3,2	5,068	0,63	12,72
8,12	12,4	9,204	9,9

383. O'nli kasrlarni bir xil ulushda ifodalab, teng juftlikni toping: 3,07; 3,7; 3,710; 3,700.

384. 0,24 va 0,098 kasrlarini taqqoslang:

Har xil maxrajli o'nli kasrlarni umumiy maxrajga keltirib, bir xil ulushda ifodalash lozim:

$$0,240 > 0,098.$$

385. O'nli kasrlarni taqqoslang:

$$\begin{array}{ccc|ccc|ccc} 2,7 & \dots & 2,12 & & 6,327 & \dots & 6,299 & & 6,32 & \dots & 6,286 \\ 15,72 & \dots & 15,9 & & 0,18 & \dots & 0,5 & & 1,009 & \dots & 1,09 \end{array}$$

386. $>$, $<$ yoki $=$ belgilarini qo'ying:

$$\begin{array}{ccc|ccc|ccc} 6,008 & \dots & 6,8 & & 0,9 & \dots & 0,90 & & 2,300 & \dots & 2,3 \\ 13,01 & \dots & 13,1 & & 3,5 & \dots & 3,050 & & 0,03 & \dots & 0,003 \end{array}$$

387. Bo'sh kataklar o'rniga shunday son qo'yingki, tengsizlik to'g'ri bo'lsin:

$$\begin{array}{ccc|ccc|ccc} 2,362 & > & \square, 362 & & \square 1,6 & > & 28,93 & & 1,227 & < & 1,22 \square \\ 0, \square 27 & < & 0,327 & & 5,7 \square & < & 5,74 & & 5,7 \square 3 & > & 5,723 \end{array}$$

388. O'nli kasrlarni taqqoslang:

$$\begin{array}{ccc} 1,3 \text{ m} \dots 1,15 \text{ m} & & 8,164 \text{ km} \dots 8,2 \text{ km} \\ 3,6 \text{ kg} \dots 3,006 \text{ kg} & & 31,92 \text{ t} \dots 3,192 \text{ t} \\ 1,5 \text{ m} \dots 1,50 \text{ m} & & 2,81 \text{ sr} \dots 2,4 \text{ sr} \end{array}$$

389. Kasrlarni ortib borish tartibida yozing:

$$2,3; 2,35; 2,11; 2,5; 2,09.$$

390. Kasrlarni kamayib borish tartibida yozing:

$$0,71; 0,03; 0,8; 0,12; 0,3.$$

391. O'nli kasrlarni kamayib borish tartibida yozing:

$$\text{a) } 13,4; 13,2; 13,1; 13,9 \qquad \text{b) } 0,13; 0,07; 0,2; 0,65.$$

392. O'nli kasrlarni ortib borish tartibida yozing:

$$\text{a) } 3,8; 3,1; 3,15; 13,9 \qquad \text{b) } 6,17; 6,07; 6,71; 6,7.$$

393. Misollarni yeching.

$$\begin{array}{cc} 30004 - 18697 + 4549 & 26407 + (12010 - 5639) \\ 90000 - (3247 + 18063) & 8409 + 24097 - 18609 \end{array}$$



O'NLI KASRLARNI QO'SHISH VA AYIRISH

394. O'nli kasrlarda qo'shish va ayirish qanday bajarilganiga ahamiyat bering. Butun sonlarni qo'shish va ayirishdan nimasi bilan farq qilishini ayting. Namunadagi misollarning farqi va o'xshash tomonlari nimada?

$$\begin{array}{r} + 125 \\ + 364 \\ \hline 489 \end{array} \quad \begin{array}{r} + 1,25 \\ + 3,64 \\ \hline 4,89 \end{array}$$

$$\begin{array}{r} - 864 \\ - 321 \\ \hline 543 \end{array} \quad \begin{array}{r} - 8,64 \\ - 3,21 \\ \hline 5,43 \end{array}$$



O'nli kasrlarni qo'shish yoki ayirish uchun:

- 1) Sonlar ustun qilib yoziladi (bunda kasrning butun qismi tagiga butun qism, o'ndan bir ulush tagiga o'ndan bir ulush, yuzdan bir ulush tagiga yuzdan bir ulush, mingdan bir ulush tagiga mingdan bir ulush yoziladi);
- 2) hisoblash xuddi butun sonlardagi kabi bajariladi;
- 3) hosil bo'lgan natijada butun son vergul bilan ajratiladi.

395. Butun sonlarni o'nli kasrlarga (og'zaki) qo'shing:

$3 + 0,5$

$4 + 0,13$

$15 + 1,367$

$3,2 + 7$

$6,3 + 4$

$0,17 + 8$

$1,251 + 4$

$4,07 + 3$

$8 + 1,32$

$3,006 + 6$

$4,7 + 2$

$6 + 4,003$

396. Misollarni og'zaki yeching:

$7,5 - 4$

$17,326 - 13$

$0,14 + 1,25$

$12,07 - 7$

$0,3 + 0,4$

$3,42 - 1,31$

$6,38 - 3$

$7,4 - 1,3$

$3,124 + 7,835$

397. Misollarni yeching:

$3,4 + 2,5$

$71,5 + 8,3$

$8,9 - 2,3$

$15,6 - 4,5$

$6,75 + 3,21$

$20,31 + 8,46$

$9,78 - 4,53$

$7,16 - 0,04$

$3,175 + 12,032$

$8,306 + 0,423$

$9,836 - 8,705$

$25,037 - 14,006$

398. 3,5 m qizil tasma va undan 2,5 m ortiq ko'k tasma sotib olindi. Necha metr ko'k tasma sotib olingan?

399. Namunalarga qarang. Kasrlarni qisqartirganda nima o'zgaryapti? Misollarni yeching:

$$\begin{array}{r} 13,5 \\ + 2,5 \\ \hline 16,0 \\ 16 \end{array}$$

$$\begin{array}{r} \overset{\cdot}{6},032 \\ - 2,732 \\ \hline 3,300 \\ 3,3 \end{array}$$

$34,7 + 5,3$

$16,32 + 21,08$

$3,485 + 5,745$

$6,49 + 14,81$

$13,7 - 7,7$

$8,63 - 4,53$

$0,201 - 0,041$

$12,406 - 9,596$

400. Bidonda 4,8 l sut bor edi. Undan 2,3 l sutni suzib olishdi. Bidonda necha litr sut qoldi?

401. Qisqa shart tuzib, masalani yeching:

		I - 24,3 m	←
Bor edi		II - 3,8 m ga kam	→
76,5 m		Qoldi - ? m	

402. Har bir ustundagi sonlarni ularga teng bir xil maxrajli o'qli kasrlar bilan almashtiring:

$3,06$

$0,637$

5

$3,12$

$0,37$

$0,003$

$12,7$

$9,32$

$0,8$

$15,6$

28

$3,6$

$5,241$

$1,7$

$0,132$

$3,008$

$5,6$

$3,73$

403. 1) Har xil maxrajli o'nli kasrlarda qo'shish va ayirish qanday bajarilganiga e'tibor bering:

$$0,63 + 4,5$$

$$\begin{array}{r} + 0,63 \\ 4,50 \\ \hline 5,13 \end{array}$$

$$12,7 + 1,036$$

$$\begin{array}{r} 12,700 \\ - 1,036 \\ \hline 11,664 \end{array}$$



Har xil maxrajli o'nli kasrlarni qo'shish yoki ayirish uchun:

- 1) kasrlarni umumiy maxrajga keltirish (bir ulushda ifodalash);
- 2) amalni yechish kerak.

$$2) 2,72 + 1,9$$

$$6,8 + 0,28$$

$$102,3 + 9,67$$

$$9,04 + 12,163$$

$$0,28 + 6,9$$

$$15,09 + 9,234$$

$$10,3 + 9,7$$

$$0,13 + 17,9$$

$$5,12 - 3,7$$

$$16,023 - 9,102$$

$$0,901 - 0,06$$

$$3,7 - 2,62$$

$$3,8 - 0,163$$

$$12,13 - 4,006$$

$$20,2 - 12,12$$

404. Misollarni yeching:

$$27,39 + 8,24$$

$$126,7 + 32,09$$

$$81,52 + 9,632$$

$$27,039 + 3,87$$

$$119,5 - 7,9$$

$$63,4 - 9,56$$

$$32,4 - 10,8$$

$$13,24 - 0,672$$

$$36,81 + 9,274$$

$$63,9 + 0,2$$

$$8,097 + 20,91$$

$$5,32 + 14,783$$

$$31,504 - 6,32$$

$$80,4 - 12,623$$

$$51,3 - 9,48$$

409. Misollarni yeching:

$1 - 0,4$

$2 - 1,35$

$6 - 5,123$

$6,47 + 35$

$12 - 1,2$

$41 - 16,07$

$100 - 3,109$

$9,007 + 1$

$3 + 4,6$

$2,4 + 19$

$53 - 0,001$

$1 - 0,09$

410. Kerakli sonlarni qo'yib, butun son hosil qiling:

1	0,7	0,2		0,95		0,09		0,505	
	0,3		0,6		0,69		0,822		0,917

411. Yig'indini toping. Natijani ayirish bilan tekshiring:

$3,7 + 0,63$

$6 + 31,7$

$67,4 + 6,74$

$8,51 + 4,9$

$18,26 + 9,183$

$0,125 + 12,5$

$0,65 + 1,276$

$50,3 + 37$

$3 + 7,009$

$21,3 + 9,72$

$9,43 + 14,8$

$32,07 + 1$

412. Ayirmani toping. Natijani qo'shish bilan tekshiring:

$46,7 - 9,8$

$1 - 0,7$

$40 - 0,324$

$4,135 - 0,02$

$2,32 - 0,826$

$6,2 - 3,7$

$7 - 3,6$

$13 - 4,71$

$18,1 - 9,73$

$0,03 - 0,003$

$60,1 - 6,01$

$12,14 - 8,6$

413. Sonlarni taqqoslab, bir sonning ikkinchi sondan nechtaga ortiqligini toping:

$6,2 \dots 62$

$12,07 \dots 12,3$

$0,123 \dots 0,2$

$3,14 \dots 4$

$4,11 \dots 4,011$

$5,002 \dots 5,2$

414. Quyidagi sonlar yordamida qo'shish va ayirishga doir misollar tuzing:

$3,27 + \dots$

$9 - \dots$

$0,4 - \dots$

$0,5 + \dots$

$12,006 + \dots$

$16,8 - \dots$

0,39

8,634

13,9

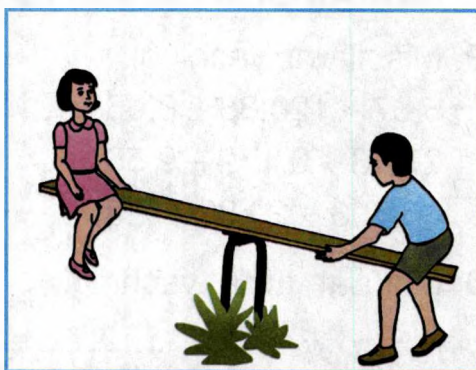
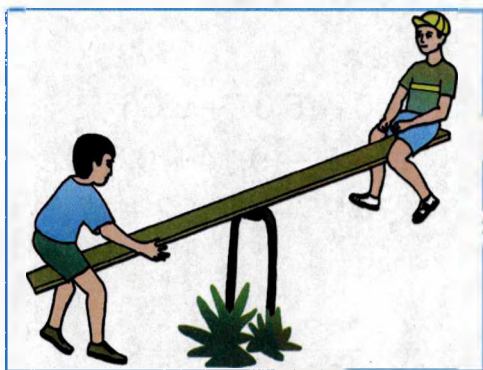
9,7

415. Qisqa shart bo'yicha masala tuzing va uni yeching:

Abror – 38,9 kg

Komil – 4,2 kg og'irroq

Lobar – 2,5 kg yengilroq



Abror yengilroqmi yoki Lobarmi? Necha kilogrammga yengilroq?

416. Misollar tuzib yeching.

1)

Qo'shiluvchi	5,67	42,07	51,36	31,1	73	6,003
Qo'shiluvchi	12,7	6,93	0,734	8,46	6,7	13,2
Yig'indi						

2) Kamayuvchi	21,7	36,08	7,812	42,7	18	12
Ayiriluvchi	8,19	16,7	0,32	32,07	6,3	9,08
Ayirma						

417. Maktab oshxonasiga 6,4 kg saryog' va undan 3,45 kg kam o'simlik yog'i olib kelindi. 7,9 kg yog' sarflangan bo'lsa, necha kilogramm yog' qoldi?

418. Tikuvchilik korxonasiga ko'rpa-yostiq jildlari tikish uchun gazlama olib kelindi. Choyshablarga 43,65 m, ko'rpa jildlariga undan 6,85 m ortiqroq gazlama sarflandi va yana 25,7 m gazlama ortib qoldi. Tikuvchilik korxonasiga hammasi bo'lib qancha gazlama olib kelindi?

419. Misollarni yeching:

$$5,07 + 120,35 - 8,063$$

$$40 - (5,07 + 9,36)$$

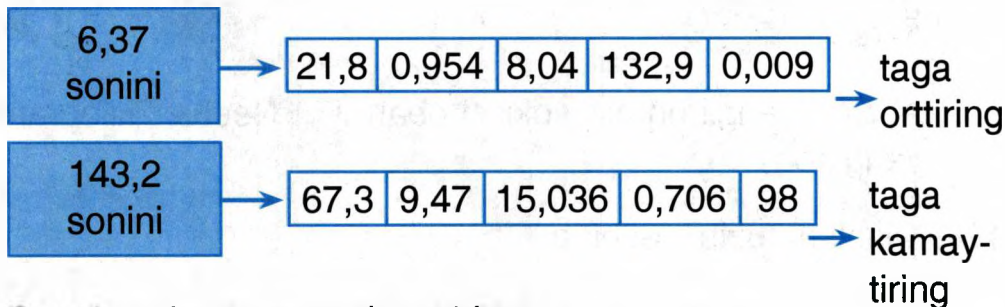
$$27,43 + 0,172 - 9,56$$

$$13,1 - (9,14 + 0,689)$$

$$36,603 - 29,82 + 7,3$$

$$74,25 - (26,32 + 17,8)$$

420. Misollar tuzib yeching.



421. Savol tuzib, masalani yeching:

1) Bitta gaykaning og'irligi 2,96 g, boshqasini esa undan 14,7 gramm og'irroq ... ?

2) Bitta gaykaning og'irligi 2,96 g, boshqasini 14,7 g

422. O'nli kasrlarning yig'indisini toping:

$$4,27 + 1,387 + 6$$

$$9 + 0,23 + 4,106$$

$$15,3 + 7 + 1,608$$

$$0,9 + 4,52 + 32$$

$$0,273 + 8,79 + 2,6 + 4$$

$$6,8 + 12,03 + 4 + 3,124$$

$$60 + 7,8 + 0,936 + 5,2$$

$$2,7 + 32 + 6,03 + 9,804$$

423. Samolyotga qo'l yuki uchun massasi 10 kg dan ko'p bo'lmagan yuk olish mumkin. Quyidagi sumkalardan qaysi birini qo'lda olib o'tish mumkin?



424. Misollar yordamida masalalar tuzing:

a) $3,4 \text{ kg} + 2,6 \text{ kg}$

b) $30,4 \text{ m} - 6,55 \text{ m}$

425. 1) Kasrlarni taqqoslang, $>$, $<$ yoki $=$ belgilaridan mosini qo'ying:

$$34,6 \dots 3,46$$

$$4,167 \dots 4,18$$

$$1,007 \dots 1,07$$

$$12,03 \dots 12,3$$

$$2,3 \dots 2,300$$

$$5,06 \dots 5,6$$

2) Hisoblamasdan amallarni taqqoslang:

a) $6,7 + 3,2 \dots 3,2 + 6,7$

b) $4,3 - 2,1 \dots 4,3 - 3,1$

426. 6,8 m li tasmadan yoqa bezagi uchun 0,75 m, ko'ylak etagi bezagi uchun undan 0,9 m uzunroq tasma kesib olindi. Qolgan tasmaning uzunligi qancha?

427. Sanjarning bo'yi 1,52 m, Gulzodaning bo'yi esa undan 0,17 m pastroq. Gulzodaning bo'yi necha metr?

428. Misollarni yeching:

$40 - (7,8 + 25,76)$	$(14,7 + 7,86) - (3,07 - 1,6)$
$3,2 + 36 - 9,037$	$8,13 + 25,9 - (6,345 + 12,76)$
$19,8 - 8,96 + 0,906$	$72,3 - (32,78 + 9,5) - 26,81$
$2,74 + (3,4 - 2,683)$	$37,06 - 18,9 + (2,36 - 0,786)$



MUSTAHKAMLASH UCHUN MASHQLAR

1. Bir o'ramda 40 m satin bor edi. Yostiq jildlari uchun o'ramdan 5,6 m va yana 8,75 m satin kesib olindi. Necha metr satin qoldi?

2. Amallarni bajaring:

$3,7 + 5,63$	$7,6 - 3,45$	$3,6 + 1,2$
$8,26 + 12$	$12 - 1,3$	$1,23 + 4,37$
$4,073 + 0,74$	$9,047 - 4,9$	$5,7 - 3,2$

3. Oshxonada 5 kg un bor edi. Shirin kulcha pishirish uchun 2,3 kg un sarflandi. Oshxonada qancha un qoldi?

4. Kasrlarni taqqoslang, $>$, $<$ yoki $=$ belgilaridan mosini qo'ying:

$13,7 \dots 8,736$	$4,3 \dots 4,30$	$16,3 \dots 16,31$
$15,6 \dots 10,3$	$5,02 \dots 5,024$	$1,01 \dots 1,001$



VAQT BIRLIKLARI

TAKRORLASH

429. Vaqt birliklarining nomini eslang, ularni kichigidan boshlab nomlarini ayting.

430. Nuqtalar o'rniga kerakli sonlarni qo'ying.

$$1 \text{ min} = \dots \text{ s.}$$

$$1 \text{ oy} = \dots, \dots, \dots \text{ sut.}$$

$$1 \text{ soat} = \dots \text{ min}$$

$$1 \text{ yil} = \dots \text{ oy}, \dots \text{ sut.}$$

$$1 \text{ sut.} = \dots \text{ soat}$$

$$1 \text{ asr} = \dots \text{ yil}$$

431. 1) Yilning birinchi va oxirgi oyini ayting.

2) Yilning o'n ikki oyi nomlarini tartib bilan ayting.

3) Jadvalni to'ldiring:

Oylarning tartib raqami	Oy nomi	Sutkalar miqdori
IV		
VI		
V		
X		
I		
VII		

Oylarning tartib raqami	Oy nomi	Sutkalar miqdori
IX		
XII		
II		
III		
XI		
VIII		

4) 2000-yil, 2008-yil fevral oylari 29 sutkadan iborat bo'lsa, bu yillar qanday nomlanadi? Keyingi kabisa yili nechanchi yilga to'g'ri keladi?

432. Nuqtalar o'rniga mos raqamlarni qo'ying:

Hozir ... yil.

Biz ... asrda yashayapmiz.

Men ... yilda tug'ilganman.

Men ... asrda tug'ilganman.

Amir Temur ... yilda tug'ilgan.

A.Navoiy ... yilda tug'ilgan.

433. Sonlarni taqqoslang. $>$, $<$ yoki $=$ belgilaridan mosini qo'ying:

a) 1 yil ... 20 oy	1 soat ... 57 min	2 soat ... 2 sut.
60 min ... 1 soat	3 s ... 3 min	25 soat ... 1 sut.
12 yil ... 12 oy	24 soat ... 1 sut.	70 s. ... 1 min

b) 1 soat 5 min ... 65 min	1 sut. 2 soat ... 2 soat 1 min
10 oy ... 1 yil 1 oy	1 yil 3 oy ... 15 oy
1 soat 10 min ... 1 min 10 s.	1 sut. 1 soat ... 1 sut. 60 min

434. 1) Karim Xorazmdagi buvisinikiga 31-dekabrda ketib, 10 kundan keyin qaytib keldi. Karim nechanchi sanada qaytib keldi?

2) Ozoda dam olish uchun toqqa 5-iyunda ketib, 29-iyunda qaytib keldi. Ozoda tog'da necha kun dam oldi?

VAQT BIRLIKLARINI QO'SHISH VA AYIRISH

Yirikroq o'lchovlarda ifodalang:

60 min = 1 soat	24 soat = 1 sut	12 oy = 1 yil
67 min =	30 soat =	16 oy =
70 min =	48 soat =	20 oy =
75 min =	27 soat =	24 oy =
100 min =	72 soat =	25 oy =

435. Namunaga qarab, misollarni yeching:

$\begin{array}{r} + 7 \text{ oy.} \\ + 8 \text{ oy.} \\ \hline 15 \text{ oy.} \\ \hline 1 \text{ yil-u } 3 \text{ oy} \end{array}$

9 oy + 10 oy	42 min + 21 min
6 sut. + 18 sut.	37 min + 42 min
18 sut. + 19 sut.	15 s. + 55 s.
6 oy + 8 oy	36 s. + 48 s.

436. Ikki o'lchov birliklariga oid sonlarning yig'indisini toping:

a)

$$\begin{array}{r} 8 \text{ yil } 6 \text{ oy} \\ + 5 \text{ yil } 3 \text{ oy} \\ \hline 13 \text{ yil } 9 \text{ oy} \end{array}$$

$$\begin{array}{r} 8 \text{ yil } 6 \text{ oy} \\ + 5 \text{ yil } 8 \text{ oy} \\ \hline 13 \text{ yil } 14 \text{ oy} \\ \hline 14 \text{ yil } 2 \text{ oy} \end{array}$$

$$6 \text{ yil } 3 \text{ oy} + 8 \text{ yil } 2 \text{ oy}$$

$$9 \text{ yil } 4 \text{ oy} + 3 \text{ yil } 8 \text{ oy}$$

$$8 \text{ yil } 5 \text{ oy} + 9 \text{ oy}$$

$$24 \text{ yil } 7 \text{ oy} + 15 \text{ yil } 9 \text{ oy}.$$

b) 1 oy = 30 sut nisbatdan foydalanib, misollarni yeching:

$$\begin{array}{r} 7 \text{ oy } 13 \text{ sut.} \\ + 2 \text{ oy } 10 \text{ sut.} \\ \hline 9 \text{ oy } 23 \text{ sut.} \end{array}$$

$$\begin{array}{r} 7 \text{ oy } 13 \text{ sut.} \\ + 2 \text{ oy } 27 \text{ sut.} \\ \hline 9 \text{ oy } 40 \text{ sut.} \\ \hline 10 \text{ oy } 10 \text{ sut.} \end{array}$$

$$3 \text{ oy } 17 \text{ sut.} + 6 \text{ oy } 8 \text{ sut.}$$

$$8 \text{ oy } 4 \text{ sut.} + 6 \text{ sut.}$$

$$10 \text{ oy } 16 \text{ sut.} + 3 \text{ oy } 21 \text{ sut.}$$

$$11 \text{ oy} + 8 \text{ oy } 9 \text{ sut.}$$

d)

$$\begin{array}{r} 5 \text{ sut. } 6 \text{ soat} \\ + 7 \text{ sut. } 8 \text{ soat} \\ \hline 12 \text{ sut. } 14 \text{ soat} \end{array}$$

$$\begin{array}{r} 5 \text{ sut. } 16 \text{ soat} \\ + 7 \text{ sut. } 12 \text{ soat} \\ \hline 12 \text{ sut. } 28 \text{ soat} \\ \hline 13 \text{ sut. } 4 \text{ soat} \end{array}$$

$$3 \text{ sut. } 9 \text{ soat} + 4 \text{ sut. } 5 \text{ soat}$$

$$6 \text{ sut. } 20 \text{ soat} + 12 \text{ sut. } 8 \text{ soat}$$

$$17 \text{ sut. } 10 \text{ soat} + 15 \text{ soat}$$

$$1 \text{ sut. } 23 \text{ soat} + 7 \text{ soat}$$

$$\begin{array}{r}
 \text{e)} \\
 13 \text{ soat } 32 \text{ min} \\
 + 8 \text{ soat } 16 \text{ min} \\
 \hline
 21 \text{ soat } 48 \text{ min}
 \end{array}$$

$$\begin{array}{r}
 13 \text{ soat } 32 \text{ min} \\
 + 8 \text{ soat } 36 \text{ min} \\
 \hline
 21 \text{ soat } 68 \text{ min} \\
 \hline
 22 \text{ soat } 8 \text{ min}
 \end{array}$$

9 soat 36 min + 34 min

48 min + 7 soat 21 min

12 soat 15 min + 6 soat 25 min

15 soat 50 min + 6 soat 27 min

$$\begin{array}{r}
 \text{f)} \\
 24 \text{ min } 30 \text{ s.} \\
 + 6 \text{ min } 19 \text{ s.} \\
 \hline
 30 \text{ min } 49 \text{ s.}
 \end{array}$$

$$\begin{array}{r}
 24 \text{ min } 30 \text{ s.} \\
 + 6 \text{ min } 40 \text{ s.} \\
 \hline
 30 \text{ min } 70 \text{ s.} \\
 \hline
 31 \text{ min } 10 \text{ s.}
 \end{array}$$

19 min 43 s. + 25 s.

25 min 14 s. + 16 min 59 s.

33 min 45 s. + 9 min 25 s.

37 s. + 2 min 30 s.

437. Sport musobaqalari soat 9 dan 30 minut o'tganda boshlanib, 5 soat-u 40 minut davom etdi. Musobaqalar soat nechada tugadi?

438. Sarvar 14 yosh-u 6 oyli, uning akasi undan 2 yosh-u 11 oy katta. Sarvarning akasi necha yoshda?

439. Misollarni yeching:

7 yil 6 oy + 4 yil 9 oy

13 soat 25 min + 35 min

10 min 56 s + 12 min 4 s

18 sut + 3 oy 16 sut

9 sut 3 soat + 8 sut

20 min 34 s + 16 min 35 s

9 sut. 17 soat + 5 sut. 8 soat

16 soat 49 min + 8 soat 7 min

440. 1) Do'kon soat 8 dan 19 gacha tanaffussiz ishlasa, har kuni necha soat ishlagan bo'ladi?

2) Do'kon har kuni soat 8 dan 21 gacha ishlaydi va soat 13 dan 14 gacha tanaffus qiladi. Do'kon necha soat ishlaydi?

441. Misollarni og'zaki yeching:

a) 23 soat – 11 soat
28 min – 19 min
3 soat 17 min – 17 min

5 sut. 6 soat – 5 sut.
4 sut. 12 soat – 4 soat
5 soat 20 min – 3 soat

b) 12 oy – 3 oy
3 yil 6 oy – 3 yil
5 yil 9 oy – 5 oy
8 oy 16 sut. – 8 sut

3 oy 20 sut. – 2 oy
28 sut. – 15 sut
2 sut. 10 soat – 2 soat
5 sut. 21 soat – 3 sut.

442. Ikki vaqt o'lchov birligiga oid sonlarning ayirmasini toping:

$$\begin{array}{r} 15 \text{ yil } 7 \text{ oy} \\ - 9 \text{ yil } 4 \text{ oy} \\ \hline 6 \text{ yil } 3 \text{ oy} \end{array}$$

8 oy 27 sut. – 5 oy 19 sut.

10 sut. 15 soat – 7 sut. 8 soat

15 soat 20 min – 6 soat 15 min

20 min 18 s. – 12 min 5 s.

443. Kichikroq o'lchov birliklarida ifodalang:

a) 1 soat = ... min
1 soat 3 min = ... min
1 soat 27 min = ... min
2 soat = ... min
1 yil = ... oy
1 yil 7 oy = ... oy

1 yil 10 oy = ... oy
2 yil = ... oy
1 oy = ... sut.
1 oy 5 sut. = ... sut.
1 oy 17 sut. = ... sut.
2 oy = ... sut.

b) 1 sut. = ... soat
 1 sut. 2 soat = ... soat
 1 sut. 15 soat = ... soat
 2 sut. = ... soat
 1 min = ... s.
 1 min 6 s. = s.

1 min 18 s. = ... s.
 2 min = ... s.
 1 oy 2 sut. = ... sut.
 1 oy 10 soat = ... soat
 1 yil 6 oy = ... oy
 1 soat 15 min = ... min

444. Misollarni og'zaki yeching:

1 soat – 15 min | 1 sut. – 12 soat | 1 min – 32 s.
 1 yil – 6 oy | 1 oy – 24 sut | 1 soat – 45 min

445. Namunalarga qarab, ayirish qanday bajarilganini tushuntiring. Misollarni yeching:

a)

$$\begin{array}{r} \cdot \quad 60 \\ 15 \text{ soat } 00 \text{ min} \\ - \quad 3 \text{ soat } 25 \text{ min} \\ \hline 11 \text{ soat } 35 \text{ min} \end{array}$$

$$\begin{array}{r} \cdot \quad 68 \\ 15 \text{ soat } 8 \text{ min} \\ - \quad 3 \text{ soat } 25 \text{ min} \\ \hline 11 \text{ soat } 43 \text{ min} \end{array}$$

6 soat – 3 soat 17 min
 7 soat 5 min – 4 soat 35 min
 11 soat 40 min – 1 soat 48 min
 15 soat – 13 min

b)

$$\begin{array}{r} \cdot \quad 12 \\ 12 \text{ yil } 00 \text{ oy} \\ - \quad \quad \quad 2 \text{ oy} \\ \hline 11 \text{ yil } 10 \text{ oy} \end{array}$$

$$\begin{array}{r} \cdot \quad 15 \\ 12 \text{ yil } 03 \text{ oy} \\ - \quad 3 \text{ yil } 5 \text{ oy} \\ \hline 8 \text{ yil } 10 \text{ oy} \end{array}$$

13 yil 7 oy – 6 yil 9 oy
 9 yil – 7 yil 3 oy.

6 yil 1 oy – 8 oy
 20 yil – 11 oy.

$$\begin{array}{r}
 \overset{30}{7} \text{ oy } 00 \text{ sut.} \\
 - 3 \text{ oy } 19 \text{ sut.} \\
 \hline
 3 \text{ oy } 11 \text{ sut.}
 \end{array}$$

$$\begin{array}{r}
 \overset{42}{7} \text{ oy } 12 \text{ sut.} \\
 - 3 \text{ oy } 25 \text{ sut.} \\
 \hline
 3 \text{ oy } 17 \text{ sut.}
 \end{array}$$

10 oy – 2 oy 6 sut.

8 oy 15 sut. – 4 oy 20 sut.

9 oy – 5 oy 19 sut.

5 oy 21 sut. – 2 oy 25 sut.

446. 1) Ota 35 yoshda, o'g'il esa otadan 21 yosh-u 7 oylik kichik bo'lsa, o'g'il necha yosh-u, necha oyli bo'ladi?

2) Opa 18 yosh, uka 13 yosh-u 6 oyli bo'lsa, opa ukadan qancha katta bo'ladi?

3) Buvi 53 yoshda, nabira esa 9 oyli bo'lsa, nabira buvidan necha yosh kichik bo'ladi?

447. Namunalarga qarab misollarni yeching. Ayirish qanday bajarilganini tushuntiring:

$$\begin{array}{r}
 \overset{24}{20} \text{ sut. } 00 \text{ soat} \\
 - 6 \text{ sut. } 14 \text{ soat} \\
 \hline
 13 \text{ sut. } 10 \text{ soat}
 \end{array}$$

$$\begin{array}{r}
 \overset{27}{20} \text{ sut. } 03 \text{ soat} \\
 - 6 \text{ sut. } 15 \text{ soat} \\
 \hline
 13 \text{ sut. } 12 \text{ soat}
 \end{array}$$

15 sut. – 13 soat

8 sut. 6 soat – 3 sut. 12 soat

19 sut. 13 soat – 8 sut. 20 soat

1 sut. 2 soat – 3 soat

b)

$$\begin{array}{r} \cdot \quad 60 \\ 27 \text{ min } 00 \text{ s.} \\ - \quad 5 \text{ min } 28 \text{ s.} \\ \hline 21 \text{ min } 32 \text{ s.} \end{array}$$

$$\begin{array}{r} \cdot \quad 73 \\ 27 \text{ min } 13 \text{ s.} \\ - \quad 5 \text{ min } 28 \text{ s.} \\ \hline 21 \text{ min } 45 \text{ s.} \end{array}$$

$$38 \text{ min} - 15 \text{ s.}$$

$$20 \text{ min} - 5 \text{ min } 16 \text{ s.}$$

$$42 \text{ min } 17 \text{ s.} - 48 \text{ s.}$$

$$15 \text{ min } 9 \text{ s.} - 3 \text{ min } 12 \text{ s.}$$

448. Harbiy askarga namunali xizmatlari uchun 5 sutka ta'til berildi. Undan 14 soatini u yo'lga sarfladi. Askar uyida qancha vaqt bo'lgan?

449. Brigada maktabni 3 oy-u 12 sutkada, xonadonni esa undan 2 oy-u 16 sutkaga tezroq ta'mirdan chiqardi. Xonadonni ta'mirlash uchun qancha vaqt kerak bo'ldi?

450. Amallarni bajaring:

$$\text{a) } 12 \text{ sut.} - 6 \text{ sut. } 18 \text{ soat} \quad 8 \text{ soat} - 5 \text{ soat } 20 \text{ min}$$

$$9 \text{ sut.} - 3 \text{ soat} \quad 16 \text{ soat } 12 \text{ min} - 16 \text{ min}$$

$$22 \text{ sut. } 17 \text{ soat} - 16 \text{ sut. } 5 \text{ soat}$$

$$13 \text{ soat } 42 \text{ min} - 7 \text{ soat } 23 \text{ min}$$

$$20 \text{ sut. } 1 \text{ soat} - 16 \text{ sut. } 5 \text{ soat}$$

$$3 \text{ soat } 28 \text{ min} - 1 \text{ soat } 35 \text{ min}$$

$$\text{b) } 40 \text{ min } 17 \text{ s.} - 15 \text{ min } 9 \text{ s.} \quad 6 \text{ yil} - 4 \text{ yil } 5 \text{ oy}$$

$$32 \text{ min} - 31 \text{ s.} \quad 7 \text{ oy} - 2 \text{ oy } 8 \text{ sut.}$$

$$15 \text{ min } 6 \text{ s.} - 10 \text{ min } 16 \text{ s.} \quad 5 \text{ yil } 6 \text{ oy} - 3 \text{ yil } 8 \text{ oy}$$

$$46 \text{ min } 50 \text{ s.} - 46 \text{ s.} \quad 13 \text{ oy } 16 \text{ sut.} - 4 \text{ oy } 9 \text{ sut.}$$

451. Matematika darsida berilgan uy vazifalarni bajarish uchun o'quvchiga 25 minut, she'r yodlashga 1 soat-u 45 minut, rus tilidan berilgan uy vazifalarni tayyorlash uchun 20

minut vaqt kerak bo'ldi. O'quvchi uyga berilgan hamma vazifalarni bajarishga qancha vaqt sarfladi?

452. O'quvchi dars tayyorlashni soat 15 dan 40 minut o'tganda boshlab, 30 minutdan keyin tugatdi. O'quvchi soat nechada dars tayyorlab bo'ldi?

453. Qishloqdan shahargacha avtobusda 2 soat-u 10 minutda, yengil mashinada esa 1 soat-u 30 minutda yetib borish mumkin. Avtobusda yengil mashinadagiga qaraganda qancha ko'proq vaqt yuriladi?

454. Amallarni bajaring:

5 oy 8 sut. + 6 oy 13 sut.	46 min + 3 soat 15 min
9 yil 4 oy + 7 yil 8 oy	16 sut. 12 soat + 8 sut. 14 soat
5 soat 16 min - 20 min	15 soat 36 min + 2 soat 19 min
18 yil - 9 oy	13 sut. - 12 soat.

455. Shanba kuni Malika kitob o'qishga 65 minut, yakshanba kuni esa 1 soat-u 10 minut sarfladi. Malika qaysi kuni kitob o'qishga ko'proq va qanchaga ko'proq vaqt sarfladi?

456. Hozir ertalabki soat 8 bo'lsa, sutka oxirigacha qancha vaqt qoladi?

457. 1) Shavkat buvisinikiga 1-iyunda ketib, u yerdan 25-avgustda qaytdi. Shavkat buvisinikida necha oy va necha kun mehmon bo'ldi?

2) Gulchehra bolalar oromgohiga 7-iyulda kelib, u yerdan 15-avgustda qaytdi. Gulchehra oromgohda necha oy va necha kun dam oldi?

458. 1) O'quvchilar bir o'quv yilida to'liq necha oy o'qishadi?
2) Yozgi ta'til necha oy va necha kun davom etadi?

459. Misollarni yeching:

15 sut – 6 sut. 7 soat	13 sut. 15 soat + 13 soat
19 soat 8 min + 42 min	8 oy 19 sut. + 2 oy 23 sut.
6 soat 50 min – 5 min	11 oy – 9 sut.
4 sut. 3 soat – 4 soat	8 soat 24 min + 3 soat 43 min



MUSTAHKAMLASH UCHUN MASHQLAR

1. 7-sinfda darslar soat 8 dan 30 minut o'tganda boshlanib, 5 soat-u 40 minutdan keyin tugadi. Mashg'ulotlar soat nechada tugaydi?

2. Amallarni bajaring:

5 yil 4 oy + 7 yil 11 oy	15 soat – 15 min
8 oy 16 sut. + 3 oy 17 sut.	3 sut. 19 soat – 2 sut. 8 soat
4 soat 20 min + 8 soat 45 min	5 min 3 s. – 50 s.
2 sut. 5 soat + 19 soat	1 yil 4 oy – 10 oy

3. To'garak mashg'ulotlari soat 16 da boshlanib, 1 soat-u 20 minutdan keyin tugadi. Mashg'ulotlar soat nechada tugaydu?

4. Misollarni yeching:

4 soat 20 min + 40 min	1 soat – 10 min
1 yil 6 oy + 6 oy	3 soat – 40 min
3 sut. 12 soat + 5 sut. 8 soat	4 yil – 1 yil 2 oy
4 min 20 s. + 3 min 19 s.	4 sut. 8 soat – 3 soat

5. Vaqtlarni taqqoslang, >, < yoki = belgilaridan mosini qo'ying:

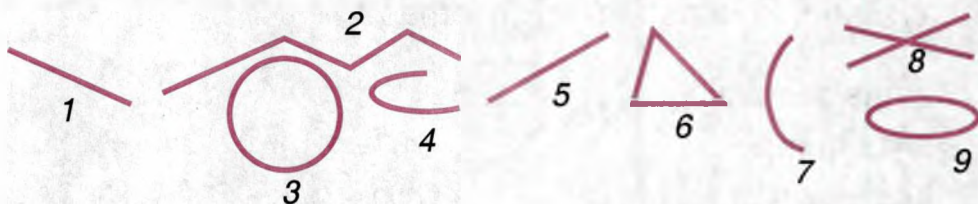
1 soat ... 65 min	5 min ... 60 s.	3 oy ... 30 sut.
1 sut. 2 soat ... 12 min	1 yil 2 oy ... 14 oy	2 soat ... 120 min.



GEOMETRIYA

TAKRORLASH

460. 6-rasmga qarang. Ushbu geometrik shakllar qanday ataladi? Rasmdagi shakllarning tartib raqamlaridan mosini qo'yib, jadvalni to'ldiring.



6-rasm.

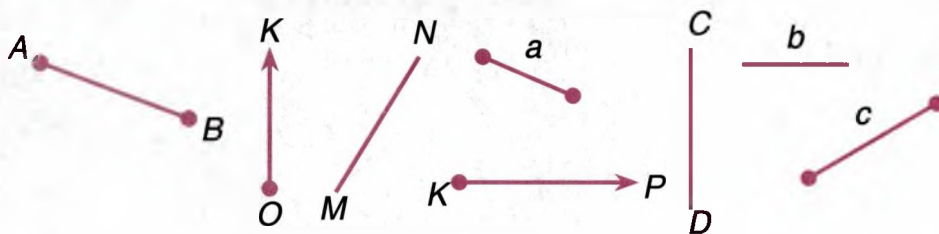
To'g'ri chiziqlar	
Siniq chiziqlar	
Egri chiziqlar	

461. 1) Nuqta qo'yib, bu nuqtadan to'g'ri chiziq o'tkazing. Bitta nuqtadan nechta to'g'ri chiziq o'tkazish mumkin?

2) Berilgan ikki nuqtadan to'g'ri chiziq o'tkazing. Ikki nuqtadan nechta to'g'ri chiziq o'tkazish mumkin?

462. Kesma va to'g'ri chiziqlar ikkita bosh harf, masalan AB va BC yoki bitta kichik harf, masalan, a , b , c bilan belgilanadi.

7-rasmdagi geometrik shakllarning nomini ayting.



7-rasm.

Geometrik shakllarning qaysilarini o'lchash mumkin va qaysilarini o'lchash mumkin emas?

463. Kesmalar chizing:

$$a = 15 \text{ mm};$$

$$AB = 8 \text{ sm};$$

$$b = 4 \text{ sm } 8 \text{ mm};$$

$$CD = 3 \text{ sm};$$

$$c = 30 \text{ mm};$$

$$MN = 5 \text{ sm } 3 \text{ mm}.$$

Uzunligi bir xil bo'lgan kesmalarni ajratib yozing.



Kesma uzunliklarini qo'shish va ayirish mumkin.

464. 1) Ikkita a va b kesma uzunliklari yig'indisiga teng c kesma hosil qiling:

$$a = 4 \text{ sm}, b = 2 \text{ sm}.$$

$c = a + b$ kesma chizing.

2) Ikkita a va b kesma uzunliklarining ayirmasiga teng c kesma hosil qiling:

$$\text{Ber: } a = 7 \text{ sm}, b = 3 \text{ sm}.$$

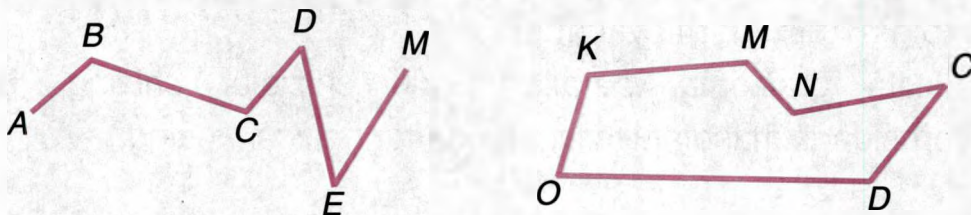
$c = a - b$ kesma chizing.

465. Kesmalarning uzunliklarini hisoblab chizing:

$c = a + b$			$c = a - b$	
a	2 sm 3 mm	6 sm	5 sm 6 mm	9 sm 7 mm
b	4 sm	5 mm	3 sm	7 mm
c	?	?	?	?

466. 8-rasmdagi kesmalar qanday ataladi?

Siniq chiziqlar qanday kesmalardan tashkil topgan?



8-rasm.

$ABCDEM$ siniq chizig'ining uzunligini toping.

467. Rasmga qarang. Fazoda jismlar qanday yo'nalishda joylashishi mumkin?



Gorizontal yo'nalishni aniqlash uchun qanday asbobdan foydalaniladi?

Vertikal yo'nalishni aniqlashda-chi?

468. Chizg'ich yordamida uzunligi 5 sm li kesishmagan (parallel) ikkita kesmani:

a) vertikal holatda;

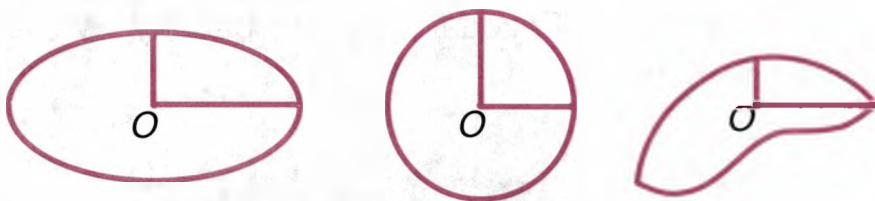
b) gorizontal holatda chizing.

To'g'ri burchak ostida kesishgan, uzunligi 4 sm bo'lgan ikki juft kesma chizing. Bu kesmalar qanday nomlanadi, uzunligi 6 sm bo'lgan ikkita AB va CD to'g'ri chiziqlarni yasang.

Ikkita gorizontal parallel to'g'ri chiziqlar chizing. Ular orasidagi masofani o'lchab, daftaringizga yozing.

AYLANA. AYLANANING TUZILISHI

469. 9-rasmdagi chiziqlar qanday nomlanadi?



9-rasm.

O nuqta nimani bildiradi?

Har bir yopiq egri chiziqlarga nuqta qo'yib, O nuqta bilan birlashtiring.

Hosil bo'lgan kesmalarning uzunligini o'lchab, xulosa qiling.



Tekislikda berilgan O nuqtadan bir xil uzoqlikda joylashgan egri chiziq **aylana** deyiladi.

Aylanani chizish uchun qanday asbobdan foydalaniladi?

- 470.** Sirkulni 1 sm 5 mm li ochib, daftaringizga aylana chizing. Aylananing markazini O nuqta bilan belgilang. O nuqtani aylanadagi A nuqta bilan birlashtirib, OA kesmani hosil qildik. Bu kesma nima deb atalishini eslang.

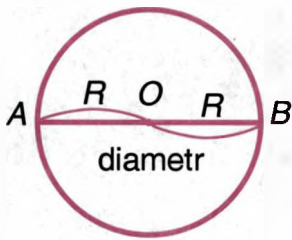


Aylananing ixtiyoriy nuqtasini uning markazi bilan tutashtiruvchi kesma **aylananing radiusi** deyiladi.

Bir nechta radiuslar chizing. Ularning uzunligini o'lchang. Bu uzunliklar nimani bildiradi? Radius qisqacha $R(r)$ deb belgilanadi.

- 471.** Sirkulni 2 sm li ochib, aylana chizing. Aylanada shunday kesma o'tkazing-ki, u aylana markazidan o'tsin. Bu kesma qanday atalishini ayting. Diametr qisqacha $D(d)$ deb belgilanadi. Diametr aylanani nechta teng bo'laklarga bo'ladi? Aylanada nechta diametr o'tkazsa bo'ladi?

- 472.** Radiusi 3 sm bo'lgan aylana chizing. Aylananing markazidan bir tarafga bir radius va qarama-qarshi tarafga ikkinchi radiusni o'tkazing. Qanday kesma hosil bo'ldi? (10-rasm)



10-rasm.

$$AO = OB = \text{radiuslar} - R$$

$$AB - \text{diametr} - D$$

$$AB = AO + OB$$

$$D = 2R$$



Diametrning uzunligi ikkita radius uzunligiga teng.

Ber: $R = 3$ sm

$D = ?$

Yechish:

$$D = 2 \cdot R$$

$$D = 2 \cdot 3 = 6 \text{ (sm)}.$$

473. Aylanalar chizing:

a) radiusi 4 sm;

d) diametri 10 sm;

b) diametri 8 sm;

e) radiusi 50 mm.

Nima uchun a , b va d , e aylanalar bir biriga teng, tushuntiring.

474. Jadvalda berilgan radius va diametrlarning o'lchamlari bo'yicha aylanalar chizing:

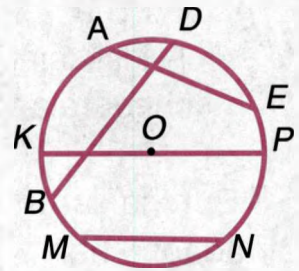
R	25 mm		1 sm 8 mm	
D		4 sm		5 sm

Bir xil aylanalar hosil bo'ldimi? Nima uchun?

475. Aylana chizing ($R = 4$ sm). Aylana ichida aylana markazidan o'tmaydigan, lekin aylanadagi ikki nuqtani birlashtiruvchi AC , CD , MN kesmalarni chizing (11-rasm).



Aylananing ixtiyoriy ikki nuqtasini tutashtiruvchi kesma **vatar** deb ataladi.



11-rasm.

Aylananing markazidan o'tuvchi vatarni toping, uni yana qanday atash mumkin?

476. Aylana chizing ($R=5$ sm). Hosil bo'lgan aylanada quyidagi uzunliklarda vatarlar o'tkazing:

$AB=2$ sm; $ED=7$ sm; $CK=1$ sm 5 mm; $MN=10$ sm; $PH=13$ sm.

MN vatarni yana qanday nomlash mumkin?

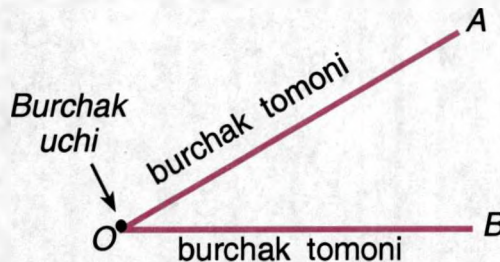
Berilgan aylanada PH vatar o'tkazish mumkinmi?

Aylanada nechta vatar o'tkazish mumkin?

BURCHAKLAR

Qog'ozda O nuqta belgilab, undan OA va OB nurlarni chiqaring (12-rasm). Bu ikkita nur burchak hosil qiladi. Bu ikkita nur chiqqan nuqta **burchak uchi** deyiladi.

Burchak hosil qilgan nurlar **burchak tomonlari** deyiladi.



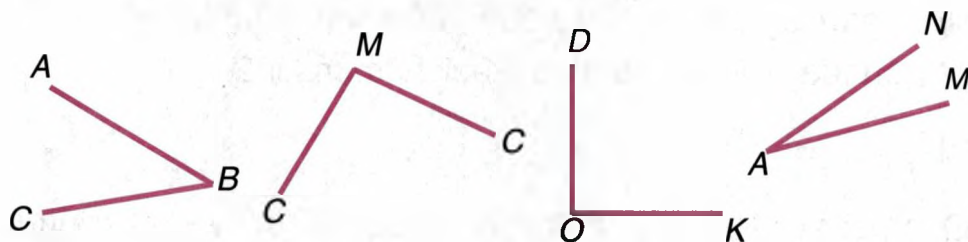
12-rasm.



Tekislikning bir nuqtasidan chiqqan ikki nur bilan chegaralangan qismi **burchak** deyiladi.

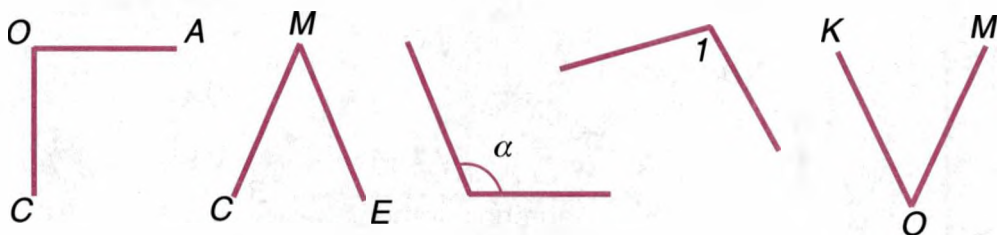
Burchaklarni katta harflar bilan belgilash qabul qilingan. O'rtadagi harf burchakning uchini, ikkita chetdagi harf burchak tomonlarini bildiradi va AOB yoki BOA burchaklari deb o'qiladi. Burchakni « \angle » bilan belgilash qabul qilingan, masalan $\angle AOB$. Burchakni burchak uchidagi harf bilan ham belgilasa bo'ladi. AOB burchagini O harfi bilan belgilash mumkin. Masalan, $\angle O$.

477. 13-rasmda tasvirlangan burchaklarning nomini ayting. Ularning belgilanish ifodasini yozing:



13-rasm.

478. Burchaklarning uchlarini, tomonlarini va nomlarini ayting (14-rasm).



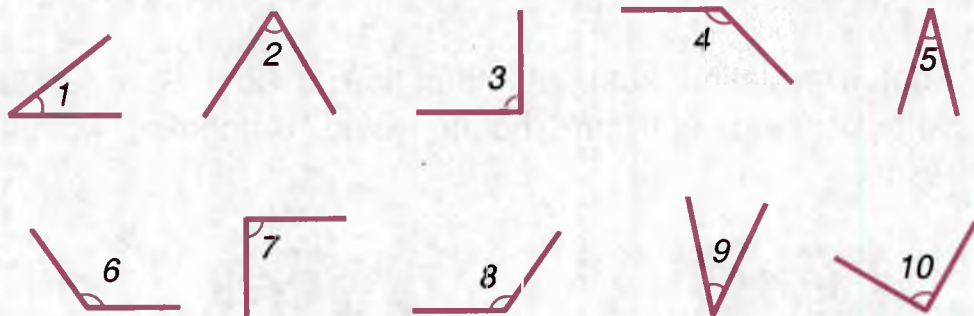
14-rasm.

479. Burchaklarning tartib raqamlarini yozing (15-rasm):

To'g'ri burchaklar ...

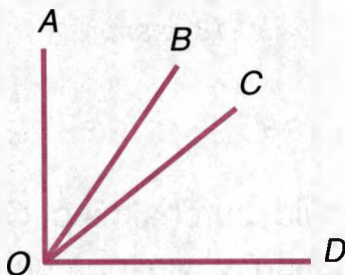
O'tkir burchaklar ...

O'tmas burchaklar ...



15-rasm.

480. 16-rasmda nechta burchak tasvirlangan? Nomlarini aytib, daftaringizga yozing:



16-rasm.

YOYIQ BURCHAK

O nuqtadan ikkita nur chiqaramiz: OC va OD . Umumiy burchak uchi – O hosil bo'ldi (17-rasm). OC va OD nurlar bir-biriga qarama-qarshi joylashdi. Ular qarama-qarshi nurlar deb ataladi.

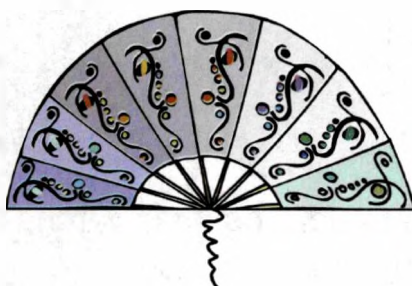


Tomonlari qarama-qarshi tomonga qaragan nurlardan tashkil topgan burchak **yoyiq burchak** deb ataladi.



17-rasm.

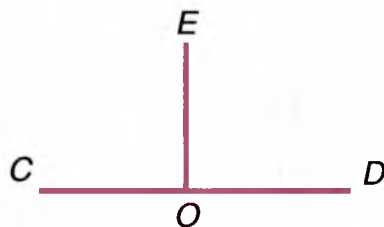
Soat siferblatida soat va minut millari soat 6 ni ko'rsatsa va yelpig'ichning ochilgan holati yoyiq burchakni ko'rsatadi (18-rasm).



18-rasm.

TO'G'RI BURCHAK

COD (19-rasm) yoyiq burchakning O uchidan shunday OE nur o'tkazaylik-ki, u ushbu yoyiq burchakni teng ikkiga bo'lsin. Bunda COE va EOD burchaklar hosil bo'ladi. Bu burchaklar to'g'ri burchaklardir.



19-rasm.

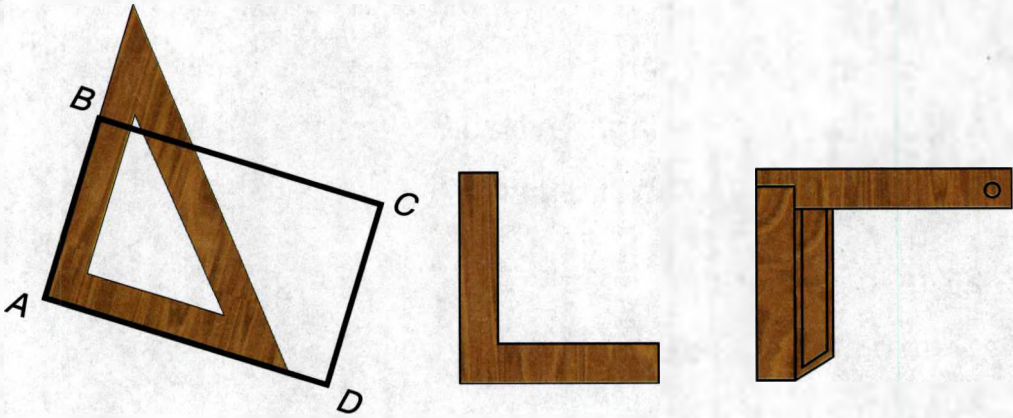


To'g'ri burchak deb, yoyiq burchakning yarmiga aytiladi.

Bir varaq qog'oz teng buklansa, ikkita to'g'ri burchak hosil bo'ladi.

To'g'ri burchak hosil qilishda maxsus uchburchak chizg'ichdan foydalaniladi.

Chilangarlik va duradgorlik ustaxonalarida detal tayyorlashda go'niyalardan foydalaniladi. Go'niyalar turli xil bo'ladi (20-rasm).



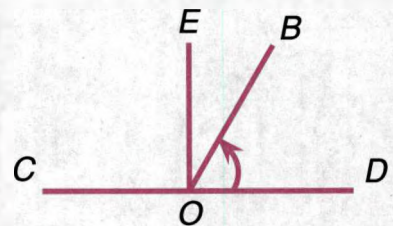
20-rasm.

O'TKIR VA O'TMAS BURCHAKLAR

BOD burchak EOD to'g'ri burchakdan kichik.



O'tkir burchak deb, to'g'ri burchakdan kichik burchakka aytiladi.

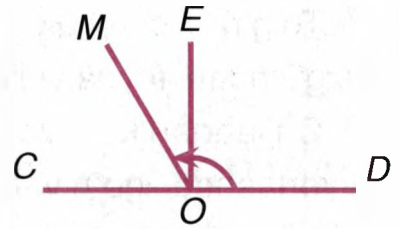


21-rasm

MOD burchak EOD to'g'ri burchakdan katta, lekin COD yoyiq burchakdan kichik (22-rasm).



O'tmas burchak deb, to'g'ri burchakdan katta va yoyiq burchakdan kichik burchakka aytiladi.



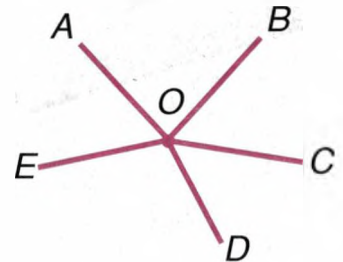
22-rasm.

481. Savollarga javob bering:

- 1) Burchak deb nimaga aytiladi?
- 2) Burchaklar qanday belgilanadi?

482. 23-rasmga qarang:

- 1) to'g'ri burchaklarni;
- 2) o'tkir burchaklarni;
- 3) o'tmas burchaklarni;
- 4) yoyiq burchaklarni ko'rsating.



23-rasm.

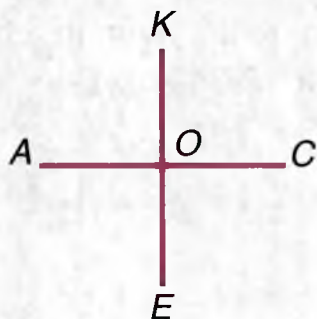
483. Soat millari soat 2, 3, 4, 6, 12 ni ko'rsatsa, qanday burchaklar hosil qilishini aniqlang.



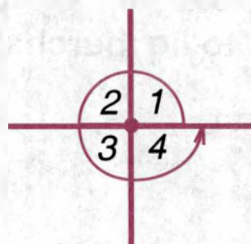
484. To'rtta kesmadan tashkil topgan siniq chiziq chizing. Nechta burchak hosil bo'lganini ayting. Ularning nomlarini ayting.
485. Ikkita kesishgan to'g'ri chiziq chizing. Hosil bo'lgan burchaklarning nomini ayting.
486. Boshi va tomonlari umumiy bo'lgan bir nechta burchaklar chizing.

TO'LIQ BURCHAK

24-rasmga qarab to'g'ri burchak va yoyiq burchaklarni ko'rsating. 25-rasmda nechta yoyiq burchak bor?



24-rasm.



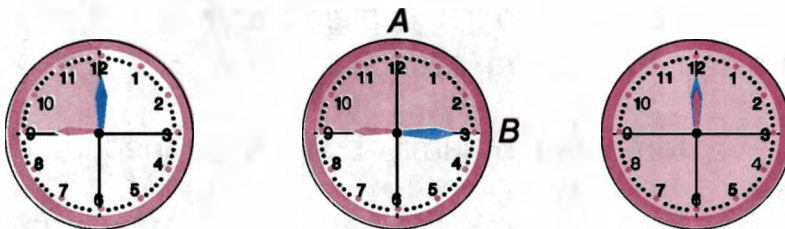
25-rasm.

Yoyiq burchak ikkita to'g'ri burchakka teng. To'rtta to'g'ri burchak yoki ikkita yoyiq burchak **to'liq burchak**ni hosil qiladi.

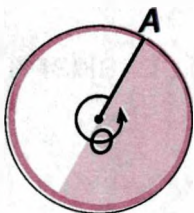


Ikkita yoyiq burchakdan hosil bo'lgan burchak **to'liq burchak** deb ataladi.

Soatlardagi soat va minut millari to'g'ri burchakni hosil qiladi (26-rasm). 15 minutning ichida soat mili AOB burchakka burilsa, u qanday burchakni hosil qiladi?



26-rasm.



27-rasm.

OA nur O nuqta atrofida to'liq aylanib chiqsa, **to'liq burchak** hosil qiladi (27-rasm).

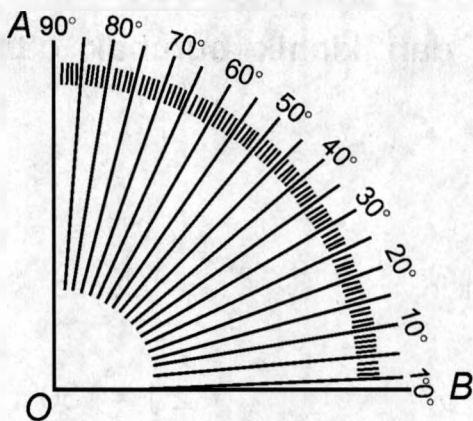
GRADUS. BURCHAKLARNING GRADUS O'LCHOVI

- 1) Odamning massasini;
- 2) maktab koridorining uzunligini;
- 3) sotib olingan tovarning bahosini;
- 4) vaqt miqdorini o'lchashda qaysi o'lchov birliklaridan foydalaniladi?

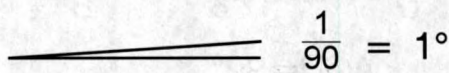
Burchaklarni o'lchashda maxsus o'lchov birligi – gradusdan foydalaniladi. Bunga to'g'ri burchakni 90 ta mayda burchaklarga bo'lish orqali erishiladi.

Har bir burchak 1 gradusga teng va 1° (28-rasm) deb belgilanadi.

Har bir burchak to'g'ri burchakning $\frac{1}{90}$ bo'lagini tashkil qiladi (29-rasm).



28-rasm.



29-rasm.

✓ To'g'ri burchakning $\frac{1}{90}$ bo'lagi **gradus** deb ataladi.
To'g'ri burchak 90° ga teng.

Quyidagicha yoziladi: $\angle AOB = 90^\circ$. «Gradus» so'zi o'rniga $^\circ$ belgisi qo'yiladi.

487. O'qing: $\angle C = 45^\circ$; $\angle 1 = 130^\circ$; $\angle AOD = 180^\circ$; $\angle 2 = 70^\circ$.

✓ Yoyiq burchak ikkita to'g'ri burchakka teng bo'lgani uchun 180° ni tashkil qiladi.
To'liq burchak to'rtta to'g'ri burchakka teng bo'lgani uchun 360° ni tashkil qiladi.

30-rasmga qarang.

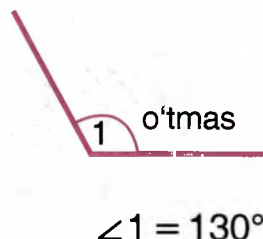
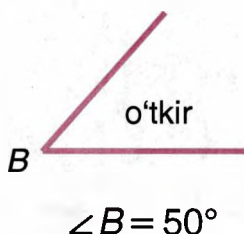
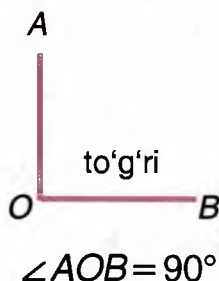
O'tkir burchak to'g'ri burchakdan kichik, demak u 90° dan kichik bo'ladi.

$\angle B = 50^\circ$, $50^\circ < 90^\circ$, demak, $\angle B = 50^\circ$ o'tkir burchak.

90° dan kichik burchak – oʻtkir burchakdir.

Oʻtmas burchak toʻgʻri burchakdan katta va yoyiq burchakdan kichik: $\angle 1 = 130^\circ$, $130^\circ > 90^\circ$, $130^\circ < 180^\circ$.

90° dan katta, lekin 180° dan kichik burchak oʻtmas burchakdir.



30-rasm.

488. Quyidagi burchaklardan avval oʻtkir, keyin oʻtmas burchaklarni ajratib yozing:

35°; 100°; 91°; 18°; 78°; 180°; 123°; 110°; 90°; 35°; 8°; 170°; 0°; 13°; 89°; 179°.

489. Jadvalda koʻrsatilgan burchaklarga mos gradus oʻlchovlarni qoʻyib toʻldiring.

toʻgʻri burchak			
oʻtkir burchak			
oʻtmas burchak			
yoyiq burchak			

490. Toʻgʻri burchak, toʻgʻri burchakning yarmi, yoyiq burchakning $\frac{1}{2}$ qismi, toʻgʻri burchakning $\frac{1}{3}$ qismi, toʻliq burchakning $\frac{1}{10}$ qismi necha gradusni tashkil qiladi?

491. 1) To'g'ri burchakdan katta burchak qanday ataladi? U necha gradusni tashkil qiladi? Shunday burchaklardan beshtasini toping.

2) Yoyiq burchak necha gradusni tashkil qiladi?

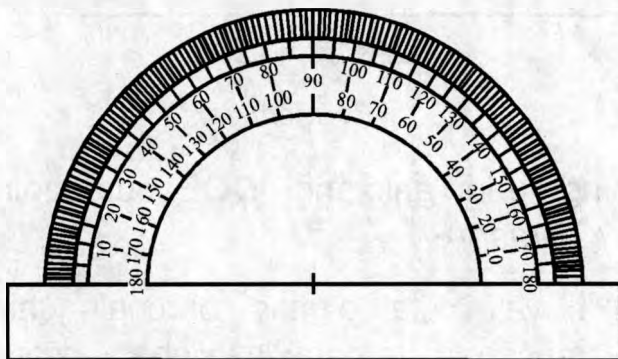
3) To'g'ri burchakdan kichik burchak nima deb ataladi? U necha gradusni tashkil qiladi? Shunday burchaklardan beshtasini yozing.

4) To'liq burchakning ichida nechta to'g'ri burchak bor? To'liq burchakning ichida nechta yoyiq burchak bor? Yoyiq burchakning ichida nechta to'g'ri burchak bor?

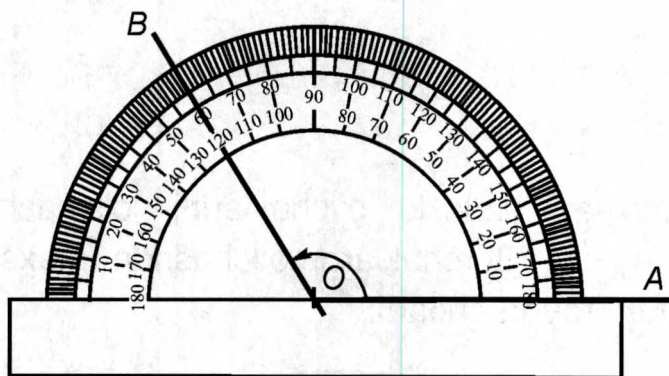
492. Jismoniy tarbiya darsida «Aylan!» komandasi berilsa, o'quvchi necha gradusga burilishi kerak?

TRANSPORTIR. TRANSPORTIR YORDAMIDA BURCHAKLARNI YASASH VA O'LCHASH

Vaqt, massa, uzunlik o'lchovlarini o'lchash asboblari-ning nomini ayting. Burchaklarni o'lchashda maxsus asbob – **transportirdan** foydalaniladi.



Transportir 180° yoyiq burchak ostidagi yarim aylana shaklida bo'lib, 0° dan 180° gacha mayda shtrixlar bilan ajratilgan. Odagi bir chiziqcha transportir markazidan o'ngda, boshqasi esa chapda joylashgan. Shuning uchun har 10° dan keyin ikkita son ko'rsatilgan. Masalan: 30° va 150°, 60° va 120°. Transportir markazi shtrix bilan belgilangan bo'lib burchak uchini tashkil qiladi. AOB burchakni transportir yordamida o'lchash uchun transportir markazi burchak uchi – O nuqta bilan ustma-ust tushiriladi. Transportirning yarim aylana markazini burchakning uchiga, boshqa tomoni burchakning OB tomoniga qo'yiladi. Burchakning OA tomoni bilan ustma-ust tushgan transportirdagi chiziqcha, berilgan AOB burchakning gradus kattaligini ifodalaydi: $\angle AOB = 120^\circ$ (31-rasm).

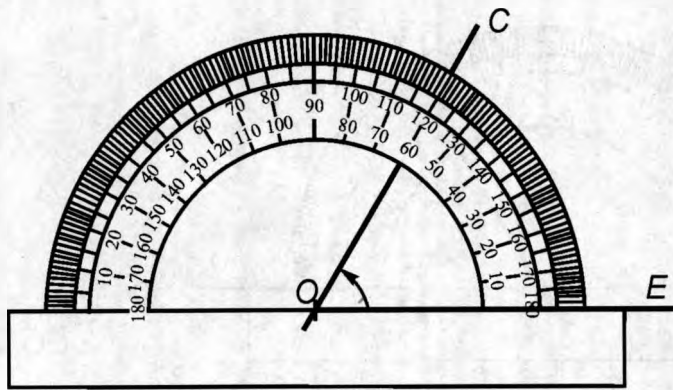


$$\angle AOB = 120^\circ$$

31-rasm.

493. Burchakning turini aniqlang. COE burchagining kattaligini o'lchang (32-rasm).

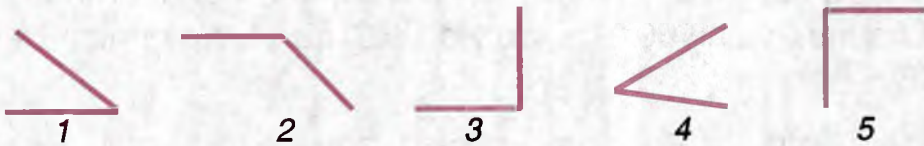
494. Ikkita o'tkir va ikkita o'tmas burchak chizing. Ularning kattaligini transportir yordamida o'lchab, natijalarni yozing.



$$\angle COE = \dots$$

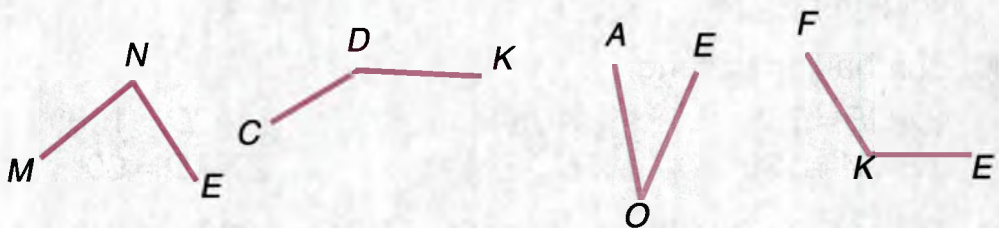
32-rasm.

495. Burchakning turini aniqlang va transportir yordamida burchaklarning kattaligini o'lchang (33-rasm):

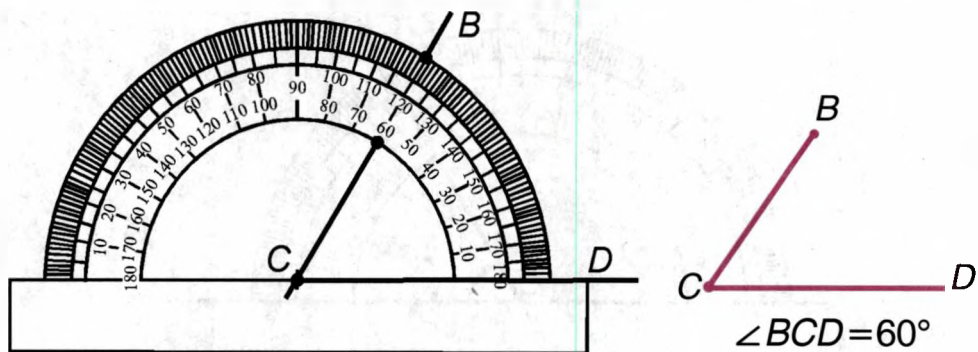


33-rasm.

496. Transportir yordamida burchaklarning kattaligini o'lchab, natijalarni yozing (34-rasm):



34-rasm.



35-rasm.

Transportirdan burchaklarni yasashda ham foydalaniladi. 60° ga teng BCD burchak yasaymiz. Buning uchun CD nur o'tkazamiz (35-rasm).

Transportirni shunday joylashtiramizki, transportir markasi nur boshi – C nuqta bilan, CD nurni esa transportir diametri bilan to'g'rilaymiz va B nuqtani transportirdagi 60° li chiziqcha, ya'ni 60° ga qo'yib, BC nur o'tkazamiz. Demak, $\angle BCD = 60^\circ$.

497. 15° ; 90° ; 30° ; 105° ; 140° ; 70° ; 170° ; 90° ga teng burchaklar yasang.

498. 90° dan kichik uchta burchak yasang. Bu burchaklar turini aniqlang.

499. 90° dan katta burchaklar yasang. Bu burchaklar turini aniqlang.

500. Burchaklar yasang:

$\angle AOB = 75^\circ$	$\angle ADK = 180^\circ$	$\angle MCD = 100^\circ$
$\angle EKM = 130^\circ$	$\angle CDE = 90^\circ$	$\angle KAD = 60^\circ$

501. 1) $\angle AOC = 90^\circ$ li; 2) $\angle BOC = 120^\circ$ li;
 3) $\angle AOD = 150^\circ$ li burchak yasang.



Berilgan ikkita burchakning gradus o'lchovlari teng bo'lsa, bu burchaklar o'zaro teng bo'ladi.

502. Transportir yordamida 15° ; 45° ; 39° ; 110° ; 90° ; 146° ; 79° ; 180° li burchaklar yasang. Bu burchaklar ichidan o'tmas burchaklarni ajratib yozing.

503. Burchaklar yasang:

1) 40° ; 60° ; 80° ; 90° ; 110° ; 160° ; 170° ;

2) 52° ; 75° ; 84° ; 126° ; 151° ; 164° ; 175° .

504. 1) to'g'ri burchakdan 25° kichik;

2) to'g'ri burchakdan 25° katta;

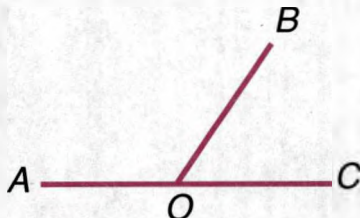
3) to'g'ri burchakning yarmi;

4) to'g'ri burchakning $\frac{1}{3}$ bo'lagiga teng burchaklar yasang.

505. Yoyiq burchakning $\frac{1}{3}$, $\frac{1}{6}$ bo'lagini topib burchak yasang.

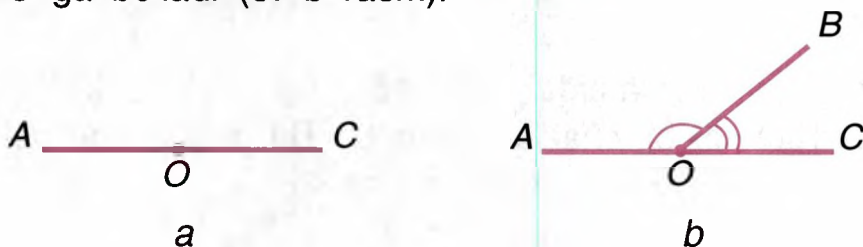
QO'SHNI BURCHAKLAR VA ULARNING YIG'INDISI

506. 36-rasmdagi burchaklarning turini aniqlang.



36-rasm.

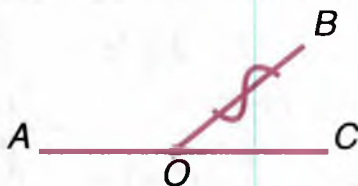
AOC yoyiq burchakni olib, undan OB (30-a rasm) nur o'tkzask, bu nur yoyiq burchakni ikki burchak: $\angle AOB$ va $\angle BOC$ ga bo'ladi (37-b rasm).



37-rasm.

Bu burchaklar *qo'shni burchaklar* deb ataladi.

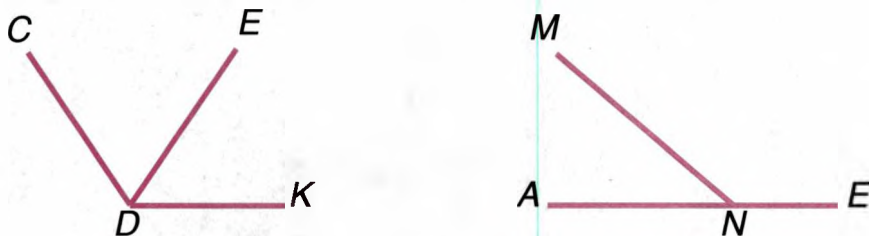
Qo'shni burchaklar umumiy OB tomonga ega. AC nur esa qolgan ikki AO va OC tomonlarni tashkil qiladi (38-rasm).



38-rasm.

$\angle AOB$ va $\angle BOC$ – qo'shni burchaklardir.

507. 1) $\angle CDE$ va $\angle EDK$; $\angle MNE$ va $\angle MNA$ burchaklar qo'shni burchak bo'la oladimi? (39-rasm).



39-rasm.

2) Transportir yordamida qo'shni burchaklar yasab, ularning yig'indisini hisoblang:



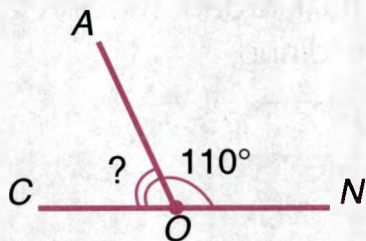
40- rasm.

$$\angle 1 + \angle 2 = 180^\circ$$



Qo'shni burchaklarning yig'indisi 180° ga tengdir. Ikkita qo'shni burchak bitta yoyiq burchakni tashkil qiladi.

508. Qo'shni burchaklardan birining kattaligi 110° ga teng (41-rasm). Ikkinchi burchakning gradus o'lchovini toping.



41- rasm.

$$\angle CON = 180^\circ$$

$$\angle AON = 110^\circ$$

$$\angle AOC = ?$$

Quyidagicha izohlaymiz: qo'shni burchaklarning yig'indisi 180° ga teng. Bitta AON qo'shni burchak kattaligi 110° ga teng bo'lsa, ikkinchi AOC burchakning kattaligini topish mumkin.

Yechish:

$$\angle AOC = 180^\circ - 110^\circ$$

$$\angle AOC = 70^\circ$$

509. 1) Qo'shni burchaklar ikkinchi juftining kattaligini toping (42-rasm).



42-rasm.

2) Burchaklardan birining kattaligi 30° ; 75° ; 105° ; 45° ; 165° ga teng qo'shni burchaklar chizing.

510. AOC burchagi va unga qo'shni bo'lgan burchak chizing. Burchaklarning yig'indisini toping.

511. ABD to'g'ri burchagi va unga qo'shni bo'lgan burchak chizing. Ikkinchi qo'shni burchakning kattaligini toping.

512. 40° li o'tkir burchak va unga 90° ; 115° ; 140° ; 60° li qo'shni burchak chizing.

513. 75° ; 8° ; 5° ; 150° ; 90° ; 105° kattaliklardan mosini tanlab, jadvaldagi qo'shni burchaklarni to'ldiring:

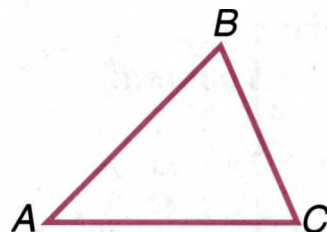
$\angle 1$	90°	?	?	75°	175°
$\angle 2$?	30°	105°	?	?

UCHBURCHAK BURCHAKLARINING YIG'INDISI

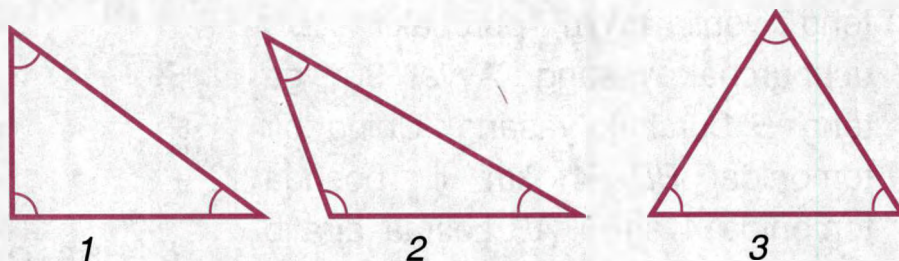
514. Qanday geometrik shakl uchburchak deb ataladi? Bir nechta uchburchak chizing.

515. 43-rasmga qarang. Uchburchakning tomonlari, burchaklari, balandligini va uchburchakning asosini toping. AB va BC tomonlar qanday nomlanadi?

516. Uchburchak burchaklarining turini ayting (44-rasm):



43-rasm.

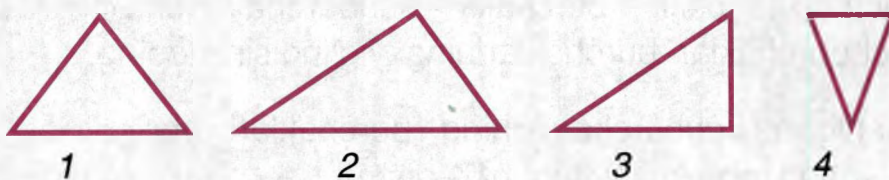


44-rasm.

Bitta burchagi to'g'ri bo'lgan uchburchak qanday nomlanadi?

Bir burchagi o'tmas burchak bo'lgan uchburchak qanday nomlanadi? Hamma burchaklari o'tkir burchaklar bo'lgan uchburchak-chi?

517. Uchburchaklar tomonlarining uzunligini o'lchang (37-rasm).



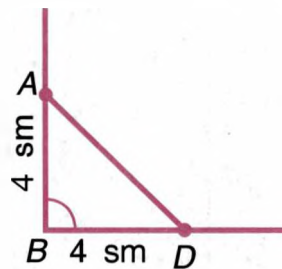
45-rasm.

Hamma tomonlari teng uchburchaklar qanday nomlanadi? Hamma tomonlari har xil uchburchaklar-chi? Ikki tomoni teng uchburchaklar-chi?

518. Sirkul, chizg'ich, transportir yordamida:

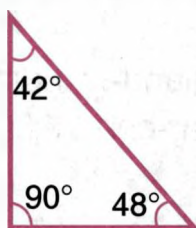
- 1) tomonlari har xil bo'lgan ABC uchburchak yasang. Transportir yordamida uchburchaklarning kattaliklarini o'lchab, yozing: $\angle A = \dots$, $\angle B = \dots$, $\angle C = \dots$.
 ABC uchburchakning burchak yig'indilarini hisoblab, yozing: $\angle A + \angle B + \angle C = \dots$;

2) teng yonli to'g'ri burchakli ABD uchburchak yasang. Avval 90° ga teng B burchak yasang. Uning bir tomonida $BD=4$ sm li, boshqa tomonida 4 sm li AB kesma ajratib oling. So'ng A va D nuqtalarni kesma yordamida birlashtirib $\triangle ABD$ hosil qiling. Transportir yordamida ushbu burchaklar kattaligini o'lchab, yig'indisini toping: $\angle A + \angle B + \angle D = \dots$

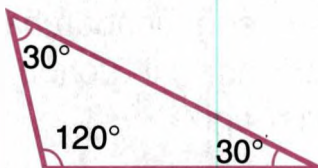


46-rasm.

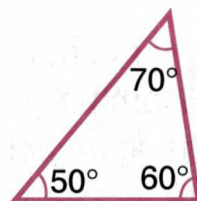
- 519.** O'tmas burchakli teng yonli uchburchak chizing; tomonlari har xil bo'lgan uchburchak chizing. Uchburchakning burchaklari yig'indisini toping.
- 520.** Uch xil o'tkir burchakli uchburchak chizing. Ushbu uchburchaklar burchaklarining yig'indisini toping.
- 521.** Berilgan uchburchaklarning burchaklari yig'indisini topib, ularning nomini ayting (47-rasm).



1



2



3

47-rasm.



Uchburchak uchala burchaklarining yig'indisi 180° ga teng.

522. Uchburchak burchaklarining yig'indisini toping:

a) $\triangle AOD$

$$\angle A = 60^\circ$$

$$\angle O = 40^\circ$$

$$\angle D = ?$$

b) $\triangle MNK$

$$\angle M = 30^\circ$$

$$\angle N = 60^\circ$$

$$\angle K = ?$$

d) $\triangle ABD$

$$\angle A = 30^\circ$$

$$\angle B = 40^\circ$$

$$\angle D = ?$$

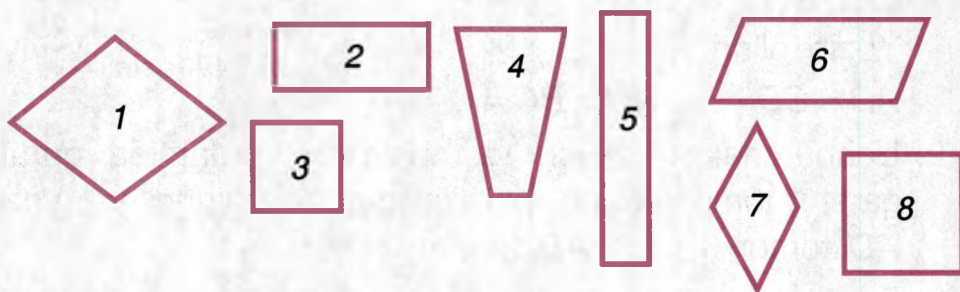
Ushbu uchburchaklarning turini ayting.

523. Quyidagi o'lchamlar asosida to'rtta uchburchak chizing:

$\angle 1$	100°	90°	30°	60°
$\angle 2$	50°	25°	65°	40°
$\angle 3$	30°	75°	45°	80°

PARALLELOGRAMM (ROMB)

524. 48-rasmda qanday ko'pburchaklar tasvirlangan? Hamma burchaklari to'g'ri bo'lgan to'g'ri to'rtburchaklar yasang. Ushbu to'g'ri to'rtburchaklarning nomini ayting:



48-rasm.

525. Ta'riflang.

To'g'ri to'rtburchak deb ...

Kvadrat deb ...

526. a) tomonlari 5 sm va 2 sm bo'lgan to'g'ri to'rtburchak;
b) tomonlari 3 sm bo'lgan kvadrat yasang.

Savollarga javob bering:

- 1) To'g'ri to'rtburchak, kvadrat tomonlari uzunliklari haqida nima deyish mumkin?
- 2) To'g'ri to'rtburchakning qarama-qarshi tomonlari haqida nima deyish mumkin?
- 3) To'g'ri to'rtburchak va kvadratda nechta diagonal bo'ladi?
- 4) To'g'ri to'rtburchak va kvadrat diagonallari uzunliklari qanday bo'ladi?
- 5) To'g'ri to'rtburchak va kvadrat burchaklarining kattaligi qanday?
- 6) To'g'ri to'rtburchak va kvadratning o'xshash va farqli tomonlari nimada?

527. 49-rasmdagi to'rtburchakka qarang.

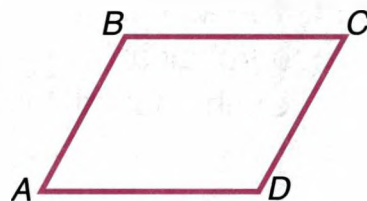
- 1) $ABCD$ to'rtburchagi tomonlarini o'lchang.

Yozib oling:

$$AB = CD = \dots; AD = BC = \dots$$

- 2) Uchburchak chizg'ich va chizg'ich yordamida qarama-qarshi tomonlarning paralleligini tekshiring va yozing:
 AD tomon $\parallel \dots$; AB tomon $\parallel \dots$

- 3) Berilgan to'g'ri to'rtburchak burchaklarining turlarini ayting: $\angle A, \angle C - \dots$; $\angle B, \angle D - \dots$

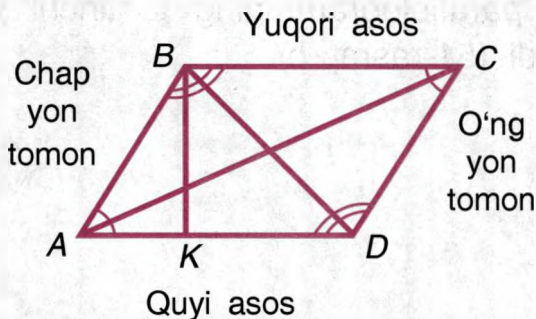


49-rasm.



Har bir tomoni qarama-qarshi tomoniga parallel bo'lgan to'rtburchak **parallelogramm** deyiladi.

528. 50-rasmdagi parallelogrammni ko'rib chiqing.

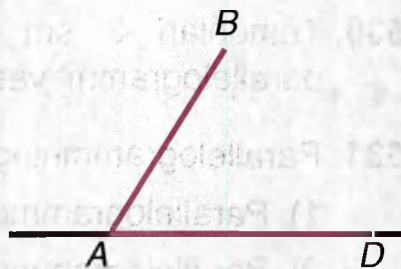


50-rasm.

- 1) BK – parallelogramm balandligi. B nuqtadan quyi asosga perpendikular tushiramiz.
- 2) AC va BD – parallelogramm diagonallari. Diagonallarni o'lchab yozing: $AC = \dots$; $BD = \dots$. Parallelogramm diagonallari tengmi?
- 3) Transportir yordamida parallelogramm burchaklarini o'lchab, yozing:
 $\angle A = \dots$; $\angle B = \dots$; $\angle C = \dots$; $\angle D = \dots$.
 Qaysi burchaklar teng? $\angle A = \angle \dots$; $\angle B = \angle \dots$.

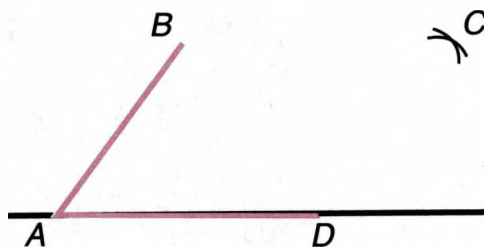
529. Transportir, chizg'ich, sirkul yordamida tomonlari 5 sm va 3 sm bo'lgan $ABCD$ parallelogramm yasang.

- 1) To'g'ri chiziqdagi A nuqtadan $AD = 5$ sm kesma belgilang va A nuqtadan burchak yasang (51-rasm, a).
- 2) Burchak tomonidagi A nuqtadan $AB = 3$ sm belgilang. B nuqtadan sirkul yordamida 5 sm uzoqlikda va D nuqtadan



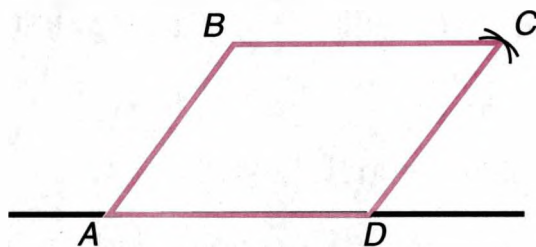
51-rasm, a

3 sm uzoqlikda yoy belgilang. Yo'lar C nuqtada kesishib, parallelogrammning to'rtinchi yuqori nuqtasini hosil qiladi (51-rasm, b).



51-rasm, b

3) B va D nuqtalarni to'g'ri chiziq orqali C nuqta bilan birlashtirsak, $ABCD$ parallelogramm hosil bo'ladi (51-rasm, d).



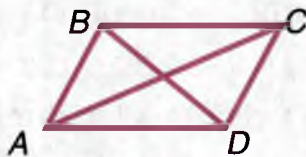
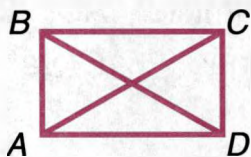
51-rasm, d

530. Tomonlari 3 sm va 2 sm; 6 sm va 3 sm bo'lgan parallelogramm yasang.

531. Parallelogrammning asosiy xossalarini ta'riflab bering.

- 1) Parallelogrammning qarama-qarshi tomonlari ...
- 2) Parallelogrammning burchaklari ...
- 3) Parallelogrammning diagonallari ...

532. Hamma burchaklari to'g'ri parallelogramm yasang. Hosil bo'lgan shaklni yana qanday atash mumkin?
533. Jadvalga (52-rasm) to'g'ri to'rtburchak va parallelogrammning o'xshash tomonlari hamda farqini yozing.



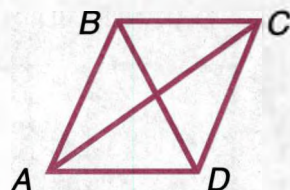
52-rasm.

O'xshash tomonlari	
Farqi	

534. 1) $ABCD$ parallelogrammning tomonlarini o'lchab yozing:

$AB = \dots$; $BC = \dots$; $CD = \dots$; $AD = \dots$.

$ABCD$ parallelogrammning tomonlari haqida nima deyish mumkin?



53-rasm.



Barcha tomonlari bir-biriga teng bo'lgan parallelogramm **romb** deyiladi.

- 2) Rombning diagonallarini o'lchab yozing: $AC = \dots$; $BD = \dots$. Rombning diagonallari o'zaro

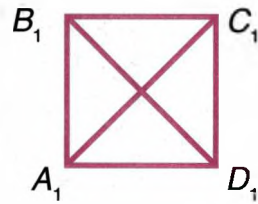
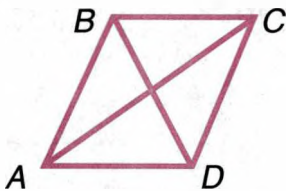
3) Rombning burchaklarini o'lchab yozing:

$$\angle A = \dots ; \angle B = \dots ; \angle C = \dots ; \angle D = \dots .$$

Rombning qarama-qarshi burchaklari

535. 54-rasmdagi parallelogrammga qarang. Bu geometrik shakllarni yana qanday atash mumkin? AC , BD , A_1C_1 va B_1D_1 kesmalar qanday nomlanadi? AC va BD , A_1C_1 va B_1D_1 diagonallari tengmi?

Kvadrat va rombning burchaklarini o'lchab, ularning turlarini aniqlang:



54-rasm.

536. Geometrik shakllarning nomini ayting va ularning balandligini toping (55-rasm):



55-rasm.

537. Tomonlari:

1) $a = 35$ mm

$b = 20$ mm

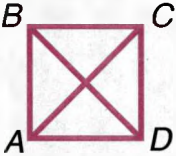


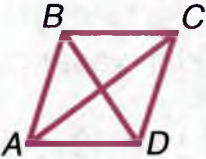
2) $a = 6$ sm

$b = 45$ mm

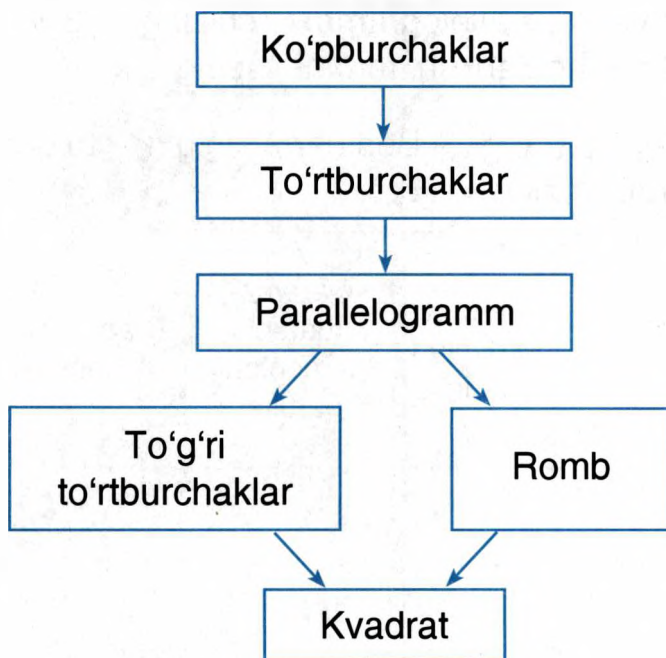
bo'lgan ikkita parallelogramm chizing va ularning balandligini toping.

538. Romb va parallelogramm chizing. Bu shakllarning o'xshash tomonlari va farqini toping.

539. Jadvalga qarang. Berilgan to'g'ri to'rtburchaklarning xossalari yozing.

	Barcha tomonlari teng	Qarama-qarshi tomonlari parallel	Diagonallari teng	Hamma burchaklari 90° ga teng
				
				
				

Ko'pburchaklar orasida to'rtburchaklar;
to'rtburchaklar orasida – parallelogrammlar;
parallelogrammlar orasida – to'g'ri to'rtburchaklar va romblar;
to'g'ri to'rtburchaklar va romblar orasida kvadratlar bor
(56-rasm).



56-rasm.

- 540.** Hamma tomonlari teng to'g'ri burchakli parallelogramm qanday nomlanadi? Ushbu shaklni yasang.
- 541.** Hamma tomonlari 30 mm ga teng parallelogramm yasang. U qanday nomlanadi? Ushbu shaklni yasang.
- 542.** 1) Tomonlari 2 sm li to'g'ri burchakli romb yasang. Ushbu geometrik shakl yana qanday nomlanadi?
- 2) Barcha tomonlari 4 sm ga teng parallelogramm yasang. Hosil bo'lgan shakl qanday nomlanadi?
- 3) Tomonlari uzunligi 5 sm va 3 sm hamda barcha burchaklari teng parallelogramm yasang.
- 4) Hamma tomonlari uzunligi 40 mm ga teng, burchaklari esa to'g'ri parallelogramm qanday nomlanadi?

5) Tomonlari 5 sm ga teng to'g'ri to'rtburchakni yana qanday atash mumkin?

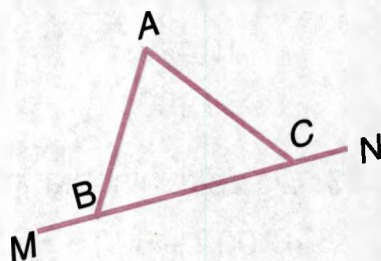
543. Gaplarni to'ldirib yozing:

1. Har bir tomoni ... bo'lgan to'rtburchak parallelogramm deyiladi.
2. Barcha burchaklari ... bo'lgan parallelogramm to'g'ri to'rtburchak deyiladi.
3. Barcha tomonlari ... parallelogramm romb deyiladi.
4. Burchaklari ... bo'lgan romb kvadrat deyiladi.
5. Diagonallari bo'lgan romb kvadrat deyiladi.

544. AB va unga qo'shimcha nur chizing. Har bir nurda 3 sm 5 mm li kesma ajrating.

545. 57-rasmda 3 ta nuqta belgilangan. Uchta kesma, bitta to'g'ri chiziq va 4 ta nurni ko'rsating.

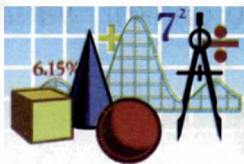
546. AB kesmaning uzunligi 4 sm 2 mm ga teng. CD kesma AB kesmadan 8 mm uzunroq bo'lsa, AB va CD kesmalarni chizing.



57-rasm.

547. Uchta bir xil kesmadan iborat sinq chiziq chizing va uzunligini hisoblang.

548. Ikkita uchburchak chizing. Ulardan biri to'g'ri burchakli, ikkinchisi o'tmas burchakli bo'lsin.



TAKRORLASH

549. Sonlarni o'qib, sinf xonalariga ajratib yozing:

3897; 52000; 603, 2078; 26708; 50008; 34010.

550. Sonlarni raqamlar bilan yozing:

Yigirma besh ming yetti yuz sakkiz; qirq ming yigirma olti; yuz ming; o'n ikki ming ellik.

551. Eng katta va eng kichik besh xonali sonni yozing.

552. Berilgan har bir sondan oldin va keyin keladigan sonlarni yozing:

...; 10429;; 52301;; 30499; ...

...; 69999;; 70000;; 99999; ...

553. Og'zaki hisoblang:

$$47000 + 800 \qquad 54100 + 3000$$

$$62000 - 2000 \qquad 25000 + 50000$$

$$71200 - 1200 \qquad 63000 - 40000$$

554. Yig'indini toping.

$$26312 + 5603 + 30907 \qquad 72009 + 8906 + 254$$

$$708 + 35442 + 6200 \qquad 64 + 2009 + 15123$$

$$42010 + 96 + 4503 \qquad 3072 + 456 + 24564$$

Qo'shishning qaysi usulidan foydalandingiz?

555. Ayirmani toping:

20 100 – 3 500

16 243 – 952

40 000 – 16 703

90 909 – 35 897

80 101 – 69 293

21 040 – 12 432

52 630 – 30 748

100 000 – 63 052

556. Maktab xo'jaligida tovuqlarni boqish uchun ikki qop don sotib olindi. Donning 63 kg i sarflanganda 86 kg don qoldi. Hammasi bo'lib necha kilogramm don sotib olingan?

557. O'quvchi qiz 2 m li sharf to'qimoqchi bo'lib, bir kunda 87 sm ini to'qib bo'ldi. O'quvchi qiz yana qancha uzunlikda sharf to'qishi kerak?

558. Maydaroq o'lchov birliklarda ifodalang:

5 sm = ... mm

34 km = ... sm

8 kg = ... g

9 sr = ... kg

3 t 2 kg = ... kg

4 km 15 m = ... m

60 kg = ... g

8 sr 6 kg = ... kg

6 sm 7 mm = ... mm

9 t 5 sr = ... sr

3 km = ... m

5 m 6 mm = ... mm

559. Yirikroq o'lchov birliklarda ifodalang:

78 mm

92 sr

160 sm

1 205 sm

3 608 kg

4 009 g

5 036 m

9 000 mm

81 305 kg

25 163 kg

80 025 g

15 600 m

560. Misollarni yeching:

35 kg 197 g + 16 kg 893 g – 640 g

40 t – 3 sr + 8 t 9 sr

312 sr 20 kg + 428 sr 90 kg – 35 kg

5 t – (678 g + 1 t 543 kg)

561. Amudaryoning uzunligi 1437 km, Zarafshon daryosining uzunligi 781 km bo'lib, u Amudaryo uzunligidan qanchaga kam?

562. 12 m 65 sm li tasmadan 6 m 80 sm qirqib olinsa, tasmaning qaysi bo'lagi kaltaroq bo'ladi: qolgan bo'lagimi yoki qirqib olingan bo'lagimi? Qanchaga kaltaroq bo'ladi?

563. Ko'paytmani toping:

$386 \cdot 10$	$6501 \cdot 10$	$204 \cdot 9$	$100 \cdot 176$
$100 \cdot 35$	$10 \cdot 100$	$360 \cdot 8$	$803 \cdot 100$
$1000 \cdot 92$	$293 \cdot 0$	$496 \cdot 5$	$9 \cdot 318$

564. Bo'linmani toping:

$300 : 100$	$80000 : 1000$	$3015 : 5$
$600 : 10$	$32400 : 100$	$4612 : 3$
$5100 : 1000$	$1050 : 10$	$3004 : 4$

565. Maktab-internatga 15 bog'lam rasm albomi va 10 bog'lam chizmachilik albomi olib kelindi. Har bir bog'lamda 9 tadan albom bo'lsa, hammasi bo'lib qancha albom olib kelindi?

566. Dehqon bozorga har birida 60 kg dan 10 qop kartoshka olib kelib sotdi. Har bir kilogramm kartoshkaning narxi so'm bo'lsa, dehqon necha so'mlik kartoshka sotgan?

567. Ko'paytmani toping:

$640 \cdot 30$	$504 \cdot 50$	$415 \cdot 36$
$250 \cdot 80$	$108 \cdot 60$	$807 \cdot 27$
$630 \cdot 40$	$200 \cdot 90$	$196 \cdot 18$

568. Bo‘linmani toping:

$3600:50$	$61\,200:90$	$22\,050:35$
$2\,500:50$	$37\,500:50$	$39\,424:56$
$1\,200:60$	$41\,400:60$	$56\,550:87$

569. Misollarni yeching:

$250 \cdot 36 + 8\,314$	$(2\,703 + 6\,937) \cdot 10$
$109 \cdot 45 - 935$	$10\,000 - 9\,522:9$
$(7\,987 - 2\,113) \cdot 100$	$2\,630 + 1\,216 \cdot 50$

570. Xaltada 2 kg shakar bor edi. Ona qanddonga 250 g dan 5 marta shakar solsa, xaltada qancha shakar qoladi?

571. Massasi 500 g li bir banka smetana sotib olindi. Uning $\frac{1}{4}$ qismi sarflansa, bankada qancha smetana qoladi?

572. Oromgoh oshxonasiga 1350 kg sabzavot olib kelindi. Hamma sabzavotlarning uchdan bir qismi pomidor, beshdan bir qismi bodring, qolgan qismi karam bo‘lsa, oshxonaga qancha karam olib kelingan?

$100\,000:25 + 203 \cdot 15$	$3\,005 \cdot 31 - 3\,456 + 4\,009$
$80\,095 - 3\,412 + 25\,852:46$	$3\,604 \cdot 23 + 16\,095:15$
$100\,000 - 43\,578:9 \cdot 13$	$100\,000:50 \cdot 24 - 2\,891$

574. Kasrlarni taqqoslang:

$3,700 \dots 3,8$	$4,25 \dots 4,025$	$18,040 \dots 18,04$
$5,06 \dots 5,60$	$0,001 \dots 0,1$	$50,30 \dots 50,300$

575. Misollarni yeching:

$4,68 + 0,19$	$21,02 - 5,64$	$32,7 + 6,82$
$0,09 + 25,3$	$4,415 - 3,918$	$4 - 0,6$

$6,3 + 4,91$

$12,3 - 2,56$

$1 - 0,99$

$30,2 + 0,8$

$4,9 - 1,004$

$6,003 - 4,5$

576. Misollarni yeching:

$15,7 + 11,2$

$18,91 + 14,7$

$14,7 - 6,3$

$2 - 6,3$

$2,14 + 5,6$

$40,5 + 12,9$

$8,04 - 7,2$

$14 - 5,72$

$19,3 + 2,37$

$0,02 + 9,091$

$10,2 - 9,13$

$1 - 0,9$

577. Amallarni bajaring:

$1) 3 \text{ km } 163 \text{ m} \cdot 23$

$6 \text{ kg} : 50$

$5 \text{ t } 600 \text{ kg} \cdot 30$

$80 \text{ t } 528 \text{ kg} : 4$

$51 \text{ sr} : 25$

$52 \text{ km } 590 \text{ m} : 15$

$3 \text{ m } 56 \text{ sm} \cdot 24$

$3 \text{ sm} : 6$

$32 \text{ sm } 6 \text{ mm} \cdot 35$

$2) (9 \text{ sr } 6 \text{ kg} + 29 \text{ sr } 58 \text{ kg}) \cdot 20 - 108 \text{ sr } 6 \text{ kg}$

$(30 \text{ m } 16 \text{ sm} + 11 \text{ m } 9 \text{ sm}) \cdot 8 - 86 \text{ m} : 50$

$3 \text{ t } 205 \text{ kg} + 7 \text{ t } 4 \text{ kg} \cdot 80 : 40 - 653 \text{ kg}$

578. 1) Tomonlari 32 mm va 54 mm bo'lgan to'rtburchak;

2) tomonlari 4 sm 7 mm va 2 sm 5 mm bo'lgan parallelogramm;

3) tomonlari 4 sm bo'lgan romb;

4) tomonlari 30 mm li va to'g'ri burchakli romb chizing.

579. Amallardan misol tuzib yeching:

1) O'ttiz besh mingni 7 mingta kamaytiring.

2) Uch ming besh yuz sakkizni 7 marta orttiring.

3) Uch ming besh yuz sakkizni 7 ta orttiring.

4) O'ttiz besh mingni 7 marta kamaytiring.

- 580.** Bir mashinada 3,4 t, ikkinchisida undan 0,85 t ko'p yuk bor. Ikkala mashinada qancha yuk bor?
- 581.** AB kesmaning uzunligi 4,7 sm, BC kesmaning uzunligi AB kesmaning uzunligidan 1,8 sm uzunroq bo'lsa, ABC sinq chizig'ining uzunligini toping.
- 582.** Shahardan tuman markaziga 45 km/soat tezlik bilan yuk mashinasi ketyapti. Tuman markazigacha 90 km masofani mashina necha soatda bosib o'tadi? 180 km masofani-chi?
- 583.** 65 km/soat tezlik bilan yurgan poyezd 8 soatda qancha masofani bosib o'tadi?
- 584.** Amallarni bajaring:
- | | |
|-----------------------------------------|--------------------|
| $59\,695 + 208 \cdot (2\,000 - 1\,938)$ | $4,306 + 7 - 9,48$ |
| $64\,512 - 32\,512 : (1\,002 - 938)$ | $0,004 + 11,5 - 8$ |
- 585.** Misollarni yeching:
- $26 \text{ sr } 1 \text{ kg} \cdot 32 + 8 \text{ sr } 35 \text{ kg} \cdot 19$
 $(16 \text{ m } 39 \text{ sm} + 25 \text{ m } 73 \text{ sm}) : 10$
 $(75 \text{ t } 160 \text{ kg} - 32 \text{ t } 481 \text{ kg}) \cdot 10$
- 586.** Tomonlari 0,45 m li kvadrat shaklidagi sochiqning atroflarini to'r bilan tikish uchun qancha to'r sotib olish mumkin?
- 587.** Xo'jalik hammasi bo'lib 4195 kg olma terib oldi. Hosilning yarmisi sotishga, $\frac{1}{10}$ qismi maktab oshxonalariga, qolgan qismi esa sharbat ishlab chiqarishga jo'natildi. Sharbat ishlab chiqarishga qancha olma jo'natilgan?

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**Abdulla Axatov, Margarita Saydaliyeva,
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