



Ustoz ko'makchi
metodik markazi

2
sinf

✓ Mavzulashtirilgan

✓ Uzlüksiz metodli

Matematika

yozuv kitobi

Maktab dasturini o'zlashtirishda
ko'makchi qo'llanma



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2-sinf MATEMATIKA

Yozuv kitobi

Maktab dasturini o‘zlashtirishda ko‘makchi qo‘llanma
2 -Qism

“Ustoz ko‘makchi metodik markazi” tomonidan tuzilgan.

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16-Dars

Qo'shish va ayirishga doir masalalar



Namuna masala: Milliy hunarmandchilik do'konida birinchi kuni 36 ta, ikkinchi kuni undan 14 ta ko'p so'zanalalar sotildi. Ikkinchi kuni nechta so'zana sotilgan?

Berilgan: *Birinchi kuni - 36 ta*

Ikkinchi kuni - ?, 14 ta ko'p

Yechilishi: $36 + 14 = 50$

Javobi: *50 ta*



1

"Artel" korxonasida 48 ta turdagi mahsulot ishlab chiqariladi. "Samsung" korxonasida esa bundan 17 taga ko'p turdagi mahsulot ishlab chiqariladi. "Samsung" korxonasi-da nechta turdagi mahsulot ishlab chiqariladi?

Berilgan:

Yechilishi:

Javobi:

A) 31 B) 65 C) 38 D) 57

2

Birinchi tovuq fermasi bir kunda 67 ta tuxum beradi. Ikkinchi ferma esa bundan 25 taga ko'p tuxum beradi. Ikkinchi ferma bir kunda nechta tuxum beradi?

Berilgan:

Yechilishi:

Javobi:

A) 94 B) 44 C) 42 D) 92

- 1 Chevar xola 59 ta naqshli do'ppilar va ulardan 27 taga ko'p naqshsiz do'ppilar tikdi. Naqshsiz do'ppilar soni nechta?

Berilgan:

Yechilishi:

Javobi:

A) 22 B) 50 C) 64 D) 86



- 2 Oyisha ertalab 28 bet, tushlikdan keyin esa undan 13 bet ko'proq kitob o'qidi. Tushlikdan keyin u nechta bet o'qigan?

Berilgan:

Yechilishi:

Javobi:

A) 15 B) 41 C) 56 D) 42

- 3 Zilola 33 ta maqolni yoddan biladi. Shalola undan 7 ta ko'p maqolni yoddan biladi. Shalola nechta maqolni yod olgan?

Berilgan:

Yechilishi:

Javobi:

A) 38 B) 26 C) 40 D) 28

- 4 Ishkomdan 48 chelak Husayni uzum terildi. Kishmish uzum undan 24 chelak ko'proq terildi. Kishmish uzumdan nechta chelak terilgan?

Berilgan:

Yechilishi:

Javobi:

A) 64 B) 24 C) 36 D) 72

17-Dars

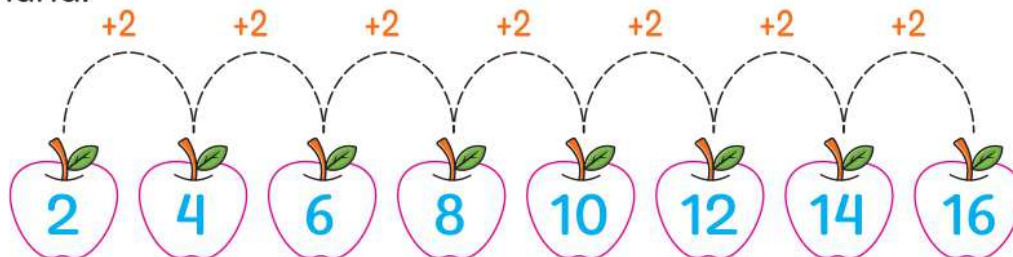
Sonlar va shakllar ketma-ketligi



Sonlar yoki shakllar ketma-ketligi shunday sonlar yoki shakllar to'plamiki, ularning ikkinchisidan boshlab har biri o'zidan oldin-
gisiga ma'lum bir qonuniyat asosida bog'lanib turadi.

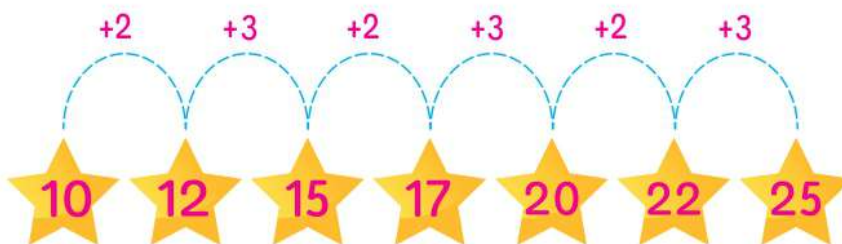
1) Sonlar bir xil songa ortib yoki kamayib borishi mumkin.

Namuna:



2) Sonlar ma'lum bir qonuniyat asosida ortib yoki kamayib borishi mumkin.

Namuna:



1

Berilgan qonuniyatga ko'ra ketma-ketlikni davom ettiring.

2 ga ko'p	12	-	14	-	16	-		-		-		-	
3 ga ko'p	32	-		-		-		-		-		-	
5 ga kam	35	-	30	-		-		-		-		-	
3 ga kam	33	-		-		-		-		-		-	



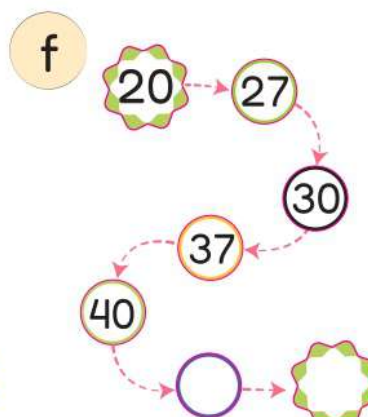
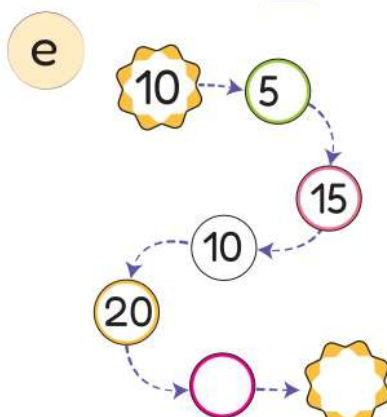
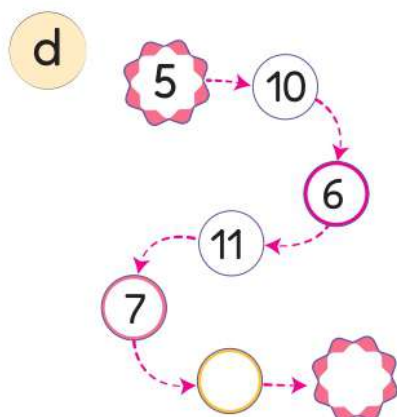
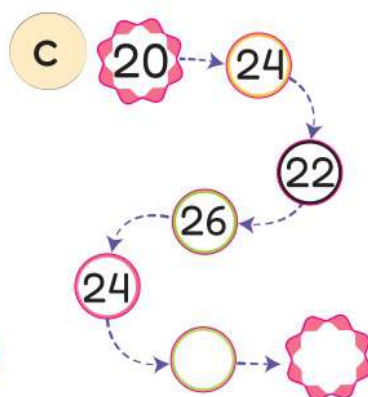
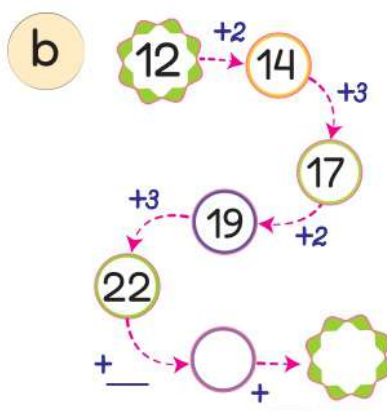
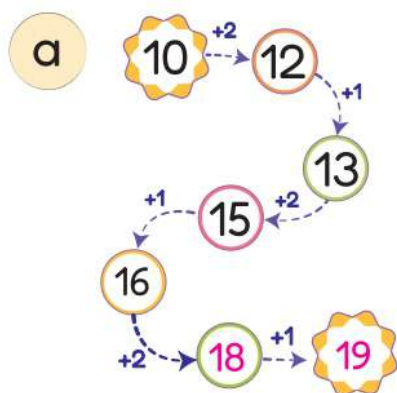
2

Berilgan ketma-ketlikka ko'ra qonuniyatni aniqlab, ketma-ketlikni davom ettiring.

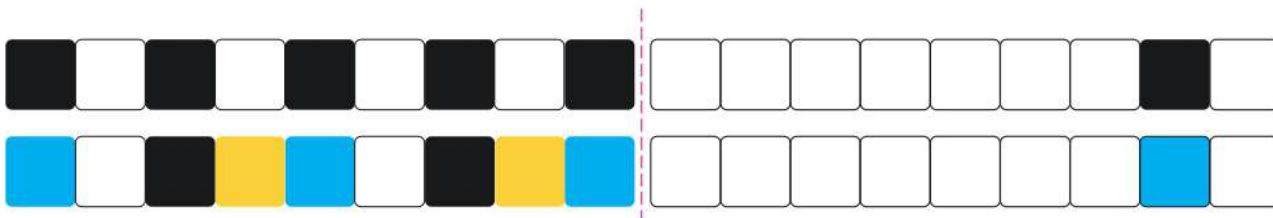
1	2	3	1	2	3	1	2	3			
U	Z	B	U	Z	B	U	Z	B			
7	7	1	7	7	1	7	7	1			

3

Berilgan sonlarga ko'ra qonuniyatni aniqlab, shunga ko'ra ketma-ketlikni davom ettiring.



- 4 Usta plitkalarini qat'iy ketma-ketlik qonuniyatiga asoslanib termogda. Plitkalarini bo'yash bilan uning ishini davom ettiring.



- 5* Sonli ketma-ketlikdagi mevalar o'rnidagi sonlarni toping va

- - = 1 ekanligini isbotlang.

23, 20, 17, , 11, 8, ...

=

7, 12, 17, , 27, 32, ...

=

7, 8, 8, 7, 8, 8, , 8, 8, ...

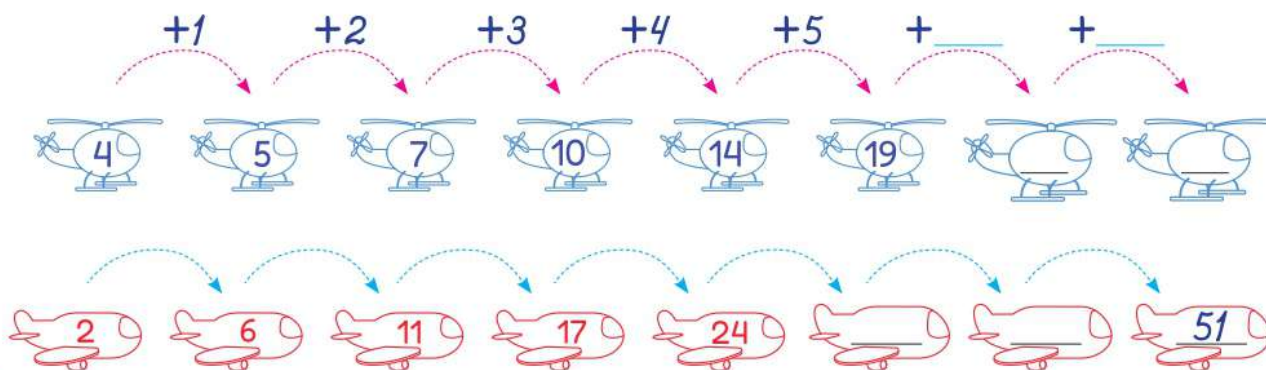
=

- - = ?

- - =

=

- 6* Berilgan ketma-ketlikka ko'ra qonuniyatni aniqlab, ketma-ketlikni davom ettiring.



4 Ayirmani toping. Misolni to'g'ri ishlaganingizni bilish uchun natijani tekshirib ko'ring.

$25 - 17 = 8$	tekshirish:	$8 + 17 = \square \square$	✓
$52 - 45 = \square$	tekshirish:	$\square + \square = \square \square$	
$44 - 36 = \square$	tekshirish:	$\square + \square = \square \square$	
$65 - 24 = \square \square$	tekshirish:	$\square \square + \square \square = \square \square$	
$87 - 43 = \square \square$	tekshirish:	$\square \square + \square \square = \square \square$	
$38 - 19 = \square \square$	tekshirish:	$\square \square + \square \square = \square \square$	

5 Ayirish amali natijalarini tekshiring. Namunadagidek, *to'g'ri* yoki *noto'g'ri* ishlanganligini yozing.

33 - 21 = 13	Tekshirish:	$13 + 21 = 34$	Demak, misol <i>noto'g'ri</i> ishlangan.
92 - 48 = 54	Tekshirish:		Demak, misol _____ ishlangan.
75 - 20 = 55	Tekshirish:		Demak, misol _____ ishlangan.
64 - 25 = 49	Tekshirish:		Demak, misol _____ ishlangan.
50 - 11 = 39	Tekshirish:		Demak, misol _____ ishlangan.
84 - 24 = 61	Tekshirish:		Demak, misol _____ ishlangan.

6 Tenglik to'g'ri bo'lishi uchun katakchalar ichiga mos keluvchi sonlarni topamiz va tekshirib ko'ramiz.

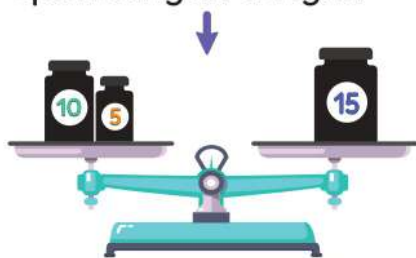
				tekshirish	
$\square - 20 = 30$	→	$\square = 20 + 30$	→	$\square = 50$	→ $50 - 20 = 30$ ✓
$\square - 35 = 40$	→	$\square = \square + \square$	→	$\square = \square$	→ $\square - 35 = 40$ ✓
$\square - 26 = 46$	→	$\square = \square + \square$	→	$\square = \square$	→ $\square - 26 = 46$ □
$\square - 18 = 32$	→	$\square = \square + \square$	→	$\square = \square$	→ $\square - 18 = 32$ □
$\square - 44 = 56$	→	$\square = \square + \square$	→	$\square = \square$	→ $\square - 44 = 56$ □

20-Dars.

Tenglamalar. Noma'lum qo'shiluvchini topish

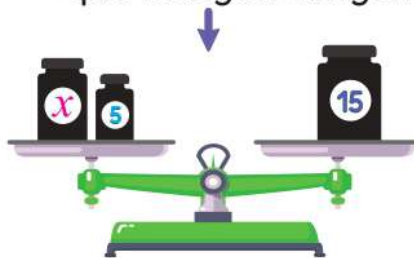


Ma'lum sonlar
qatnashgan tenglik



$$10 + 5 = 15$$

Noma'lum son (x)
qatnashgan tenglik



$$x + 5 = 15$$



Qo'shish va ayirishga doir tenglamalarda noma'lum son 3 o'rinda keladi:

1. Noma'lum qo'shiluvchi o'rnida : $x + 20 = 30$
2. Noma'lum kamayuvchi o'rnida : $x - 20 = 30$
3. Noma'lum ayriluvchi o'rnida : $20 - x = 10$

Noma'lum son qatnashgan tenglik – **tenglama** deyiladi.
Noma'lum son harf bilan belgilanadi.

Tenglamani to'g'ri tenglikka aylantiruvchi songa – **tenglamaning ildizi** deyiladi.

Namuna: Rasmga qarab tenglama tuzishni va uni yechishni o'rganamiz.



Tenglama

$$8 + x = 18$$

Yechish

$$x = 18 - 8$$

$$x = 10$$

Tekshirish

$$8 + 10 = 18$$

$$18 = 18$$

YODDA TUTING!

Noma'lum son qo'shiluvchilardan biri bo'lganda, uni topish uchun yig'indidan ikkinchi qo'shiluvchini ayirish kerak.

Demak, tenglamaning ildizi **10** ga teng.

1 Rasmga qarab tenglama tuzamiz va uning ildizini topamiz.

1)



Tenglama: $12 + x = 27$

Yechish:

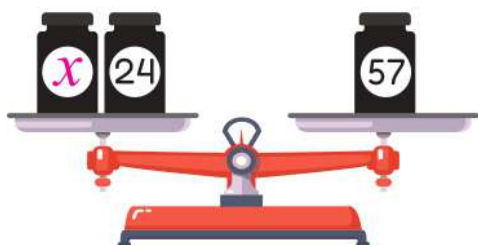
Demak, tenglamaning ildizi ga teng.

Tekshirish

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2)



Tenglama:

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Yechish:

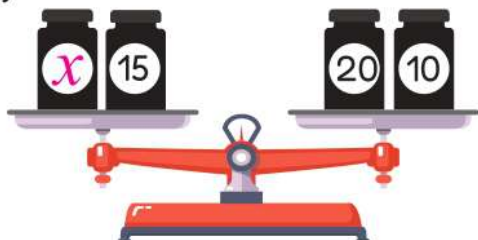
Demak, tenglamaning ildizi ga teng.

Tekshirish:

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3)



$x + 15 = 20 + 10$

$x + 15 = 30$

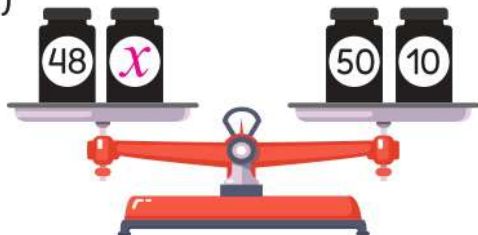
$x = 30 - 15$

$x = 15$

Tekshirish:

$15 + 15 = 20 + 10$ $30 = 30$

4)



Tenglama:

--	--	--	--	--	--	--

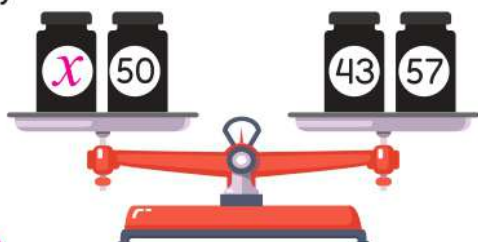
Yechish:

Tekshirish:

--	--	--	--	--	--	--

--	--	--

5)



Tenglama:

--	--	--	--	--	--	--

Yechish:

Tekshirish:

--	--	--	--	--	--	--

--	--	--



Eslaymiz:

Noma'lum qo'shiluvchini topish uchun yig'indidan ma'lum qo'shiluvchini ayirish kerak.

Masalan: 1) $x+5=15$ $x=15-5$ $x=10$. 2) $8+x=17$ $x=17-8$ $x=9$.

2

Tenglamalarni namunadagi kabi yeching.

1) $x + 16 = 40$

$$x = 40 - 16$$

$$x = 24$$

Tekshirish

$$24 + 16 = 40$$

$$40 = 40$$

2) $x + 25 = 50$

3) $x + 60 = 77$

4) $38 + x = 38$

5) $75 + a = 92$

6) $40 + y = 80$

7) $13 + a = 45 + 36$

$$13 + a = 81$$

$$a = 81 - 13$$

$$a = 68$$

$$T: 13 + 68 = 45 + 36$$

$$81 = 81$$

8) $x + 48 = 25 + 24$

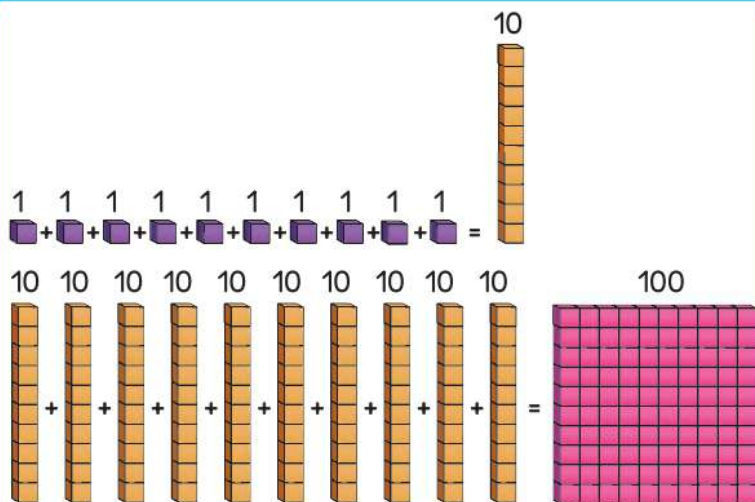
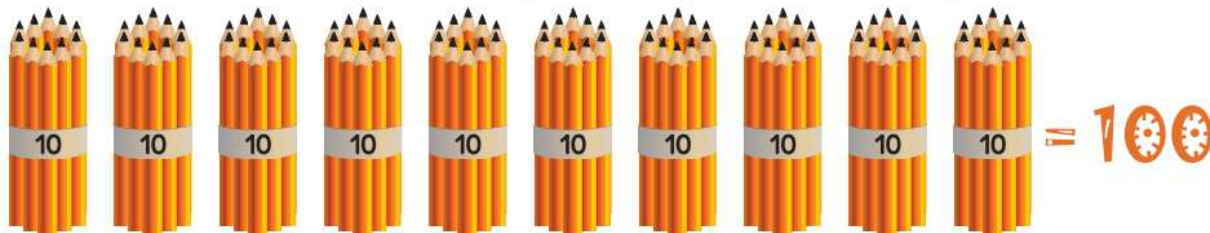
9) $57 + c = 40 + 17$

24-Dars

Uch xonali sonlar



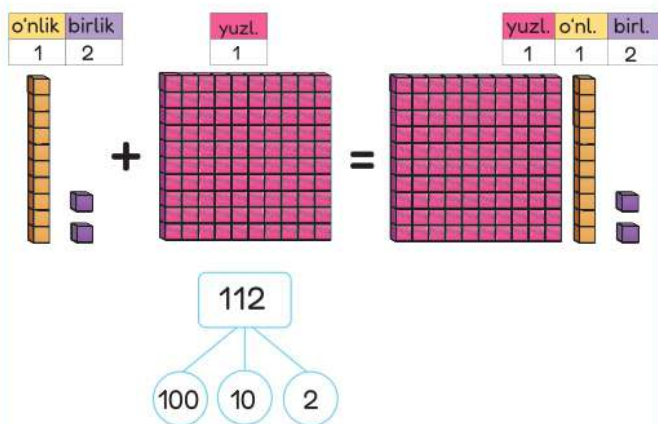
Har biri 10 tadan bo'lgan 10 ta qalam bog'lamida 100 ta qalam bo'ladi.



1 birlik = 1

10 birlik = 1 o'nlik

10 o'nlik = 1 yuzlik = 100



235 soni qanday hosil bo'ladi?

100	10	1
yuzlar xonasi	o'nlar xonasi	birlar xonasi
2 ta yuzlik	3 ta o'nlik	5 ta birlik
2	3	5

235



1 Kubikchalarning ostiga hosil bo'lgan sonlarni yozamiz.

Son: 4 3 0	Son:	Son:
Son:	Son:	Son:

2 Uch xonali sonlarni namunadagidek yozamiz.

Yuzlik	O'nlik	Birlik
1	1	2

Yuzlik	O'nlik	Birlik

3 Sonlarni xona birliklari yig'indisi ko'rinishida yozing.

$$147 = 1 \text{ yuzlik} + 4 \text{ o'nlik} + 7 \text{ birlik} = 100 + 40 + 7$$

$$372 = \square \text{ yuzlik} + \square \text{ o'nlik} + \square \text{ birlik} = \square + \square + \square$$

$$284 = \square \text{ yuzlik} + \square \text{ o'nlik} + \square \text{ birlik} = \square + \square + \square$$

$$46 = \square \text{ o'nlik} \quad \square = \square + \square$$

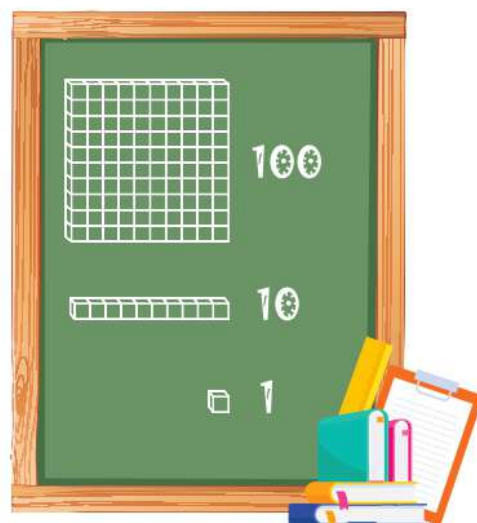
$$618 = \square \quad \square \quad \square = \square + \square + \square$$

$$205 = \square \quad \square \text{ birlik} = \square + \square$$

$$450 = \square \quad \square = \square + \square$$

4 Xona birliklariga mos sonlarni yozing.

Xona birliklari			Son
1 yuzlik	3 o'nlik	7 birlik	137
4 yuzlik	8 o'nlik	2 birlik	
8 yuzlik	5 o'nlik		
5 yuzlik	9 o'nlik		
7 yuzlik	3 o'nlik		
9 yuzlik	2 o'nlik	6 birlik	
2 yuzlik	8 birlik		
6 yuzlik	1 o'nlik	5 birlik	



5 Sonlarning har bir xonasidagi raqamlarning qiymatini yozing.

4	2	5
400	20	5

5	4	1

3	1	0

4	0	0

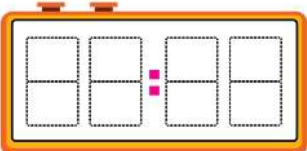
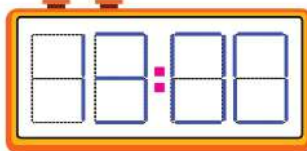
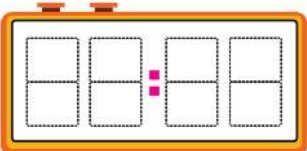
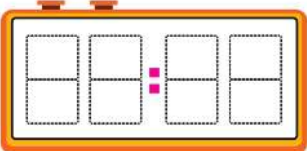
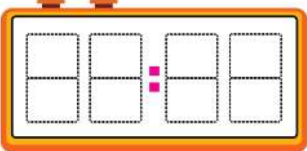
8	7	5

9	7	2

7	1	5

1	0	8

4 Dushanba kuni darsdan keyingi kun tartibingizni vaqt soatlarini yozib chiqing.

Raqamli soatdagi vaqt	Kun tartibi	Analog soatdagi vaqt
	Maktabdan uyga yetib kelaman.	
	Oila a'zolarim bilan tushlik qilaman.	
	Onamga uy ishlarida yordam beraman.	
	Dars tayyorlayman.	
	Yuz qo'lim va tishlarimni yuvib uxlashga yotaman.	

5 Mos vaqtlarni belgilang.

Ikkidan beshta o'tdi	06:30	16:55	Yigirmata kam bir
O'n minut kam ikki	06:45	12:40	Besh minut kam besh
O'n beshta kam yetti	14:05	09:35	Soat tungi o'n ikki
Olti yarim	13:50	00:00	Yigirma beshta kam o'n

31-Dars

Soat va daqiqalarni qo'shish va ayirish



1 soat – 1 h

1 daqiqa – 1 min

1 soat = 60 daqiqa



1 h = 60 min

1 min = 60 s

1

Daqiqalarda ifodalang.

1 h = min

1 h 10 min = min + min = min

1 h 22 min = min + min = min

1 h 42 min = min + min = min

2 h = min + min = min

2 h 20 min = min + min = min

2 h 53 min = min + min = min

3 h = min + min + min = min

3 h 05 min = min + min = min

6 Ifodalarni namunadagidek qo'shing.

$$1 \text{ h } 40 \text{ min} + 2 \text{ h } 40 \text{ min} = 3 \text{ h } 80 \text{ min} = 4 \text{ h } \underline{\hspace{1cm}} \text{ min}$$

$$4 \text{ h } 50 \text{ min} + 5 \text{ h } 50 \text{ min} = \underline{\hspace{1cm}} \text{ h } \underline{\hspace{1cm}} \text{ min} = \underline{\hspace{1cm}} \text{ h } \underline{\hspace{1cm}} \text{ min}$$

$$3 \text{ h } 25 \text{ min} + 3 \text{ h } 35 \text{ min} = \underline{\hspace{1cm}} \text{ h } \underline{\hspace{1cm}} \text{ min} = \underline{\hspace{1cm}} \text{ h}$$

$$12 \text{ h } 15 \text{ min} + 3 \text{ h} = \underline{\hspace{1cm}} \text{ h } \underline{\hspace{1cm}} \text{ min}$$

$$2 \text{ h } 15 \text{ min} + 2 \text{ h } 15 \text{ min} = \underline{\hspace{1cm}} \text{ h } \underline{\hspace{1cm}} \text{ min}$$

$$8 \text{ h } 45 \text{ min} + 45 \text{ min} = \underline{\hspace{1cm}} \text{ h } \underline{\hspace{1cm}} \text{ min} = \underline{\hspace{1cm}} \text{ h } \underline{\hspace{1cm}} \text{ min}$$



7 Ifodalarni namunadagidek ayiring.

$$\boxed{-1\text{h}} \boxed{+60\text{min}}$$

$$4 \text{ h } 40 \text{ min} - 50 \text{ min} = 3 \text{ h } 100 \text{ min} - 50 \text{ min} = \underline{\hspace{1cm}} \text{ h } \underline{\hspace{1cm}} \text{ min}$$

$$2 \text{ h } 32 \text{ min} - 32 \text{ min} = \underline{\hspace{1cm}} \text{ h } \underline{\hspace{1cm}} \text{ min}$$

$$8 \text{ h } 10 \text{ min} - 2 \text{ h } 20 \text{ min} = \underline{\hspace{1cm}} \text{ h } \underline{\hspace{1cm}} \text{ min} - \underline{\hspace{1cm}} \text{ h } \underline{\hspace{1cm}} \text{ min} = \underline{\hspace{1cm}} \text{ h } \underline{\hspace{1cm}} \text{ min}$$

$$10 \text{ h} - 50 \text{ min} = \underline{\hspace{1cm}} \text{ h } \underline{\hspace{1cm}} \text{ min} - \underline{\hspace{1cm}} \text{ min} = \underline{\hspace{1cm}} \text{ h } \underline{\hspace{1cm}} \text{ min}$$

8 Ustun shaklidagi vaqt ifodalarini namunadagidek hisoblang.

$$\begin{array}{|c|c|} \hline 7 \text{ h} & 52 \text{ min} \\ \hline + & 3 \text{ h} & 49 \text{ min} \\ \hline 10\text{h} & 101\text{min} \\ \hline \end{array}$$

$$\begin{array}{|c|c|} \hline 11\text{h} & 41\text{min} \\ \hline \end{array}$$

$$\begin{array}{|c|c|} \hline 4 \text{ h} & 43 \text{ min} \\ \hline + & 4 \text{ h} & 48 \text{ min} \\ \hline \end{array}$$

$$\begin{array}{|c|c|} \hline & \\ \hline \end{array}$$

$$\begin{array}{|c|c|} \hline 4 \text{ h} & 28 \text{ min} \\ \hline + & 5 \text{ h} & 32 \text{ min} \\ \hline \end{array}$$

$$\begin{array}{|c|c|} \hline & \\ \hline \end{array}$$

$$\begin{array}{|c|c|} \hline 9 \text{ h} & 30 \text{ min} \\ \hline - & 1 \text{ h} & 35 \text{ min} \\ \hline \end{array}$$

$$\begin{array}{|c|c|} \hline 8\text{h} & 90\text{min} \\ \hline - & 1\text{h} & 35\text{min} \\ \hline \end{array}$$

$$\begin{array}{|c|c|} \hline 12 \text{ h} & 18 \text{ min} \\ \hline - & 1 \text{ h} & 28 \text{ min} \\ \hline \end{array}$$

$$\begin{array}{|c|c|} \hline & \\ \hline \end{array}$$

$$\begin{array}{|c|c|} \hline 22 \text{ h} & 00 \text{ min} \\ \hline - & 21 \text{ h} & 60 \text{ min} \\ \hline \end{array}$$

$$\begin{array}{|c|c|} \hline & \\ \hline \end{array}$$

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