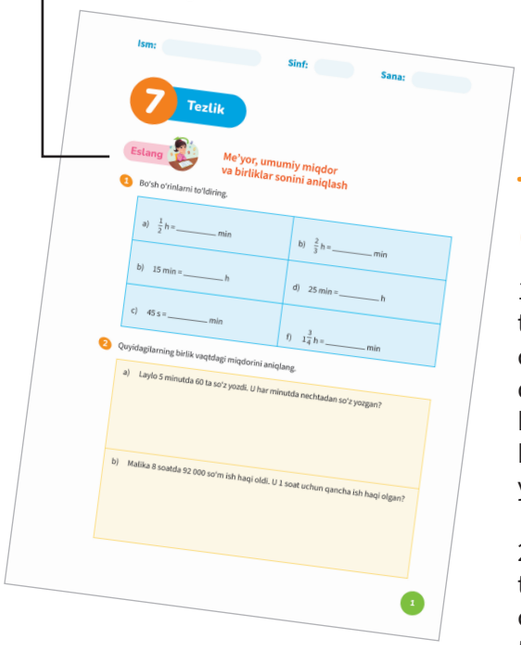
# So‘zboshi

“AHA! Matematika” mashq daftari darslikning ajralmas qismi hisoblanadi. Mashq daftari asosan uyda shug‘ullanishga mo‘ljallangan. Undagi turli xil amaliy mashq va masalalar, hayotiy topshiriqlar o‘quvchilarning mustaqil o‘rganishini qo‘llab-quvvatlashga yo‘naltirilgan. Mashq daftari yordamida o‘quvchilar yangi matematik bilimlarni o‘zlashtirish va mustahkamlash bilan birga muammoli vaziyatlarda qo‘l keladigan mantiqiy fikrlash va mulohaza yuritish kabi hayotiy ko‘nikmalarga ham ega bo‘ladi.

Matematika olamiga sayohatingiz qiziqarli va maroqli bo‘lsin!

## Eslang

rukni o‘quvchilarni avvalgi mavzularda o‘rganilgan bilimlarni eslashga yo‘naltiradi.


Ism: Sinf: Sana:

7 Tezlik

Eslang

Me'yor, umumiy miqdor va birliklar sonini aniqlash

1 Bo'sh o'rinlarni to'ldiring.

a) $\frac{1}{2}$ h = _____ min
b) $\frac{2}{3}$ h = _____ min
b) 15 min = _____ h
d) 25 min = _____ h
c) 45 s = _____ min
f) $\frac{3}{4}$ h = _____ min

2 Quyidagilarning birlik vaqtdagi miqdorini aniqlang.

a) Laylo 5 minutda 60 ta so'z yozdi. U har minutda nechtadan so'z yozgan?

b) Malika 8 soatda 92 000 so'm ish haqi oldi. U 1 soat uchun qancha ish haqi olgan?

1

## Topshiriq (D1 / D2 / D3)

1) D1 – birinchi darajali topshiriqlar o‘quvchilar mavzuga oid asosiy tushunchalarni qanday o‘zlashtirganini baholaydi va ularga tayanch ko‘nikmalarni egallashda yordam beradi.

2) D2 – ikkinchi darajali topshiriqlar o‘quvchilar mavzuga oid o‘rtacha murakkablikdagi tushunchalarni qanday o‘zlashtirganini baholaydi va ularga yuqori darajadagi fikrlash ko‘nikmalarini rivojlantirishda yordam beradi.

3) D3 – uchinchi darajali topshiriqlar o‘quvchilar mavzuga oid tushunchalarni qanchalik chuqur o‘zlashtirganini baholaydi hamda ulardagi ijodiy va tanqidiy fikrlash ko‘nikmalarini nostandart, murakkab matematik masalalarni yechish orqali rivojlantiradi.


Ism: Sinf: Sana:

Tezlik

D1 1-topshiriq

1 Quyidagilarning tezligini yozing.

| | Tezligi |
|---|---|
| a) Qo'ng'iz 1 sekundda 3 cm yuradi. | |
| b) Samolyot 1 soatda 850 km masofaga uchadi. | |
| c) Ahmad 1 sekundda 6 metrga yuguradi. | |
| d) Avtobus 1 soatda 55 km masofani bosib o'tadi. | |
| e) Barno velosipedda 1 minutda 40 metr masofani bosib o'tadi. | |

2 Har bir spidometr ko'rsatib turgan tezlikni yozing.

a) b)

Ism: Sinf: Sana:

D2 4-topshiriq

Quyidagi matnli masalalarni yeching.

1 Jasur va Murod P shahardan Q shaharga velosipedda bordi. Jasur velosipedda 36 km/h tezlik bilan harakatlanib, Q shaharga $\frac{1}{2}$ soatda yetib bordi. Murod velosipedda 40 km/h tezlik bilan harakatlandi.

a) P va Q shaharlar orasidagi masofa qancha?

b) Murod velosipedda P shahardan Q shaharga qancha vaqtda yetib borgan?

Ism: Sinf: Sana:

D3 9-topshiriq

Quyidagi matnli masalalarni yeching.

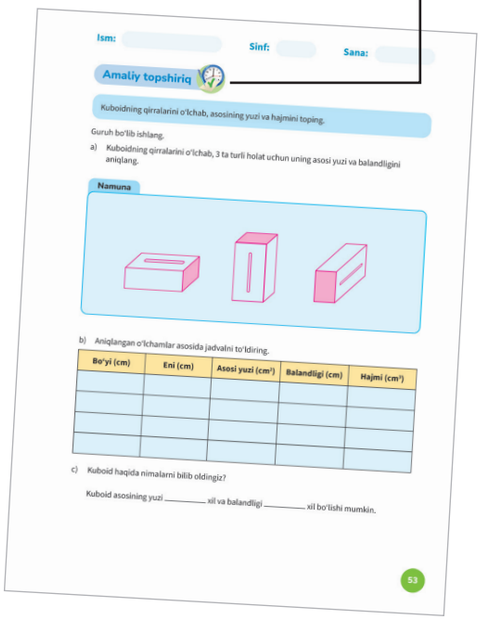
1 G'olib amaki soat 10:00 da A shahardan B shaharga avtomashinasida yo'lga chiqdi. Uning orqasidan Kozim amaki ham soat 11:00 da A shahardan B shaharga o'zgarmas 80 km/h tezlik bilan avtomashinasida yo'lga chiqdi. Kozim amaki soat 13:00 da B shaharga yetib borganida G'olib amakining B shaharga yetishiga hali 10 km bor edi. G'olib amaki avtomashinasida qanday tezlik bilan harakatlangan?

25

i

## Amaliy topshiriq

rukni o‘quvchilarga mavzu bo‘yicha egallagan bilim va ko‘nikmalarini namoyish qilish va o‘z-o‘zini baholash imkonini beradi.



Ism: Sinf: Sana:

Amaliy topshiriq

Kuboidning qirralarini o'lchab, asosining yuzi va hajmini toping.

Guruh bo'lib ishlang.

a) Kuboidning qirralarini o'lchab, 3 ta turli holat uchun uning asosi yuzi va balandligini aniqlang.

Namuna

b) Aniqlangan o'lchamlar asosida jadvalni to'ldiring.

| Bo'yi (cm) | Eni (cm) | Asosi yuzi (cm²) | Balandligi (cm) | Hajmi (cm³) |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |

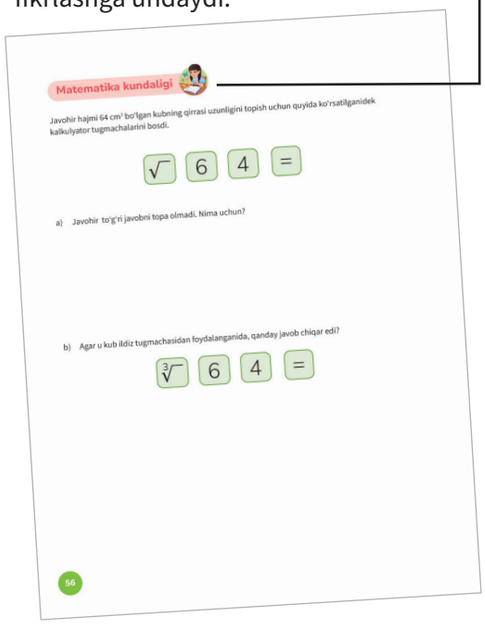
c) Kuboid haqida nimalarni bilib oldingiz?

Kuboid asosining yuzi _____ xil va balandligi _____ xil bo'lishi mumkin.

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## Matematika kundaligi

o‘quvchilarni matematikani o‘rganish jarayoni haqida fikrlashga undaydi.



Matematika kundaligi

Javohir hajmi 64 cm³ bo'lgan kubning qirrasi uzunligini topish uchun quyida ko'rsatilganidek kalkulyator tugmachalarini bosdi.

√ 6 4 =

a) Javohir to'g'ri javobni topa olmadi. Nima uchun?

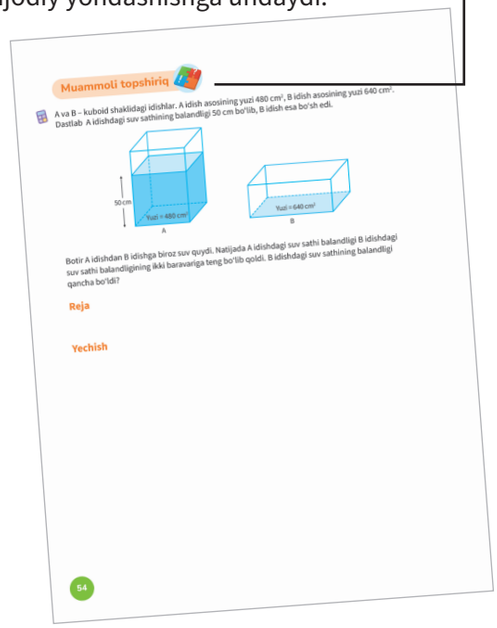
b) Agar u kub ildiz tugmachasidan foydalanganida, qanday javob chiqar edi?

∛ 6 4 =

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## Muammoli topshiriq

rukni o‘quvchilarni to‘rt bosqichli fikrlash jarayoni asosida mulohaza yuritishga va ijodiy yondashishga undaydi.



Muammoli topshiriq

A va B - kuboid shaklidagi idishlar. A idish asosining yuzi 480 cm², B idish asosining yuzi 640 cm². Dastlab A idishdagi suv sathining balandligi 50 cm bo'lib, B idish esa bo'sh edi.

50 cm

Yuzi = 480 cm²

A

Yuzi = 640 cm²

B

Botir A idishdan B idishga biroz suv quydi. Natijada A idishdagi suv sathi balandligi B idishdagi suv sathi balandligining ikki barobariga teng bo'lib qoldi. B idishdagi suv sathining balandligi qancha bo'ldi?

Reja

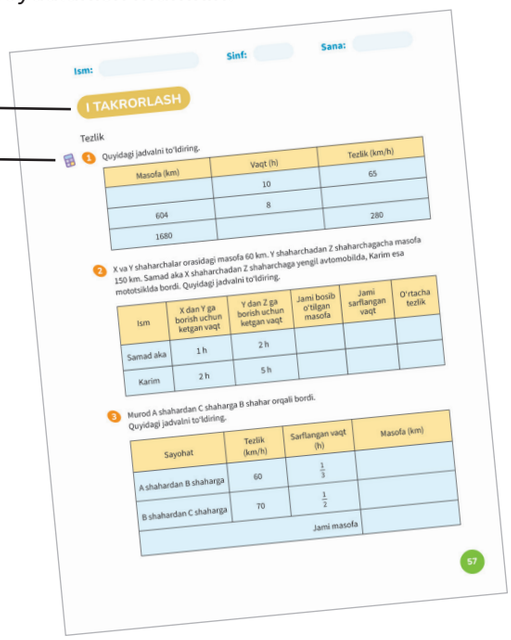
Yechish

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## Takrorlash

rukni o‘quvchilarga egallagan bilim va ko‘nikmalarni takrorlash hamda mustahkamlash imkonini beradi.

Hisoblashlarni bajarishda kalkulyatordan foydalanish mumkin.



Ism: Sinf: Sana:

I TAKRORLASH

Tezlik

1 Quyidagi jadvalni to'ldiring.

| Masofa (km) | Vaqt (h) | Tezlik (km/h) |
|---|---|---|
| | 10 | 65 |
| 604 | 8 | |
| 1680 | | 280 |

2 X va Y shaharchalar orasidagi masofa 60 km. Y shaharchadan Z shaharchagacha masofa 150 km. Samad aka X shaharchadan Z shaharchaga yengil avtomobilda, Karim esa mototsiklda bordi. Quyidagi jadvalni to'ldiring.

| Ism | X dan Y ga borish uchun ketgan vaqt | Y dan Z ga borish uchun ketgan vaqt | Jami bosib o'tilgan masofa | Jami sarflangan vaqt | O'rtacha tezlik |
|---|---|---|---|---|---|
| Samad aka | 1 h | 2 h | | | |
| Karim | 2 h | 5 h | | | |

3 Murod A shahardan C shaharga B shahar orqali bordi. Quyidagi jadvalni to'ldiring.

| Sayohat | Tezlik (km/h) | Sarflangan vaqt (h) | Masofa (km) |
|---|---|---|---|
| A shahardan B shaharga | 60 | $\frac{1}{3}$ | |
| B shahardan C shaharga | 70 | $\frac{1}{2}$ | |
| | | Jami masofa | |

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**Ism:** _____ **Sinf:** _____ **Sana:** _____

# 7 Tezlik

Eslang 

## Me’yor, umumiy miqdor va birliklar sonini aniqlash

**1** Bo‘sh o‘rinlarni to‘ldiring.

| | |
|---|---|
| a) $\frac{1}{2}$ h = _____ min | b) $\frac{2}{3}$ h = _____ min |
| c) 15 min = _____ h | d) 25 min = _____ h |
| e) 45 s = _____ min | f) $1\frac{3}{4}$ h = _____ min |

**2** Quyidagilarning birlik vaqtdagi miqdorini aniqlang.

a) Laylo 5 minutda 60 ta so‘z yozdi. U har minutda nechtadan so‘z yozgan?

b) Malika 8 soatda 92 000 so‘m ish haqi oldi. U 1 soat uchun qancha ish haqi olgan?



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**3** Jo‘mrakdan 30 minutda 750 $\ell$ suv oqadi.

a) Jo‘mrakdan 1 minutda qancha suv oqadi?

b) 12 minutda-chi?

**4** Printer 1 minutda 75 sahifa chop etsa, 15 minutda necha sahifa chop etishi mumkin?



**5** Dastgoh 20 minutda 560 ta detalga ishlov bersa, 840 ta detalga qancha vaqtda ishlov beradi?



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**Ism:** **Sinf:** **Sana:**

# Tezlik

## D1 1-topshiriq

**1** Quyidagilarning tezligini yozing.

| | Tezligi |
|---|---|
| a) Qo‘ng‘iz 1 sekundda 3 cm yuradi. | |
| b) Samolyot 1 soatda 850 km masofaga uchadi. | |
| c) Ahmad 1 sekundda 6 metrga yuguradi. | |
| d) Avtobus 1 soatda 55 km masofani bosib o‘tadi. | |
| e) Barno velosipedda 1 minutda 40 metr masofani bosib o‘tadi. | |

**2** Har bir spidometr ko‘rsatib turgan tezlikni yozing.

a)




b)






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**3** Jadvalda ba’zi hayvonlarning eng katta yugurish tezligi berilgan. Ushbu ma’lumotlardan foydalanib quyidagilarga javob bering.

a) Yugurish tezligi bo‘yicha hayvonlarning o‘rnini belgilang.

| Hayvon | Tezligi (km/h) | O‘rni |
|---|---|---|
| Tuyaqush | 96 | |
| Gepard | 120 | |
| Sher | 80 | |
| Fil | 40 | |
| Zebra | 64 | |

b) Qaysi hayvon eng tez yuguradi? Uning tezligi qanday?

c) Qaysi hayvonning tezligi filning tezligidan ikki marta katta?

d) Tuyaqushning tezligi zebraning teziligidan qanchaga ko‘p?

**4** To‘g‘ri tasdiqlarni (✓ bilan) belgilang.

a) Muayyan masofani A mashina B mashinaga qaraganda kamroq vaqtda bosib o‘tdi. Demak, ...

| | |
|---|---|
| A mashina B mashinaga qaraganda sekinroq yurdi. | |
| A mashina B mashinaga qaraganda tezroq yurdi. | |
| B mashina A mashinaga qaraganda sekinroq yurdi. | |
| A va B mashinalarning tezligi bir xil. | |

b) $\frac{1}{2}$ soat ichida A mashina B mashinaga qaraganda kamroq masofani bosib o‘tdi. Demak, ...

| | |
|---|---|
| A mashina B mashinaga qaraganda sekinroq yurdi. | |
| A mashina B mashinaga qaraganda tezroq yurdi. | |
| B mashina A mashinaga qaraganda tezroq yurdi. | |
| A va B mashinalarning tezligi bir xil. | |



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Ism: Sinf: Sana:

# Tezlik, bosib o‘tilgan masofa va vaqtni topish

## D1 2-topshiriq

**1** Quyidagilarning tezligini yozing.

| | Tezligi |
|---|---|
| a) Sevara 25 sekundda 100 metr masofaga yugurdi. | _____ m/s |
| b) Laziz amaki 2 soatda 10 km masofaga yugurdi. | _____ km/h |
| c) Javlon 20 minutda 800 metr masofaga suzdi. | _____ m/min |

**2** Quyidagilar uchun bosib o‘tilgan masofani yozing.

| | Masofa |
|---|---|
| a) Mushuk 5 cm/s tezlik bilan 10 sekund yurgan. | _____ cm |
| b) Poyezd 90 km/h tezlik bilan 5 soat yurgan. | _____ km |



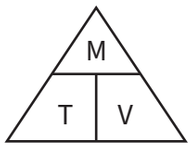
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**3** Quyidagilar uchun sarflangan vaqtni yozing.

| | Vaqt |
|---|---|
| a) Nortoy 1500 metr masofaga 300 m/min tezlik bilan yugurdi. | _____ min |
| b) Husan amaki mashinada 60 km/h tezlik bilan 120 km masofani bosib o‘tdi. | _____ h |

**4** Quyidagi jadvalni to‘ldiring.

| | Masofa (km) | Vaqt (h) | Tezlik (km/h) |
|---|---|---|---|
| a) | | $6\frac{1}{6}$ | 72 |
| b) | 1050 | 12 | |
| c) | 2790 | | 180 |






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**Ism:** **Sinf:** **Sana:**

## D1 3-topshiriq

Quyidagi matnli masalalarni yeching.

1. Fil 330 m/min tezlik bilan 10 minut yugursa, necha metr masofani bosib o‘tadi?

2. Samolyot 850 km/h tezlik bilan 9350 km masofaga uchib bordi. Uning uchish vaqti qancha?

3. Avtomobil 58 km/h tezlik bilan harakatlansa, $4\frac{1}{2}$ soatda qancha masofani bosib o‘tadi?



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4 Jasur aka X va Y shaharlar orasidagi 256 km masofani avtomashinada bosib o‘tdi. U soat 12:00 da X shahardan chiqib, soat 16:00 da Y shaharga yetib keldi. Jasur aka avtomashinada qanday tezlikda harakatlangan?

5 Barno velosipedda ertalab soat 9:45 da uyidan chiqib, soat 10:30 da kutubxonaga yetib keldi. U velosipedda 16 km/h tezlik bilan harakatlangan bo‘lsa, qancha masofani bosib o‘tgan?



6 A va B shaharlar bir-biridan 420 km uzoqlikda joylashgan. A shahardan B shaharga 84 km/h tezlik bilan avtobusda borish uchun qancha vaqt ketadi?



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**Ism:** **Sinf:** **Sana:**

## D2 4-topshiriq

Quyidagi matnli masalalarni yeching.

**1** Jasur va Murod P shahardan Q shaharga velosipedda bordi. Jasur velosipedda 36 km/h tezlik bilan harakatlanib, Q shaharga $\frac{1}{2}$ soatda yetib bordi. Murod velosipedda 40 km/h tezlik bilan harakatlandi.

a) P va Q shaharlar orasidagi masofa qancha?
b) Murod velosipedda P shahardan Q shaharga qancha vaqtda yetib borgan?



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**2** P va Q nuqtalar orasidagi masofa 3600 metrni tashkil etadi. Botir ertalab 8:35 da P nuqtadan yugurishni boshlab, Q nuqtaga 8:50 da yetib kelgan. Sobir ham u bilan birga P nuqtadan 200 m/min tezlik bilan yugurishni boshlagan. Kimning yugurish tezligi kattaroq va qanchaga katta?



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Ism: Sinf: Sana:

# Ikki xil tezlikdagi harakatga doir matnli masalalar

## D2 5-topshiriq

Quyidagi matnli masalalarni yeching.

1. Yusuf tog‘a 15 km/h o‘zgarmas tezlik bilan 30 minut yugurib, X nuqtadan Y nuqtaga bordi. U yo‘lini davom ettirdi va 12 km/h o‘zgarmas tezlik bilan 25 minut yugurib, Y nuqtadan Z nuqtaga bordi. X va Z nuqtalar orasidagi masofa qancha?



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**2** A va B shaharlar orasidagi masofa 48 km. Nasiba velosipedda 36 km/h o‘zgarmas tezlik bilan harakatlanib, A shahardan B shaharga bordi. U kelgan yo‘lidan orqaga qaytdi va velosipedda 40 km/h o‘zgarmas tezlik bilan harakatlanib, B shahardan A shaharga yetib keldi. Nasiba velosipedda A shahardan B shaharga borish va qaytib kelish uchun jami qancha vaqt sarflagan?



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**3** Ravshan aka avtomashinasida uyidan qishloqqa olib boruvchi yo‘lning $\frac{4}{9}$ qismida 80 km/h tezlik bilan yurdi. Qolgan 30 km yo‘lni esa 30 minutda bosib o‘tdi. Ravshan aka butun yo‘lni qancha vaqtda bosib o‘tgan?



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**4** Laziz amaki avtomashinada 80 km/h o‘zgarmas tezlik bilan harakatlanib, X shahardan Y shaharga $3\frac{1}{2}$ soatda yetib keldi. Avtomashinada Y shahardan X shaharga qaytib borish uchun esa 70 km/h tezlik bilan harakatlandi.

a) X va Y shaharlar orasidagi masofa qancha?

b) Y shahardan X shaharga qaytib borish uchun qancha vaqt ketgan?



87 MATEMATICS WORKBOOK G6 P2 UZB 220x290 136PG (1) (1).indd 14 26/11/24 10:49

**Ism:** **Sinf:** **Sana:**

# O‘rtacha tezlik

## D1 6-topshiriq

1 Quyida berilgan ma’lumotlardan foydalanib A shahardan C shaharga B shahar orqali borgan transport vositalarining o‘rtacha tezligini toping.

A va B shaharlar orasidagi masofa 50 km.
B va C shaharlar orasidagi masofa 100 km.

| Transport vositasi | A dan B gacha ketgan vaqt | B dan C gacha ketgan vaqt | Jami masofa | Jami vaqt | O‘rtacha tezlik |
|---|---|---|---|---|---|
|  mototsikl | 1 h | 2 h | | | |
|  avtomobil | $\frac{3}{4}$ h | $1\frac{1}{4}$ h | | | |
|  yuk mashinasi | 1 h | $1\frac{1}{2}$ h | | | |



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**2** Husan A nuqtadan B nuqtaga borish uchun 6 km masofaga $\frac{2}{3}$ soat yugurdi. Keyin $1\frac{1}{3}$ soat yugurib A ga qaytib keldi. Husan qanday o‘rtacha tezlik bilan yugurgan?

**3** Adiba soat 8:30 da velosipedda X xiyobondan yo‘lga chiqib, Y xiyobonga soat 10:30 da yetib bordi va to‘xtamasdan Z xiyobonga jo‘nab, soat 11:30 da yetib bordi. Velosipedda X xiyobondan Z xiyobonga borishdagi o‘rtacha tezligi 10 km/h bo‘lsa, Adiba jami qancha masofani bosib o‘tgan?



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## D2 7-topshiriq

Quyidagi matnli masalalarni yeching.

**1** Kozim amaki G va H shaharlar orasidagi 240 km masofani avtomashinada bosib o‘tdi. U yo‘lning yarmini $1\frac{1}{5}$ soatda, qolgan 120 km masofani esa 60 km/h tezlik bilan bosib o‘tdi.

a) Kozim amakiga butun yo‘lni bosib o‘tishi uchun qancha vaqt kerak bo‘lgan?

b) Uning butun yo‘ldagi o‘rtacha tezligi qanday?



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**2** X va Y stansiyalar bir-biridan 150 km masofada joylashgan. Poyezd X stansiyadan chiqib, Y stansiyagacha yo‘lning dastlabki 126 kilometrini 72 km/h tezlik bilan bosib o‘tdi. Qolgan yo‘lni bosib o‘tishi uchun esa $1\frac{1}{4}$ soat kerak bo‘ldi. Poyezdning butun yo‘ldagi o‘rtacha tezligini toping.



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Ism: Sinf: Sana:

# Ikki jism harakatiga doir matnli masalalar

## D2 8-topshiriq

Quyidagi matnli masalalarni yeching.

1. Rustam va Tolib X nuqtadan bir vaqtda qarama-qarshi yo‘nalishda velosipedda yo‘lga chiqdi. Oradan $\frac{2}{3}$ soat o‘tib, ular orasidagi masofa 21 km bo‘ldi. Rustam velosipedda 12 km/h o‘zgarmas tezlik bilan harakatlangani ma’lum. Tolibning velosipeddagi tezligini toping.



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**2** Tohir va Sodiq amaki bir nuqtadan bir vaqtda qarama-qarshi yo‘nalishda avtomashinada yo‘lga chiqdi. Tohir amaki avtomashinada 55 km/h, Sodiq amaki esa 68 km/h o‘zgarmas tezlik bilan harakatlandi. $\frac{3}{5}$ soatdan so‘ng ular orasidagi masofa qancha bo‘ladi?



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**3** Laziz amaki yuk mashinasida 45 km/h o‘zgarmas tezlik bilan A nuqtadan B nuqtaga 4 soatda yetib bordi. U borgan yo‘l bilan soat 11:00 da Tohir amaki ham yengil mashinada 80 km/h o‘zgarmas tezlik bilan A nuqtadan yo‘lga chiqsa, qachon B nuqtaga yetib boradi?



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**4** Y va Z shaharlar orasidagi masofa 390 km. Ahmad aka avtomashinada soat 8:30 da Y shahardan Z shaharga 75 km/h o‘zgarmas tezlik bilan yo‘lga chiqdi. Xuddi shu payt Botir aka ham avtomashinada Z shahardan Y shaharga 55 km/h o‘zgarmas tezlik bilan yo‘lga chiqdi.

a) Ahmad aka va Botir aka qachon uchrashadi?

b) Ahmad aka bilan Botir aka Y shahardan necha km uzoqlikda uchrashadi?



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**5** Soat 9:15 da Rasul R xiyobondan S xiyobonga yugurishni boshladi. U 100 m/min o‘zgarmas tezlik bilan yugurib, 40 minutda S xiyobonga yetib keldi. Soat 10:15 da Botir ham Rasul kelgan yo‘l bo‘ylab S xiyobondan R xiyobonga 80 m/min o‘zgarmas tezlik bilan yugurishni boshladi.

a) R va S xiyobonlar orasidagi masofa qancha? Javobni metrlarda ifodalang.

b) Botir R xiyobonga soat nechada yetib keladi?



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**6** P va Q shaharlar orasidagi masofa 300 km. Avtomobil P shahardan tezligi 60 km/h bo‘lgan avtobusga qaraganda yarim soat kech chiqqan bo‘lsa-da, Q shaharga avtobusdan 1,5 soat oldinroq yetib keldi.

a) Avtomobilning tezligi qanday?

b) Agar avtomobil Q shaharga soat 18:00 da yetib kelgan bo‘lsa, soat nechada P shahardan chiqqan?



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**Ism:** **Sinf:** **Sana:**

## D3 9-topshiriq

Quyidagi matnli masalalarni yeching.

1. G‘olib amaki soat 10:00 da A shahardan B shaharga avtomashinasida yo‘lga chiqdi. Uning orqasidan Kozim amaki ham soat 11:00 da A shahardan B shaharga o‘zgarmas 80 km/h tezlik bilan avtomashinasida yo‘lga chiqdi. Kozim amaki soat 13:00 da B shaharga yetib borganida G‘olib amakining B shaharga yetishiga hali 10 km bor edi. G‘olib amaki avtomashinasida qanday tezlik bilan harakatlangan?



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**2** Avtomobil X shahardan Y shaharga 4 soatda yetib boradi. Avtobus esa Y shahardan X shaharga 6 soatda yetib boradi. Agar ular soat 11:30 da yo‘lga chiqqani ma’lum bo‘lsa, soat nechada bir-biri bilan uchrashadi?



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**Ism:** **Sinf:** **Sana:**

## Muammoli topshiriq

Yuk mashinasi 60 km/h o‘zgarmas tezlik bilan P shahardan Q shaharga yo‘lga chiqdi. Ikki soat o‘tib, 75 km/h o‘zgarmas tezlik bilan uning orqasidan yengil mashina ham yo‘lga chiqdi. Yengil mashina yuk mashinasiga qancha vaqtda yetib oladi?

### Reja

### Yechish

### Tekshirish



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## Matematika kundaligi



Aziza quyidagi masalani yechishi kerak.

Avtomobil A shahardan C shaharga B shahar orqali bordi. Jadvalda A shahardan B shahargacha, B shahardan C shahargacha masofalar, yo‘lning har bir qismidagi avtomobilning tezligi va bosib o‘tish uchun ketgan vaqti ko‘rsatilgan. Avtomobilning o‘rtacha tezligini toping.

| | **A dan B gacha** | **B dan C gacha** |
|---|---|---|
| **Masofa** | 100 km | 120 km |
| **Vaqt** | 2 h | 3 h |
| **Tezlik** | 50 km/h | 40 km/h |

Azizaning yechimi

O‘rtacha tezlik = (50 + 40) ÷ 2
= 90 ÷ 2
= 45 km/h

a) Azizaning xatosi nimada?

b) To‘g‘ri yechimni ko‘rsating.



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# 8 Hajm

Eslang



## Kub va kuboidning hajmi

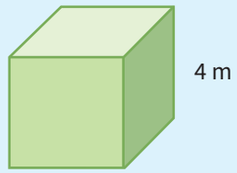
**1** Kublarning hajmini toping.

a)




Kubning hajmi =

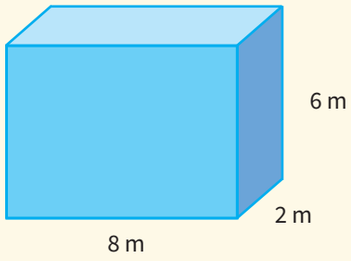
b)




Kubning hajmi =

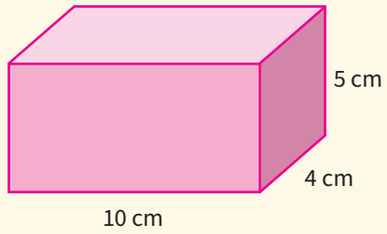
**2** Kuboidlarning hajmini toping.

a)




Kuboidning hajmi =

b)




Kuboidning hajmi =



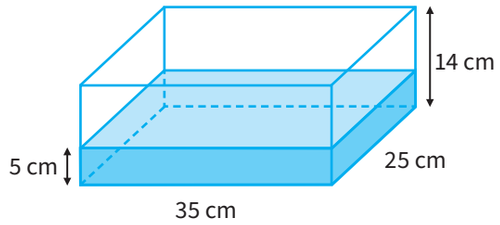
87 MATEMATICS WORKBOOK G6 P2 UZB 220x290 136PG (1) (1).indd 29 26/11/24 10:49

Quyidagi matnli masalalarni yeching.

**3** Kuboid shaklidagi idishning bo‘yi 35 cm, eni 25 cm, balandligi 14 cm.

a) Idishdagi suv hajmini toping.

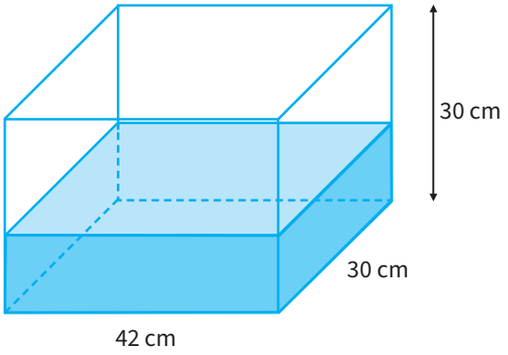
b) Idishni to‘ldirish uchun yana qancha suv kerak?




**4** Bo‘yi 42 cm, eni 30 cm va balandligi 30 cm bo‘lgan kuboid shaklidagi idishning $\frac{2}{5}$ qismi suv bilan to‘ldirilgan.

a) Idishda necha litr suv bor?

b) Idishni to‘ldirish uchun yana qancha suv kerak?
Javobni litrlarda ifodalang.






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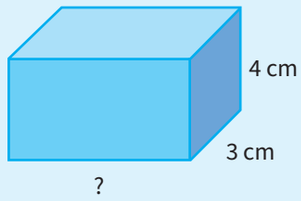
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# Kuboidning qirralarini topish

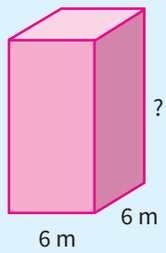
## D1 1-topshiriq

1 Kuboidlarning noma’lum qirrasi uzunligini toping.

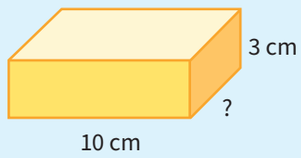
a) Kuboidning hajmi 84 $cm^3$.




b) Kuboidning hajmi 432 $m^3$.




c) Kuboidning hajmi 180 $cm^3$.



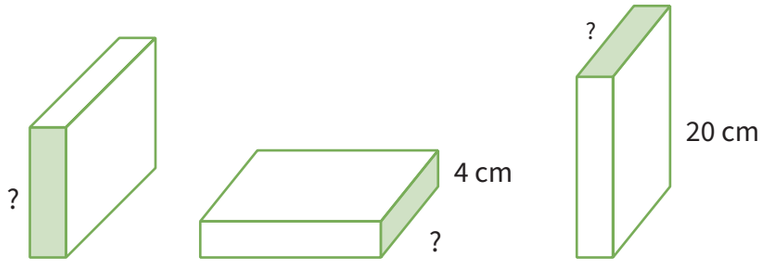



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**2** Quyidagi jadvalni to‘ldiring.

| Kuboid | Bo‘yi (cm) | Eni (cm) | Balandligi (cm) | Hajmi ($cm^3$) |
|---|---|---|---|---|
| A | 6 | 3 | 5 | |
| B | 9 | 4 | | 468 |
| C | 18 | | 14 | 3024 |
| D | | 10 | 10 | 1100 |
| E | 14 | | 8 | 1568 |

**3** Hajmi 1200 $cm^3$ bo‘lgan kuboid 3 xil holatda tasvirlangan. Uning noma’lum qirrasi uzunligini toping.





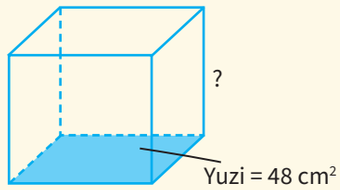

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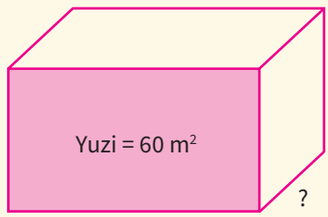
# D1 2-topshiriq

**1** Kuboidlarning noma'lum qirrasi uzunligini toping.

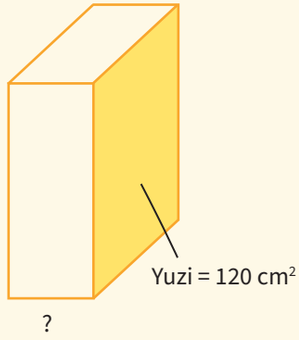
a) Kuboidning hajmi 336 $cm^3$. Asosining yuzi 48 $cm^2$.




b) Kuboidning hajmi 240 $m^3$. Bo'yalgan yog'ining yuzi 60 $m^2$.



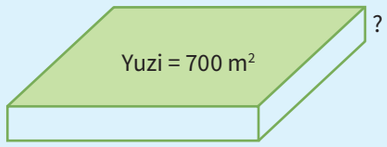

c) Kuboidning hajmi 720 $cm^3$. Bo'yalgan yog'ining yuzi 120 $cm^2$.



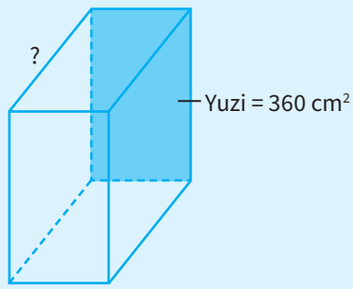



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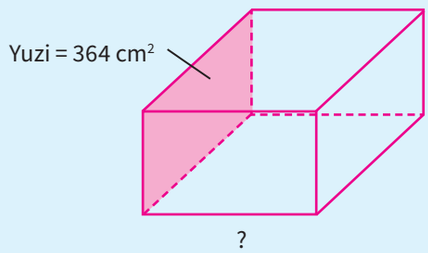
d) Kuboidning hajmi 2100 $m^3$. Bo‘yalgan yog‘ining yuzi 700 $m^2$.




e) Kuboidning hajmi 6480 $cm^3$. Bo‘yalgan yog‘ining yuzi 360 $cm^2$.




f) Kuboidning hajmi 7644 $cm^3$. Bo‘yalgan yog‘ining yuzi 364 $cm^2$.






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Ism: Sinf: Sana:

# Kubning qirrasini topish

## D1 3-topshiriq

**1** Sonlarning kvadrat ildizini yoki kub ildizini toping.

| | |
|---|---|
| a) $2 \times 2 = 4$<br>$\sqrt{4} =$ | b) $6 \times 6 = 36$<br>$\sqrt{36} =$ |
| c) $3 \times 3 \times 3 = 27$<br>$\sqrt[3]{27} =$ | d) $9 \times 9 \times 9 = 729$<br>$\sqrt[3]{729} =$ |

**2** Sonlarning kvadrat ildizini toping.

| | |
|---|---|
| a) $\sqrt{225}$ | b) $\sqrt{400}$ |
| c) $\sqrt{625}$ | d) $\sqrt{961}$ |

**3** Sonlarning kub ildizini toping.

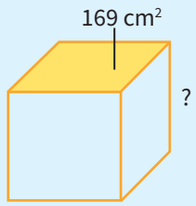
| | |
|---|---|
| a) $\sqrt[3]{1728}$ | b) $\sqrt[3]{3375}$ |
| c) $\sqrt[3]{8000}$ | d) $\sqrt[3]{15\,625}$ |



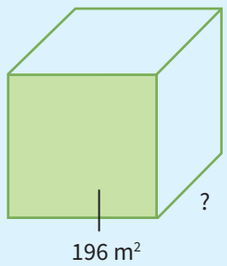
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**4** Kublarning qirrasi uzunligini toping.

a) Kubning bo‘yalgan yog‘i yuzi 169 $cm^2$.

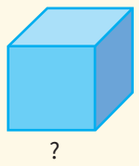



b) Kubning bo‘yalgan yog‘i yuzi 196 $m^2$.

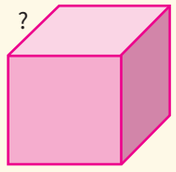



**5** Kublarning qirrasi uzunligini toping.

a) Kubning hajmi 216 $cm^3$.




b) Kubning hajmi 64 $m^3$.






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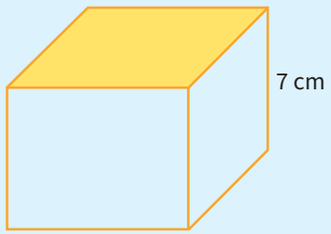
**Ism:** **Sinf:** **Sana:**

# Kuboid va kubning bitta yog‘i yuzini topish

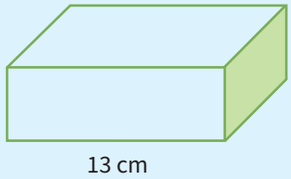
## D1 4-topshiriq

**1** Kuboidlarning bo‘yalgan yog‘i yuzini toping.

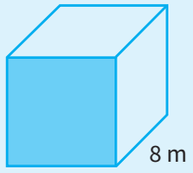
a) Kuboidning hajmi 392 $cm^3$.




b) Kuboidning hajmi 455 $cm^3$.



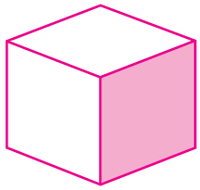

c) Kuboidning hajmi 648 $m^3$.



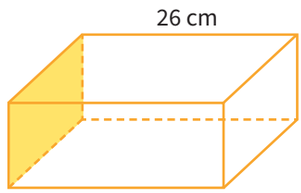



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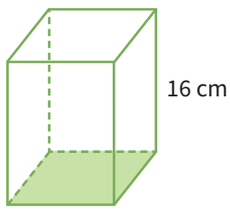
**2** Kub hajmi 4913 $cm^3$. Kubning bo‘yalgan yog‘i yuzini toping.



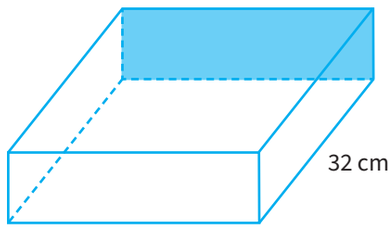
**3** Bitta qirrasi uzunligi 26 cm bo‘lgan kuboidning hajmi 4056 $cm^3$. Uning bo‘yalgan yog‘i yuzini toping.




**4** Kuboid shaklidagi idishning asosi kvadratdan iborat. Uning hajmi 2304 $cm^3$, balandligi esa 16 cm. Asosidagi kvadratning yuzini toping.




**5** Kuboid shaklidagi idishning bo‘yi 32 cm, hajmi esa 14 400 $cm^3$. Idishning bo‘yalgan yog‘i yuzini toping.






87 MATEMATICS WORKBOOK G6 P2 UZB 220x290 136PG (1) (1).indd 38 26/11/24 10:49

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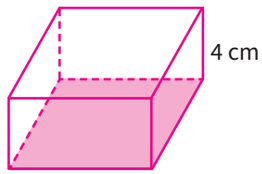
# Matnli masalalar

## D2 5-topshiriq

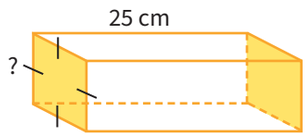
Quyidagi matnli masalalarni yeching.

**1** Asosi kvadratdan iborat bo‘lgan kuboidning balandligi 4 cm ga, hajmi esa 256 $cm^3$ ga teng.

a) Kuboid asosidagi kvadratning yuzini toping.
b) Kuboid asosidagi kvadratning tomoni uzunligini toping.




**2** Ikkita qarama-qarshi yon yoqlari kvadratlardan iborat bo‘lgan kuboidning hajmi 3025 $cm^3$. Bo‘yi 25 cm. Kuboid yon yog‘idagi kvadratlarning tomonini toping.

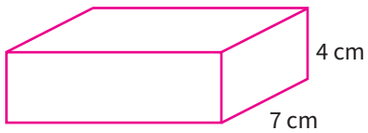




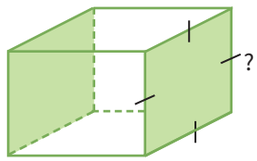

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**3** A va B kuboidlarning hajmi teng. B kuboidning bo‘yi 12 cm bo‘lib, ikkita qarama-qarshi yon yoqlari kvadratlardan iborat.

a) B kuboid yon yog‘idagi kvadratning yuzini toping.
b) B kuboid yon yog‘idagi kvadratning tomonini toping.



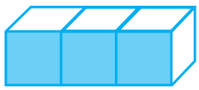
A kuboid



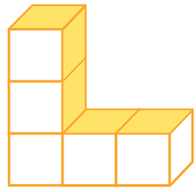
B kuboid

**4** Rasmda har birining hajmi 512 $cm^3$ bo‘lgan kublardan hosil qilingan A va B jismlar tasvirlangan. Har bir jism sirtining bo‘yalgan qismi yuzini toping.

a)


A jism

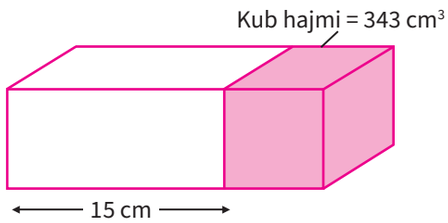
b)


B jism



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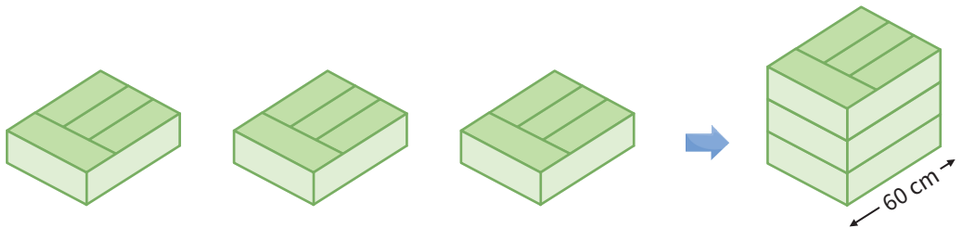
**5** Hajmi 343 $cm^3$ bo‘lgan kub va bo‘yi 15 cm bo‘lgan kuboid yoqlari yelimlandi. Natijada quyidagidek yangi kuboid hosil bo‘ldi. Hosil bo‘lgan yangi kuboidning hajmini toping.






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**6** 1-rasmdagi har bir kuboid 4 ta bir xil yog‘och bo‘lagidan iborat. Har bir yog‘och bo‘lagini arralab, 3 ta kubga ajratish mumkin. 1-rasmdagi kuboidlar birlashtirilib, 2-rasmdagi bo‘yi 60 cm bo‘lgan kuboid hosil qilindi. 2-rasmdagi kuboid hajmini toping.




1-rasm

2-rasm



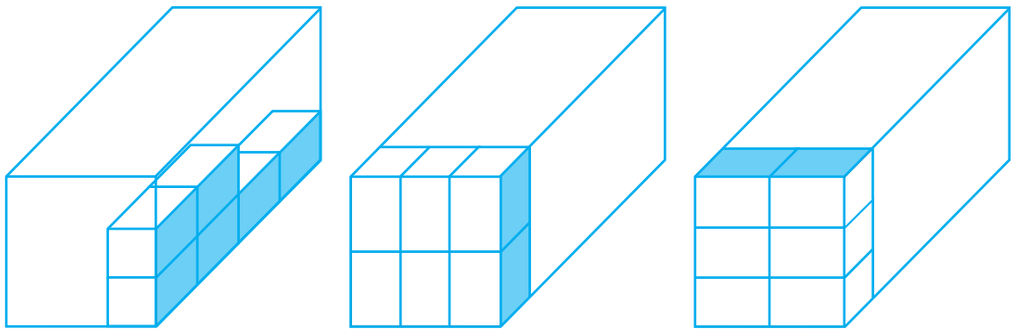
87 MATEMATICS WORKBOOK G6 P2 UZB 220x290 136PG (1) (1).indd 42 26/11/24 10:49

**Ism:** **Sinf:** **Sana:**

# D3 6-topshiriq

Quyidagi matnli masalalarni yeching.

**1** Alining kuboid shaklidagi idishi va 6 ta bir xil kichikroq qutisi bor. Har bir quti ikkita qarama-qarshi yog‘i yuzi 64 $cm^2$ bo‘lgan kvadratlardan iborat. U idishga 6 ta qutini quyida ko‘rsatilganidek 3 xil usulda joylashtirib ko‘rdi.



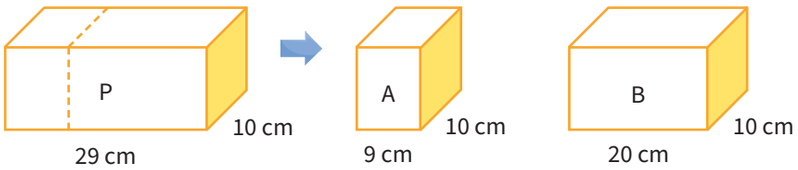
a) Idishga ko‘pi bilan nechta quti joylashtirish mumkin?

b) Idishning hajmini toping.



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**2** Kuboid shaklidagi P yog‘och bo‘lagidan quyida ko‘rsatilganidek ikkita kichikroq A va B yog‘och bo‘lagi kesib olindi. A va B yog‘och bo‘lakchalari hajmlarining farqi 1320 $cm^3$.




a) P yog‘och bo‘lagining balandligini toping.

b) O‘lchamlari 27 cm, 30 cm, 50 cm bo‘lgan kuboid shaklidagi qutiga A yog‘och bo‘lagidan ko‘pi bilan  nechta joylashtirish mumkin?



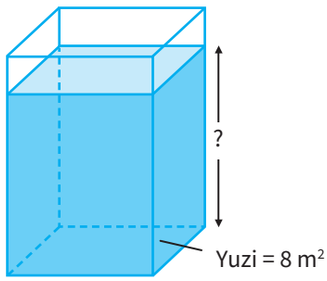
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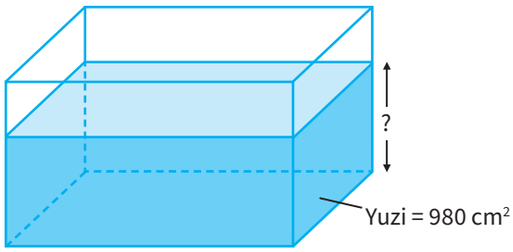
# D1 7-topshiriq

Quyidagi matnli masalalarni yeching.

**1** Akvarium kuboid shaklida bo‘lib, asosining yuzi 8 $m^2$ ga teng. Akvariumda 56 $m^3$ suv bor. Akvariumdagi suv sathining balandligini toping.



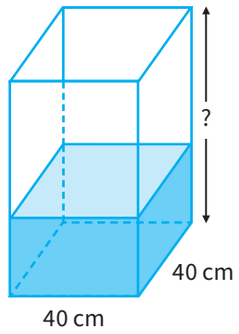

**2** Sig‘imi 17,64 $\ell$ bo‘lgan akvarium kuboid shaklida bo‘lib, asosining yuzi 980 $cm^2$ ga teng. Akvariumning $\frac{2}{3}$ qismi suv bilan to‘ldirilgan. Akvariumdagi suv sathining balandligini toping.



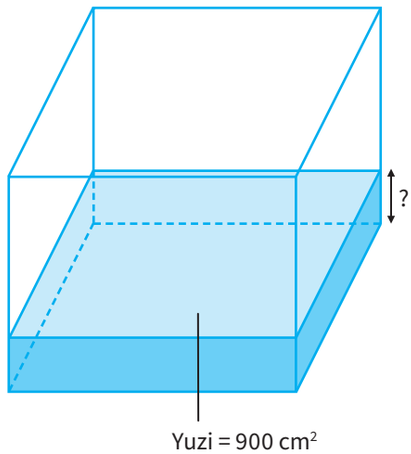



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**3** Akvarium kuboid shaklida. Uning asosi tomoni 40 cm bo‘lgan kvadratdan iborat. Akvariumning $\frac{1}{3}$ qismi suv bilan to‘ldirilgan bo‘lib, undagi suvning hajmi 36 $\ell$. Akvariumning balandligini toping.




**4** Akvarium kuboid shaklida. Asosining yuzi 900 $cm^2$ bo‘lgan kvadratdan iborat. Akvariumga har birida 1,5 $\ell$ dan suv bo‘lgan 3 ta idishdagi suv quyildi. Akvariumdagi suv sathining balandligini toping.






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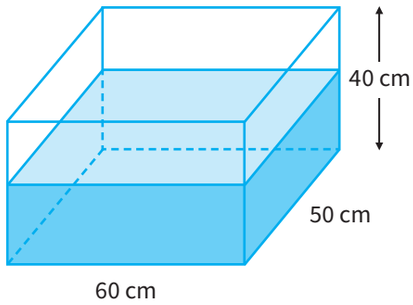
**Ism:** **Sinf:** **Sana:**

# Y2 8-topshiriq

Quyidagi matnli masalalarni yeching.

**1** Idish kuboid shaklida bo‘lib, o‘lchamlari 60 cm, 50 cm va 40 cm. Idishga 72 $\ell$ suv quyilgan.

a) Idishdagi suv sathining balandligini toping.
b) Idishni to‘ldirish uchun yana qancha suv kerak?



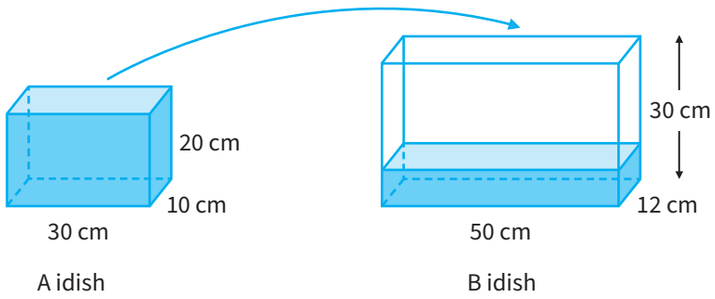



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**2** Kuboid shaklidagi A idish suvga to‘la, B idishning esa $\frac{1}{4}$ qismi to‘ldirilgan. A idishdagi suvning hammasi B idishga quyildi.

a) B idishga suv quyilgandan keyin undagi suv hajmi qancha bo‘ldi?

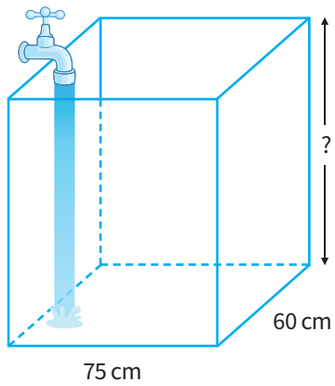
b) B idishga suv quyilgandan keyin undagi suv sathining balandligi qancha bo‘ldi?






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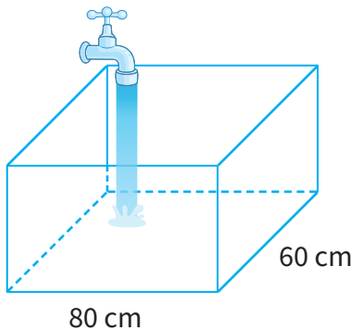
**3** Asosi to‘g‘ri to‘rtburchak shaklidagi bo‘sh idishga minutiga 12 $\ell$ suv quyilib, yarim soatda to‘ldirildi. Idishning balandligini toping.






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4 Bo‘sh idishning asosi to‘g‘ri to‘rtburchakdan iborat bo‘lib, uning bo‘yi 80 cm va eni 60 cm. Bo‘sh idish har minutda 24 $\ell$ suv quyib to‘ldirilmoqda. Idishdagi suv sathining balandligi 50 cm bo‘lishi uchun qancha vaqt ketadi?





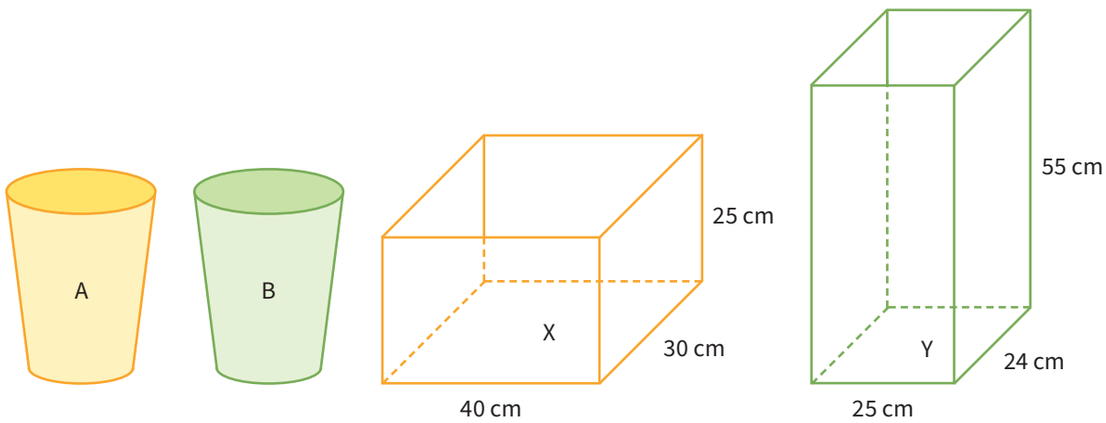

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**Ism:** **Sinf:** **Sana:**

## D3 9-topshiriq

Quyidagi matnli masalalarni yeching.

**1** Bir xil hajmdagi A va B idishlarga suv to‘ldirilgan. A idishdagi suv bo‘sh X idishga quyilib, uning $\frac{4}{5}$ qismi to‘ldirildi. B idishdagi suv esa bo‘sh Y idishga quyildi. Y idishdagi suv sathining balandligini toping.





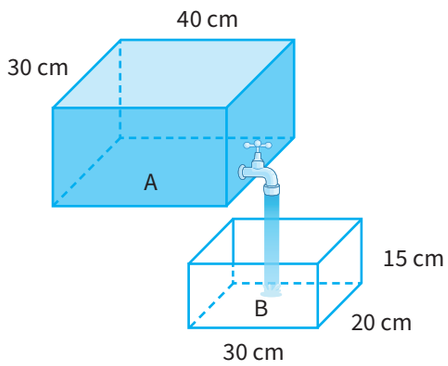

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**2** Quyida asosi to‘g‘ri to‘rtburchakdan iborat bo‘lgan A va B idishlar ko‘rsatilgan. A idish suvga to‘la, B idish esa bo‘sh. Jo‘mrak ochilgach, A idishdan B idishga minutiga 10 $\ell$ suv tusha boshladi. B idish suvga to‘ldirilganda A idishdagi suv sathining balandligi dastlabki balandligining $\frac{2}{3}$ qismiga teng bo‘ldi.

a) B idishni to‘ldirish uchun jo‘mrak qancha vaqt ochilgan?

b) A idishning balandligi qancha?

c) A idishni to‘liq bo‘shatish uchun necha minut kerak bo‘ladi?






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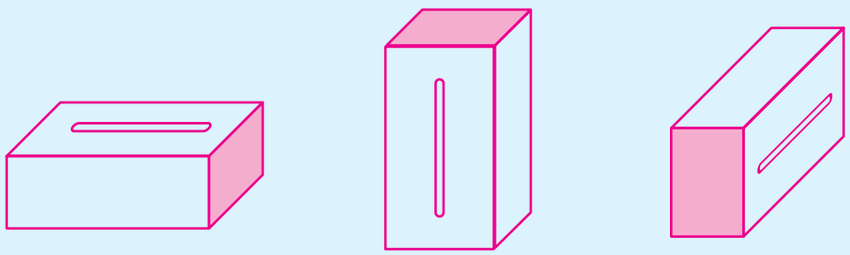
## Amaliy topshiriq

Kuboidning qirralarini o‘lchab, asosining yuzi va hajmini toping.

Guruh bo‘lib ishlang.

a) Kuboidning qirralarini o‘lchab, 3 ta turli holat uchun uning asosi yuzi va balandligini aniqlang.

**Namuna**



b) Aniqlangan o‘lchamlar asosida jadvalni to‘ldiring.

| Bo‘yi (cm) | Eni (cm) | Asosi yuzi ($cm^2$) | Balandligi (cm) | Hajmi ($cm^3$) |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |

c) Kuboid haqida nimalarni bilib oldingiz?

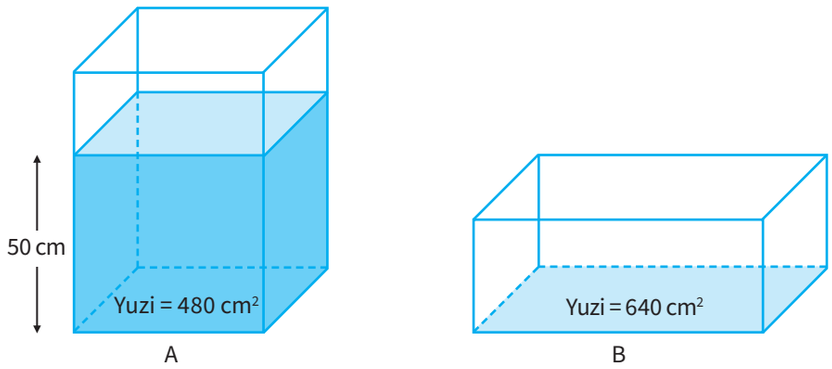
Kuboid asosining yuzi _____ xil va balandligi _____ xil bo‘lishi mumkin.



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## Muammoli topshiriq

A va B – kuboid shaklidagi idishlar. A idish asosining yuzi 480 $cm^2$, B idish asosining yuzi 640 $cm^2$. Dastlab A idishdagi suv sathining balandligi 50 cm bo‘lib, B idish esa bo‘sh edi.




Botir A idishdan B idishga biroz suv quydi. Natijada A idishdagi suv sathi balandligi B idishdagi suv sathi balandligining ikki baravariga teng bo‘lib qoldi. B idishdagi suv sathining balandligi qancha bo‘ldi?

### Reja

### Yechish



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## Tekshirish



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## Matematika kundaligi



Javohir hajmi 64 $cm^3$ bo‘lgan kubning qirrasi uzunligini topish uchun quyida ko‘rsatilganidek kalkulyator tugmachalarini bosdi.




a) Javohir to‘g‘ri javobni topa olmadi. Nima uchun?

b) Agar u kub ildiz tugmachasidan foydalanganida, qanday javob chiqar edi?






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**Ism:** **Sinf:** **Sana:**

# I TAKRORLASH

## Tezlik

**1** Quyidagi jadvalni to‘ldiring.

| Masofa (km) | Vaqt (h) | Tezlik (km/h) |
|---|---|---|
| | 10 | 65 |
| 604 | 8 | |
| 1680 | | 280 |

**2** X va Y shaharchalar orasidagi masofa 60 km. Y shaharchadan Z shaharchagacha masofa 150 km. Samad aka X shaharchadan Z shaharchaga yengil avtomobilda, Karim esa mototsiklda bordi. Quyidagi jadvalni to‘ldiring.

| Ism | X dan Y ga borish uchun ketgan vaqt | Y dan Z ga borish uchun ketgan vaqt | Jami bosib o‘tilgan masofa | Jami sarflangan vaqt | O‘rtacha tezlik |
|---|---|---|---|---|---|
| Samad aka | 1 h | 2 h | | | |
| Karim | 2 h | 5 h | | | |

**3** Murod A shahardan C shaharga B shahar orqali bordi.
Quyidagi jadvalni to‘ldiring.

| Sayohat | Tezlik (km/h) | Sarflangan vaqt (h) | Masofa (km) |
|---|---|---|---|
| A shahardan B shaharga | 60 | $\frac{1}{3}$ | |
| B shahardan C shaharga | 70 | $\frac{1}{2}$ | |
| | | Jami masofa | |



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4 Orasidagi masofa 540 km bo‘lgan P shahardan Q shaharga poyezd 48 km/h tezlikda borib, qaytishda 60 km/h tezlikda yurdi.
Poyezd Q shahardan P shaharga qaytishda borishdagidan qancha kam vaqt sarflagan?



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**5** A va B qishloqlar orasidagi masofa 30 km. Salim soat 8:30 da A qishloqdan B qishloq tomon velosipedda 12 km/h tezlikda yo‘lga chiqdi. Xuddi shu payt Hakim ham B qishloqdan A qishloq tomon velosipedda 16 km/h tezlikda yo‘lga chiqdi. Yarim soatdan so‘ng ular orasidagi masofa qancha bo‘ladi?



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## Hajm

**6** Kub va kuboidning hajmini toping.

a)

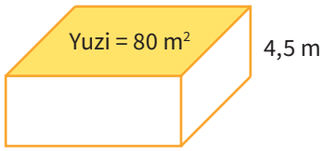


5 cm

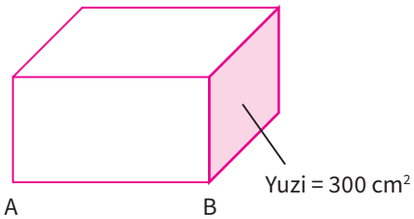
b)




**7** Kuboidning bo‘yalgan yog‘ining yuzi 80 $m^2$. Uning hajmini toping.



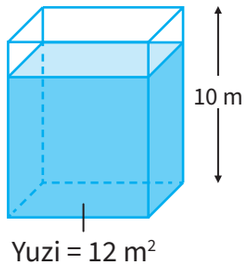

**8** Quyida keltirilgan kuboid hajmi 6900 $cm^3$, bo‘yalgan yog‘ining yuzi esa 300 $cm^2$ ga teng. AB qirra uzunligini toping.



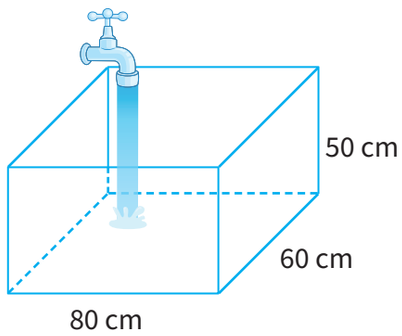



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**9** Balandligi 10 m, asosining yuzi esa 12 $m^2$ bo‘lgan kuboid shaklidagi idishda 96 $m^3$ suv bor. Ushbu idishni to‘ldirish uchun yana qancha suv kerak bo‘ladi?



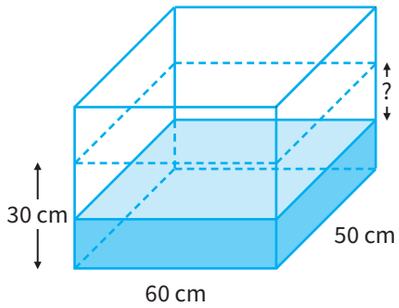

**10** O‘lchovlari 80 cm, 60 cm va 50 cm bo‘lgan kuboid shaklidagi idishga minutiga 12 $\ell$ tezlikda suv tushishni boshladi. Idishni to‘ldirish uchun qancha vaqt kerak bo‘ladi?






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**11** Bo‘yi 60 cm, eni esa 50 cm bo‘lgan kuboid shaklidagi idish dastlab 30 cm balandlikda suv bilan to‘ldirildi. Ushbu idishdan 48 $\ell$ suv to‘kib tashlanganidan keyin idishdagi suv sathining balandligi qanchaga kamayadi?






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Ism: Sinf: Sana:

# 9 Doiraviy diagramma

Eslang 

## Jadvallar, ustunli va chiziqli diagrammalar

**1** Jadvalda maktabning 6-sinf o‘quvchilari sevib o‘qigan 3 xil yo‘nalishdagi hikoyalar soni haqida ma’lumot keltirilgan.

a) Quyidagi jadvalni to‘ldiring.

| | **O‘g‘il bolalar** | **Qizlar** | **Jami** |
|---|---|---|---|
| Sarguzasht | 24 | 46 | |
| Hajviy | 36 | | 68 |
| Fantastika | | 40 | 84 |
| **Jami** | | 118 | |

b) O‘g‘il bolalar eng ko‘p qaysi mavzudagi hikoyalarni o‘qigan? _____

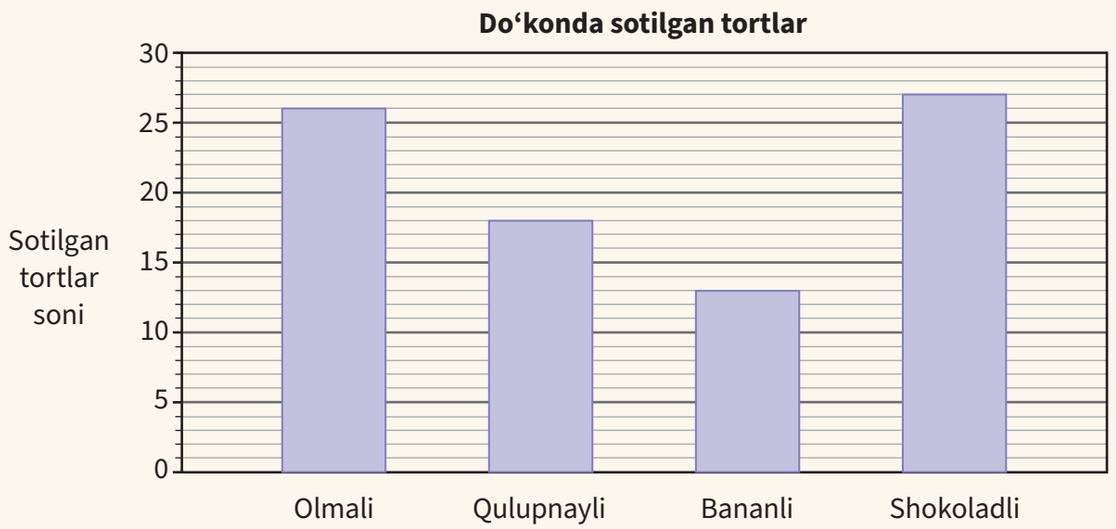
c) Hajviy hikoyalarni qizlar o‘g‘il bolalardan nechta kam o‘qigan? _____

d) Sarguzasht hikoyalarni qizlar o‘g‘il bolalardan nechta ko‘p o‘qigan? _____



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**2** Quyidagi ustunli diagrammada shanba kuni do‘konda sotilgan tortlar soni haqida ma’lumot keltirilgan.




a) Qaysi turdagi tortlar eng kam sotilgan? _____

b) Hammasi bo‘lib nechta tort sotilgan? _____

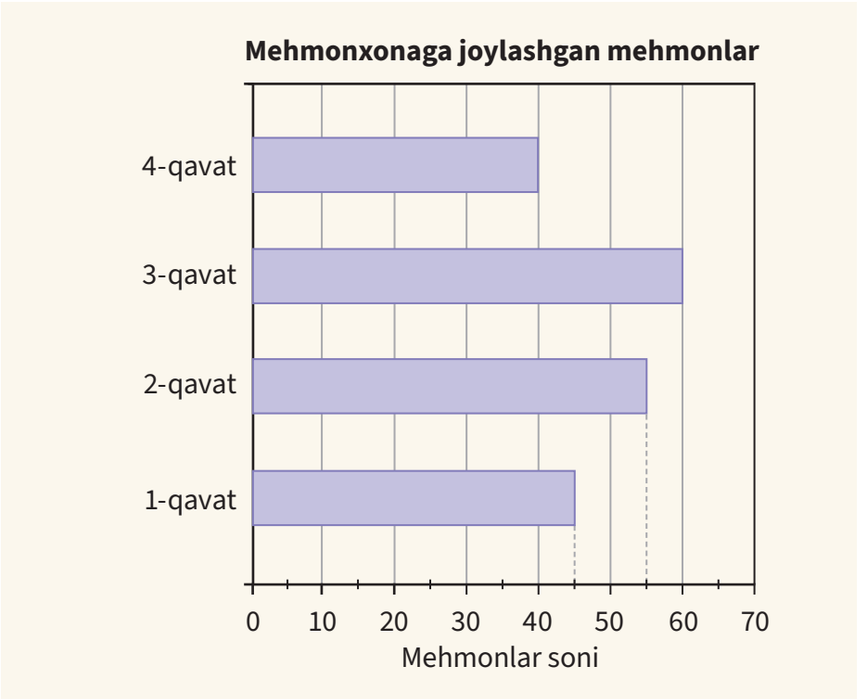
c) Qaysi turdagi tortlar bananli tortlardan ikki baravar ko‘p sotilgan? _____

d) Har bir tortning narxi 150 000 so‘m bo‘lsa, jami necha so‘mlik tort sotilgan? _____



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**3** Quyidagi diagrammada to‘rt qavatli mehmonxonaning har bir qavatidagi mehmonlar soni ko‘rsatilgan.




a) Mehmonxonaga jami nechta mehmon joylashgan? _____

b) Har bir qavatda o‘rtacha nechtadan mehmon bor? _____

c) Qaysi qavatlardagi mehmonlar soni har bir qavatdagi mehmonlarning o‘rtacha sonidan kamroq?

_____

d) Juft qavatlardagi mehmonlar soni 60 tadan bo‘lishi uchun yana kamida nechta mehmon joylashishi kerak?

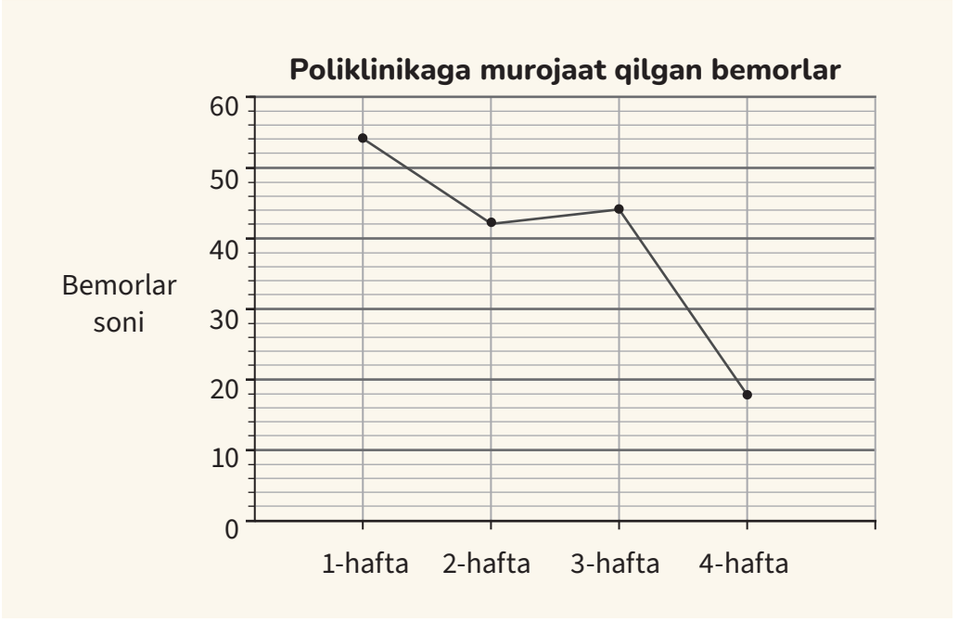
_____

e) Mehmonxonadagi jami mehmonlarning qanday qismi toq qavatlarda joylashgan? Javobni qisqarmas kasr shaklida ifodalang. _____



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**4** Quyidagi chiziqli diagrammada 4 hafta davomida poliklinikaga murojaat qilgan bemorlar soni ko‘rsatilgan.




a) 2-haftada poliklinikaga nechta bemor murojaat qilgan? _____

b) Poliklinikaga 3-haftada murojaat qilgan bemorlar 2-haftadagidan nechtaga ko‘p? _____

c) Poliklinikaga 4-haftada murojaat qilgan bemorlar 3-haftadagidan nechtaga kam? _____

d) Poliklinikaga 1-haftada 4-haftadagidan necha marta ko‘p bemor murojaat qilgan? _____

e) Poliklinikaga 4 haftada jami nechta bemor murojaat qilgan? _____



87 MATEMATICS WORKBOOK G6 P2 UZB 220x290 136PG (1) (1).indd 66 26/11/24 10:49

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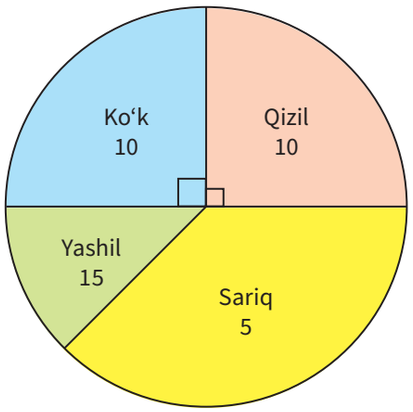
# Ma’lumotlarni doiraviy diagrammada tasvirlash

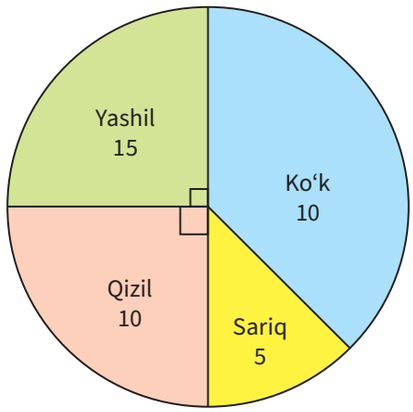
## D1 1-topshiriq

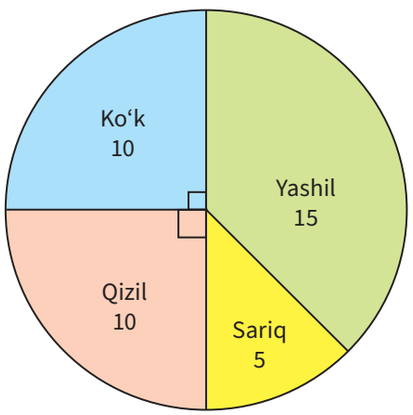
**1** Quyidagi jadvalda 6-sinf o‘quvchilari qaysi rangni yoqtirishi ko‘rsatilgan.

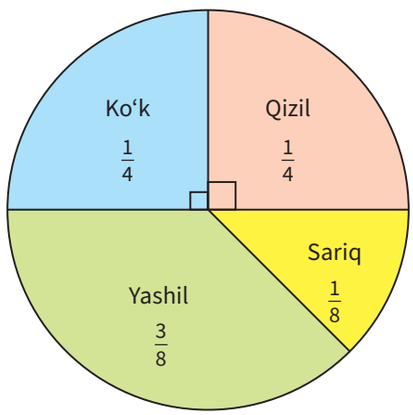
| **Rang** | Ko‘k | Yashil | Qizil | Sariq |
|---|---|---|---|---|
| **O‘quvchilar soni** | 10 | 15 | 10 | 5 |

Jadvaldagi ma’lumotlar to‘g‘ri ifodalangan doiraviy diagramma ostiga belgi ( ✓ ) qo‘ying.



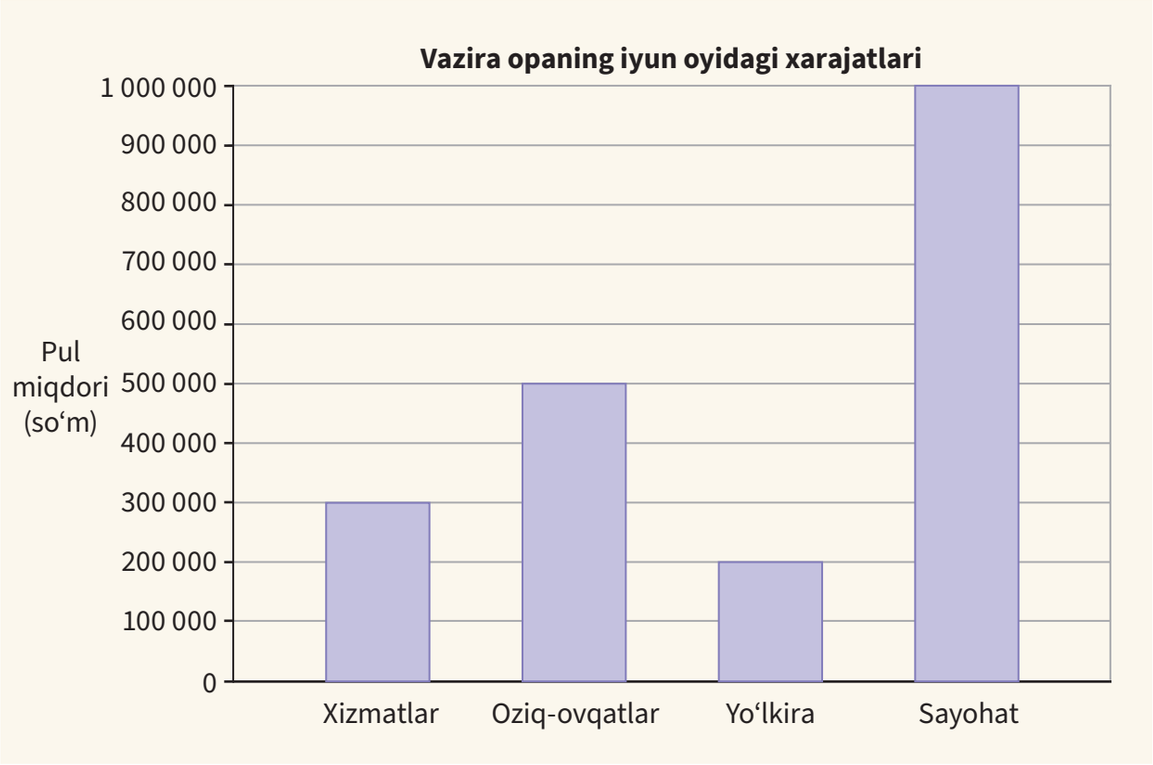



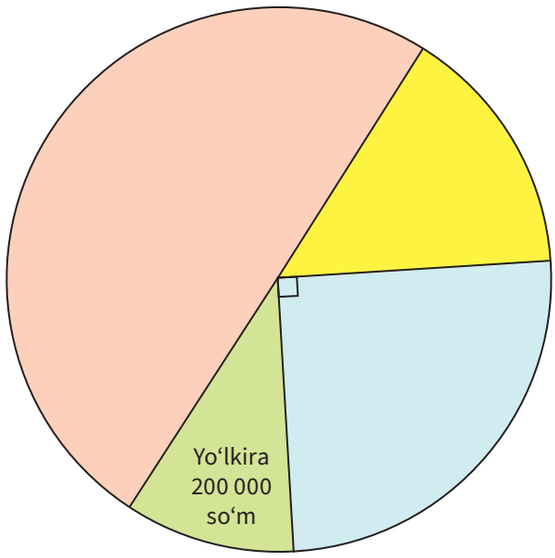



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**2** Quyidagi ustunli diagrammada Vazira opa iyun oyida 2 000 000 so‘mni qanday sarflagani ko‘rsatilgan.



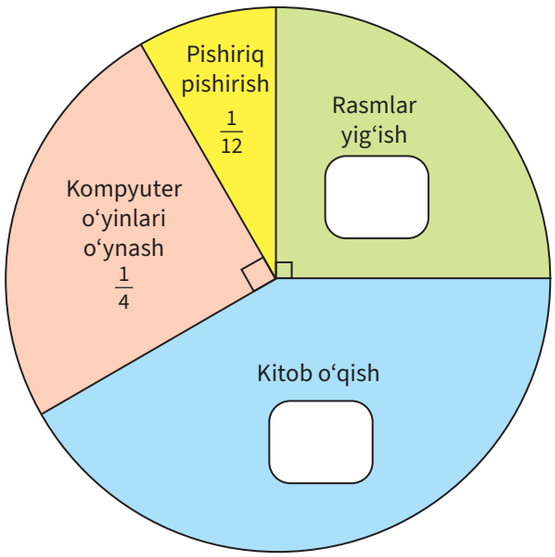

Berilgan ma’lumotlar asosida quyidagi doiraviy diagrammani to‘ldiring.



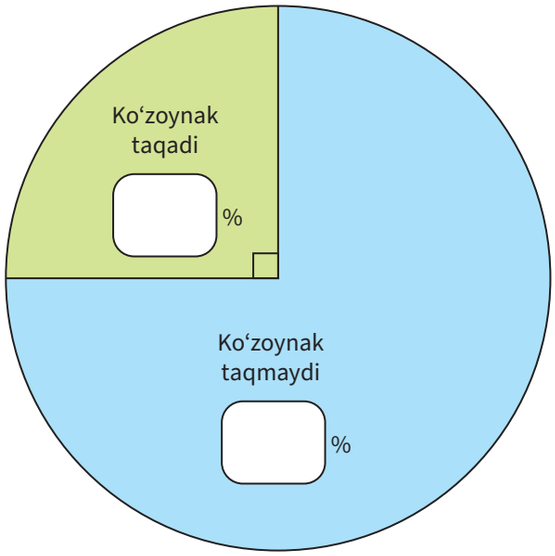



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**3** Doiraviy diagrammada 80 nafar 6-sinf o‘quvchisining sevimli mashg‘ulotlari tasvirlangan. Bo‘sh kataklarga tushirib qoldirilgan kasrlarni yozing.



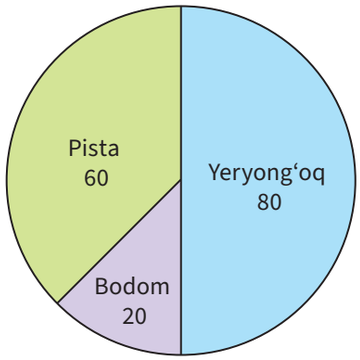

**4** Doiraviy diagrammada ko‘zoynak taqadigan va taqmaydigan o‘quvchilar haqida ma’lumot tasvirlangan. Bo‘sh kataklarga tushirib qoldirilgan foizlarni yozing.






87 MATEMATICS WORKBOOK G6 P2 UZB 220x290 136PG (1) (1).indd 69 26/11/24 10:49

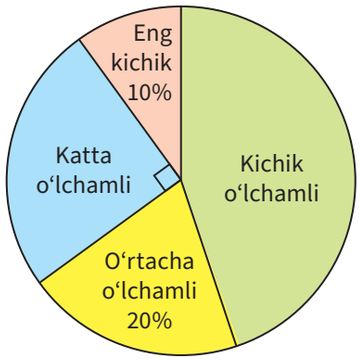
**5** Doiraviy diagrammada do‘konda sotilgan ba’zi mahsulot turlarining massasi (kg) keltirilgan.




Quyidagi jadvalni to‘ldiring.

| Mahsulot turi | Qismi | Foizi |
|---|---|---|
| Yeryong‘oq | | |
| Bodom | $\frac{1}{8}$ | |
| Pista | | 37,5% |

**6** Doiraviy diagrammada do‘konda sotilgan har xil o‘lchamdagi futbolkalarning foizi tasvirlangan.




Quyidagi jadvalni to‘ldiring.

| Sotilgan futbolkalar o‘lchami | Qismi | Foizi |
|---|---|---|
| Kichik (S) | | |
| O‘rtacha (M) | $\frac{1}{5}$ | 20% |
| Katta (L) | | |
| Eng kichik (XS) | | 10% |



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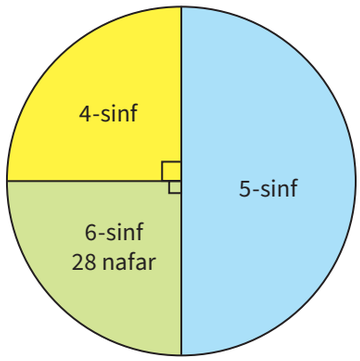
# Doiraviy diagrammalarda ma’lumotlarni o‘qish va talqin qilish

## D1 2-topshiriq

**1** Doiraviy digrammada maktabdagi shaxmat klubiga a’zo o‘quvchilar soni 4-sinfdan 6-sinfgacha kesimda tasvirlangan.

a) _____ nafar 4-sinf o‘quvchisi shaxmat klubiga a’zo.

b) _____ nafar 5-sinf o‘quvchisi shaxmat klubiga a’zo.



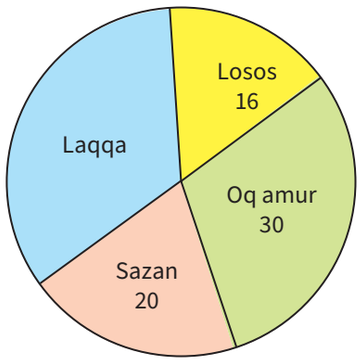

**2** Doiraviy digrammada hovuzdagi baliq turlarining soni haqida ma’lumot keltirilgan.

a) Hovuzdagi oq amurlar sazanlardan nechtaga ko‘p?

_____

b) Laqqa baliqlar soni nechta?

_____



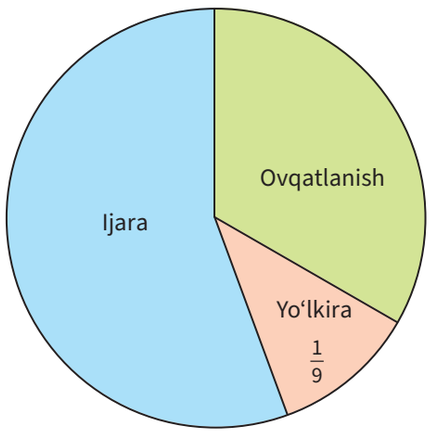

c) Hovuzdagi baliqlarning qancha qismi laqqa baliq?

_____



87 MATEMATICS WORKBOOK G6 P2 UZB 220x290 136PG (1) (1).indd 71 26/11/24 10:49

**3** Quyidagi doiraviy diagrammada Asliddin amakining bir oylik xarajatlari tasvirlangan. U ijara uchun yo‘lkiraga nisbatan 5 marta ko‘p pul sarflagan.

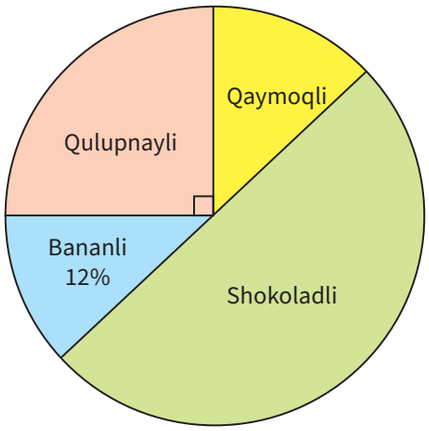



a) Pulning qancha qismi ijara uchun sarflangan? _____

b) Pulning qancha qismi ovqatlanish uchun sarflangan?
Javobni qisqarmas kasr ko‘rinishida ifodalang.

_____

**4** Quyidagi doiraviy diagrammada o‘quvchilar yoqtirgan muzqaymoqlar haqida so‘rovnoma asosidagi ma’lumot aks etgan. 150 nafar o‘quvchi shokoladli muzqaymoqni yoqtirishi ma’lum.




a) So‘rovnomada nechta o‘quvchi ishtirok etgan?

_____

b) Nechta o‘quvchi qulupnayli muzqaymoqni yoqtiradi?

_____

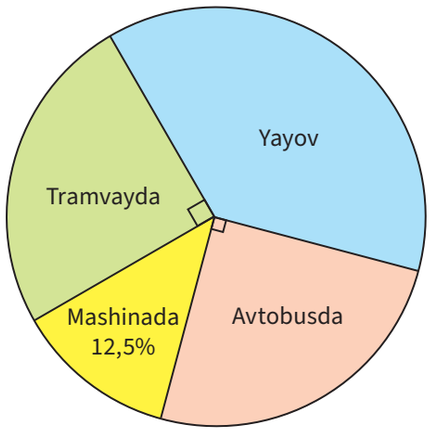


87 MATEMATICS WORKBOOK G6 P2 UZB 220x290 136PG (1) (1).indd 72 26/11/24 10:49

**Ism:** **Sinf:** **Sana:**

# D2 3-topshiriq

**1** Doiraviy diagrammada 6-sinf o‘quvchilarining maktabga borish usullari haqida ma’lumot tasvirlangan. 80 nafar o‘quvchi maktabga avtobusda borishi ma’lum.




a) Maktabga borish uchun o‘quvchilar qaysi transportlardan bir xil foizda foydalanadi? _____

b) 6-sinf o‘quvchilarining necha foizi maktabga yayov boradi? _____

c) Maktabga avtobusda boradigan 6-sinf o‘quvchilari mashinada boradiganlardan necha marta ko‘p? _____

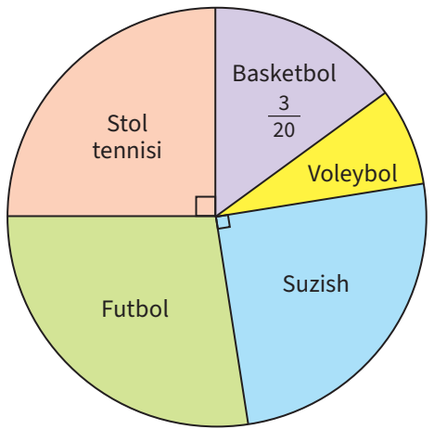
d) Maktabning 6-sinfida necha nafar o‘quvchi tahsil oladi? _____

e) Maktabga necha nafar 6-sinf o‘quvchisi yayov boradi? _____



87 MATEMATICS WORKBOOK G6 P2 UZB 220x290 136PG (1) (1).indd 73 26/11/24 10:49

**2** Doiraviy diagrammada maktabdagi barcha 6-sinf o‘quvchilarining yoqtirgan sport turlari haqida ma’lumot tasvirlangan. Basketbolni yoqtirgan o‘quvchilar voleybolni yoqtirgan o‘quvchilardan ikki baravar ko‘p va 110 nafar o‘quvchi suzishni yoqtirishi ma’lum.




a) O‘quvchilarning qancha qismi voleybolni yoqtiradi? _____

b) O‘quvchilarning qancha qismi futbolni yoqtiradi? _____

c) Suzishni yoqtirgan o‘quvchilar soni necha nafar? _____

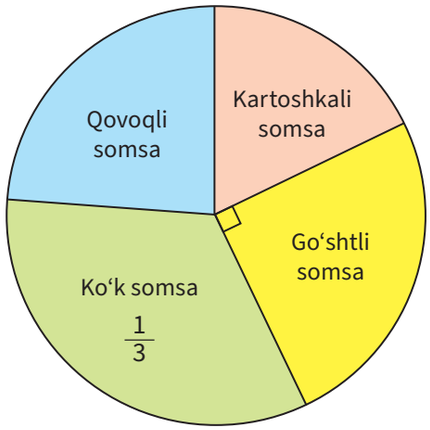
d) Maktabning 6-sinfida jami necha nafar o‘quvchi tahsil oladi? _____

e) Basketbolni yoqtirgan o‘quvchilar soni necha nafar? _____



87 MATEMATICS WORKBOOK G6 P2 UZB 220x290 136PG (1) (1).indd 74 26/11/24 10:49

**3** Doiraviy diagrammada Navro‘z bayramida dasturxonga tortilgan somsalar haqida ma’lumot tasvirlangan.




a) Dasturxondagi somsalarning necha foizi qovoqli, kartoshkali va ko‘k somsalar? _____

b) Dasturxonga 140 ta ko‘k somsa tortilgani ma’lum. Dasturxonga jami nechta somsa tortilgan? _____

c) Dasturxonga nechta go‘shtli somsa tortilgan? _____

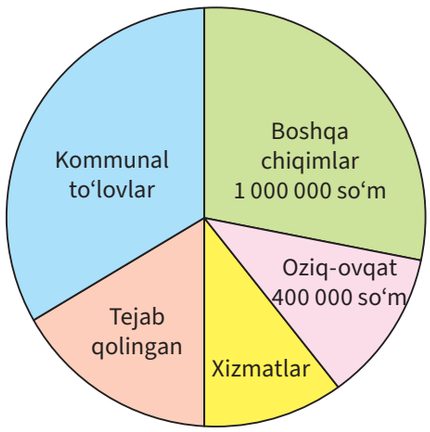
d) Dasturxonga tortilgan kartoshkali va go‘shtli somsalar sonining nisbati 5 : 7. Dasturxonga nechta kartoshkali somsa tortilgan? _____

e) Dasturxonga tortilgan qovoqli va kartoshkali somsalar barcha somsalarning qancha qismini tashkil etadi? _____



87 MATEMATICS WORKBOOK G6 P2 UZB 220x290 136PG (1) (1).indd 75 26/11/24 10:49

**4** Quyidagi doiraviy diagrammada Jahongir amaki maoshini qanday sarflagani tasvirlangan. U oziq-ovqat va xizmatlar uchun bir xil pul sarflagani ma’lum.




a) Jahongir amakining maoshi qancha? _____

b) U maoshining qancha qismini xizmatlar uchun sarflagan? _____

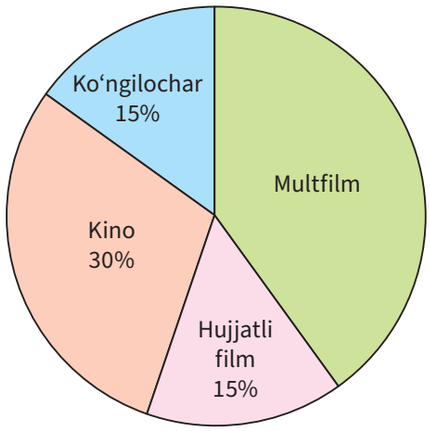
c) Kommunal to‘lovlar uchun ishlatilgan pulning tejab qolingan pulga nisbati 2 : 1. Qancha pul tejab qolingan? _____

d) Tejab qolingan pulning oziq-ovqatga sarflangan pulga nisbati qanday? Javobni qisqarmas shaklda ifodalang. _____



87 MATEMATICS WORKBOOK G6 P2 UZB 220x290 136PG (1) (1).indd 76 26/11/24 10:49

**5** Doiraviy diagrammada bolalar yoqtiradigan televizion dasturlar haqida so‘rovnoma asosidagi ma’lumot tasvirlangan.




a) Multfilmni yoqtiradigan bolalar necha foiz? _____

b) Kinoni yoqtiradigan bolalar hujjatli filmni yoqtiradigan bolalardan necha marta ko‘p? _____

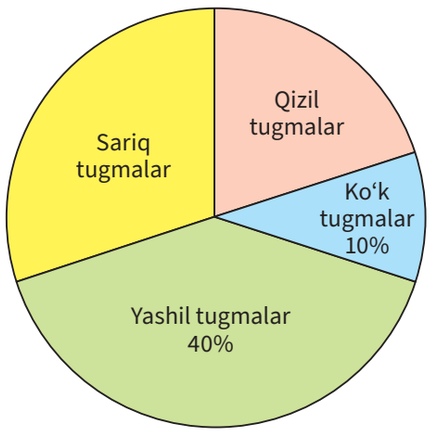
c) Ko‘ngilochar dasturlarni yoqtiradigan bolalar sonining multfilmni yoqtiradigan bolalar soniga nisbati qanday? _____

d) 240 ta bola multfilmni yoqtirishi ma’lum. So‘rovnomada necha nafar bola ishtirok etgan? _____



87 MATEMATICS WORKBOOK G6 P2 UZB 220x290 136PG (1) (1).indd 77 26/11/24 10:49

**6** Quyidagi doiraviy diagrammada qutidagi tugmalarning ranglar bo‘yicha foizi berilgan. Qutidagi ko‘k va yashil tugmalarning umumiy soni 100 ta bo‘lib, qolgani sariq va qizil tugmalar. Qizil tugmalar ko‘k tugmalardan 2 marta ko‘p.




a) Qizil tugmalar necha foiz? _____

b) Sariq tugmalar necha foiz? _____

c) Qutida jami nechta tugma bor? _____

d) Yashil tugmalar sonining sariq tugmalar soniga nisbati qanday? _____

e) Ikki xil rangdagi tugmalarning umumiy soni qutidagi jami tugmalar sonining $\frac{3}{5}$ qismini tashkil etadi. Ular qaysi rangdagi tugmalar? _____



87 MATEMATICS WORKBOOK G6 P2 UZB 220x290 136PG (1) (1).indd 78 26/11/24 10:49

**Ism:** **Sinf:** **Sana:**

## Amaliy topshiriq

Ma’lumotlarni doiraviy diagramma shaklida tasvirlang.

Juftlikda ishlang.

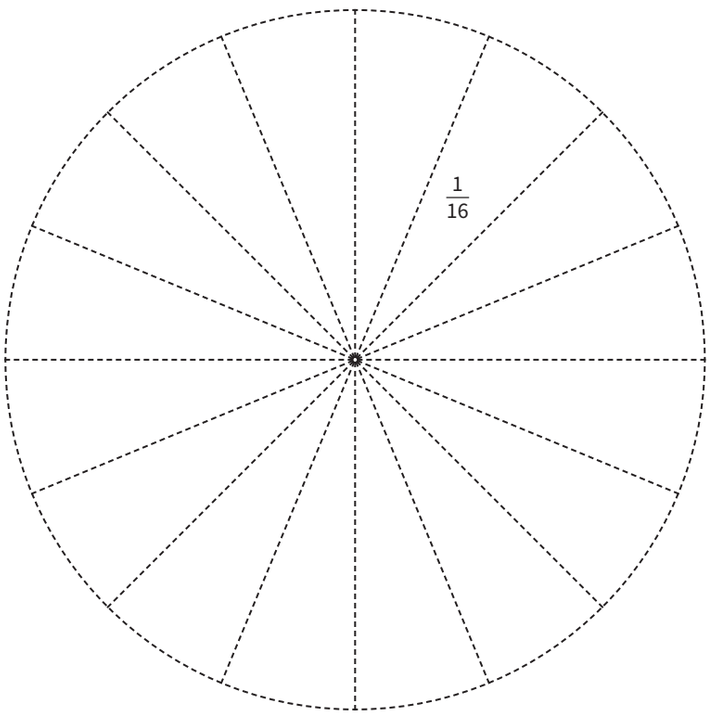
Berilgan ma’lumotlar asosida doiraviy diagrammani bo‘yang. 320 nafar bola o‘rtasida o‘tkazilgan so‘rovnomada ulardan qanday shirinlikni yoqtirishi so‘raldi.

Quyidagi jadvalda har bir shirinlikni nechta bola yoqtirishi ko‘rsatilgan.

| Shirinlik turi | Novvot | Shakar | Murabbo | Asal |
|---|---|---|---|---|
| Bolalar soni | 80 | 20 | 120 | 100 |
| Qismi | | | | |

a) Har bir shirinlikni bolalarning qancha qismi yoqtirishini aniqlab, jadvalni to‘ldiring.

b) Ushbu ma’lumotlarni berilgan doiraviy diagrammada tasvirlang. Har bir shirinlik uchun turli rangdan foydalanib natijalarni doiraviy diagrammada qayd eting.



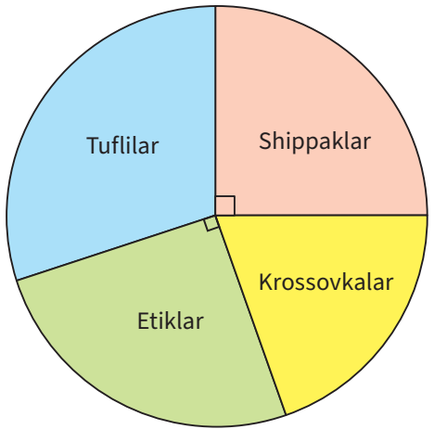



87 MATEMATICS WORKBOOK G6 P2 UZB 220x290 136PG (1) (1).indd 79 26/11/24 10:49

## Matematika kundaligi

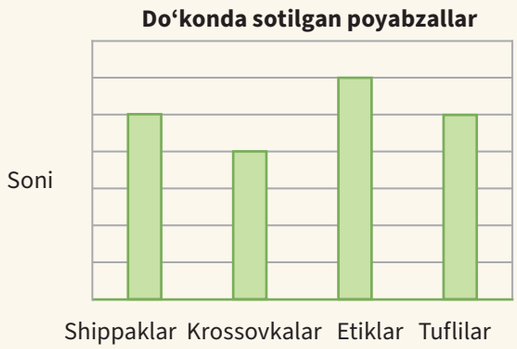


Doiraviy diagrammada yakshanba kuni do‘konda sotilgan poyabzallar haqida ma’lumot tasvirlangan.

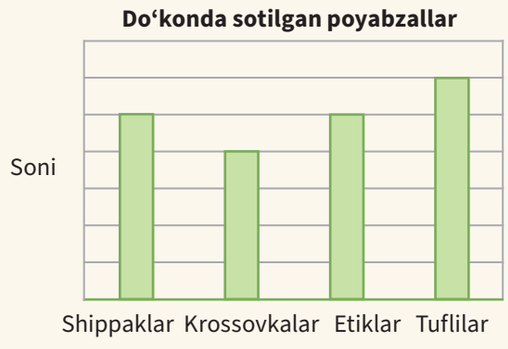



Quyidagi ustunli diagrammalarning qay birida ushbu doiraviy diagrammadagi ma’lumotlar to‘g‘ri aks ettirilgan? Javobingizni izohlang.

A diagramma




B diagramma






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Ism: Sinf: Sana:

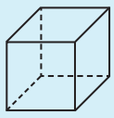
# 10 Fazoviy jismlar va ularning yoyilmalari

Eslang 

## Kub va kuboidlar

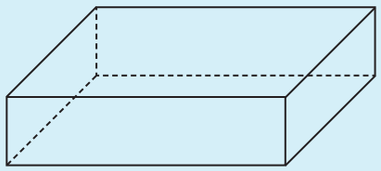
**1** Bo‘sh joylarni to‘ldiring.

a)



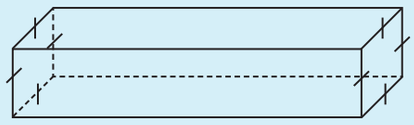
Bu jism _____ bo‘lib, uning _____ ta kvadrat shaklidagi yog‘i bor.

b)



Bu jism _____ bo‘lib, uning ____ ta to‘g‘ri to‘rtburchak shaklidagi yog‘i bor.

c)



Bu jism _____ bo‘lib, uning _____ ta to‘g‘ri to‘rtburchak shaklidagi va _____ ta kvadrat shaklidagi yoqlari bor.



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**2** Quyidagilardan qaysi biri kub yoki kuboid? Bo‘sh joylarni to‘ldiring.

a) Yog‘och bo‘lagi



_____

b) Shashqol



_____

c) G‘isht



_____

d) Poyabzal qutisi



_____

e) Sariyog‘




_____

f) Qog‘oz quti




_____



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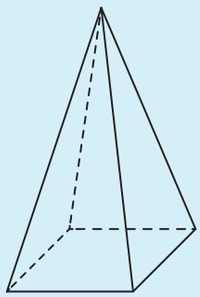
Ism: Sinf: Sana:

# Konus, silindr, prizma va piramida

## D1 1-topshiriq

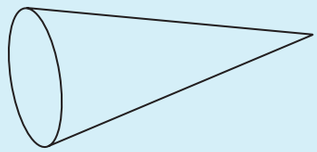
**1** Quyidagi shakllarning nomini yozing.

a)



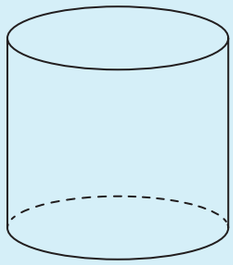
_____

b)



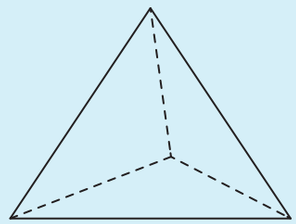
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c)



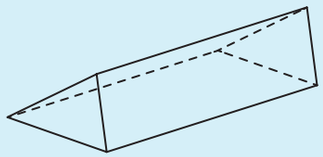
_____

d)



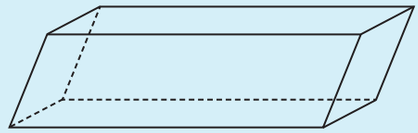
_____

e)



_____

f)



_____



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**2** Quyidagi shakllarning nomini yozing.

a) Sendvich



_____

b) Shokolad qutisi




_____

c) Muzqaymoq



_____

d) Neft mahsulotlari solinadigan bochka



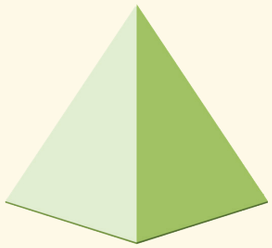

_____

e) Isitish qozoni



_____

f) Sovg‘a qutisi



_____



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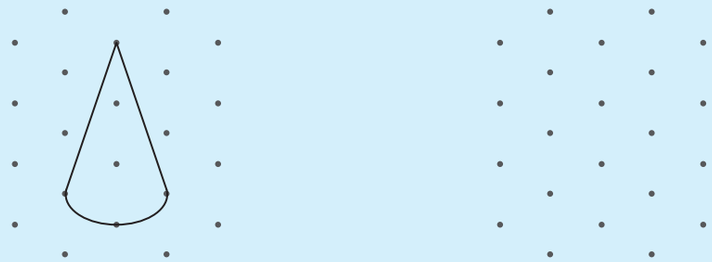
Ism: Sinf: Sana:

# Fazoviy jismlarni uch o‘lchamli panjarada chizish

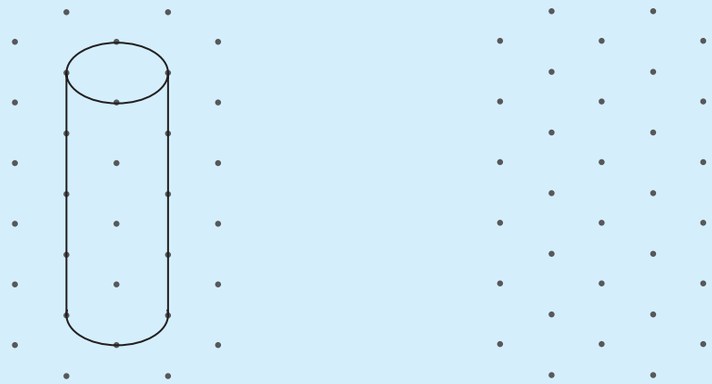
## D1 2-topshiriq

1 Har bir fazoviy jism nusxasini berilgan uch o‘lchamli panjarada chizing.

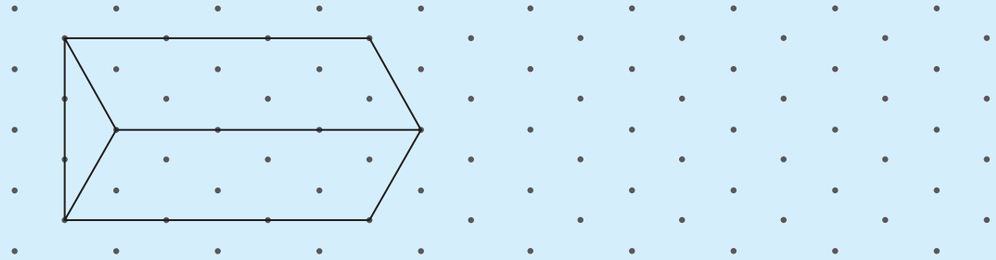
a)



b)



c)

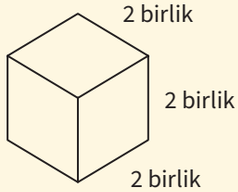




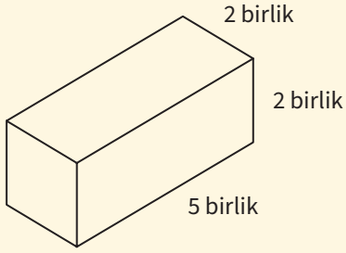
87 MATEMATICS WORKBOOK G6 P2 UZB 220x290 136PG (1) (1).indd 85 26/11/24 10:49

**2** Har bir fazoviy jism nusxasini berilgan uch o‘lchamli panjarada chizing.

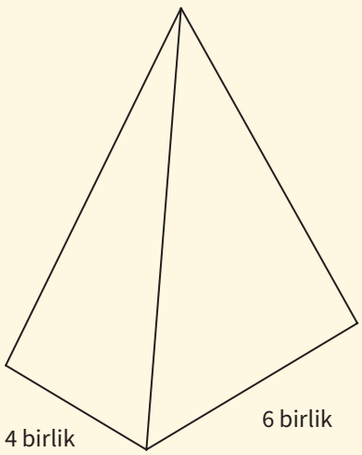
a)




b)



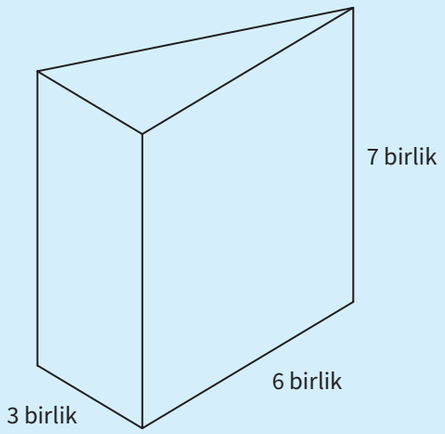

c)



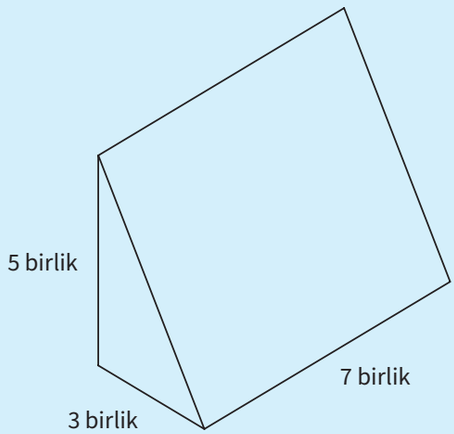



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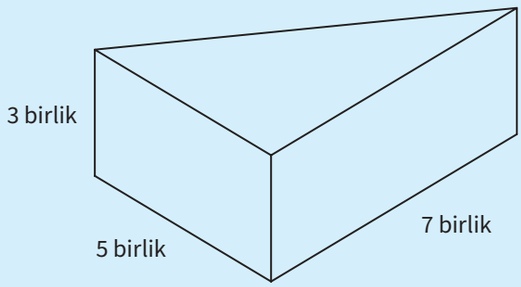
d)




e)



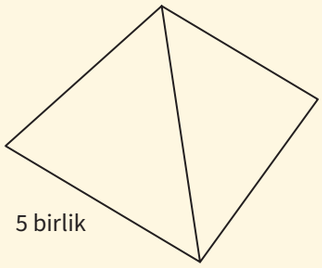

f)

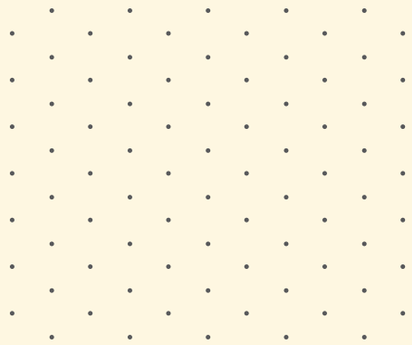




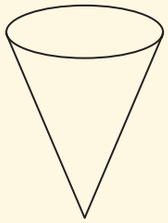

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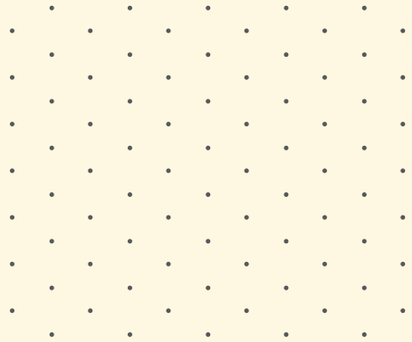
g)



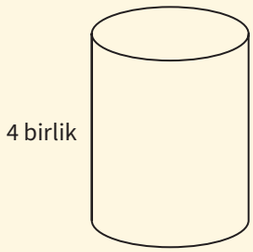



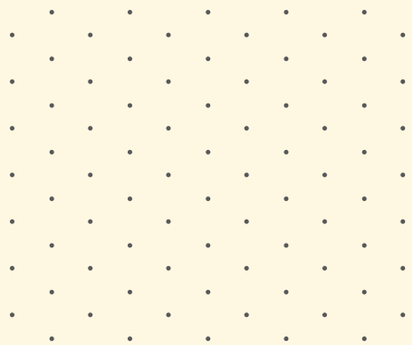
h)





i)





87 MATEMATICS WORKBOOK G6 P2 UZB 220x290 136PG (1) (1).indd 88 26/11/24 10:49

**Ism:** **Sinf:** **Sana:**

# Fazoviy jismlar yoyilmasi

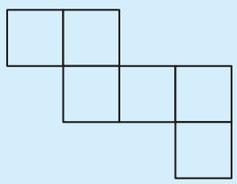
## D2 3-topshiriq

Berilgan fazoviy jismning barcha yoyilmalarini belgi ( ✓ ) bilan belgilang.

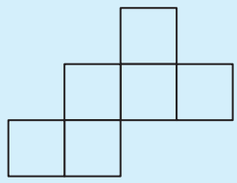
**1** Kub.



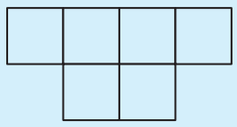
a)



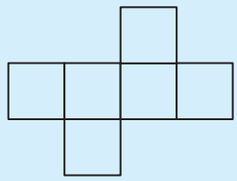
b)



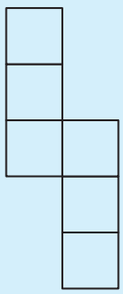
c)



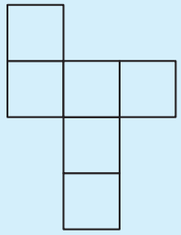
d)



e)



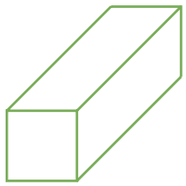
f)



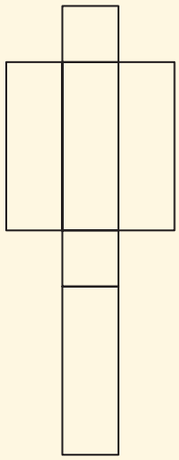


87 MATEMATICS WORKBOOK G6 P2 UZB 220x290 136PG (1) (1).indd 89 26/11/24 10:49

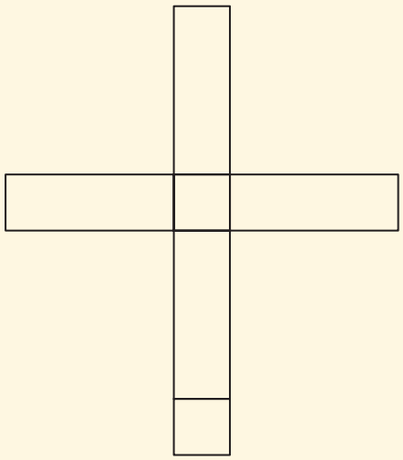
**2** Kuboid.



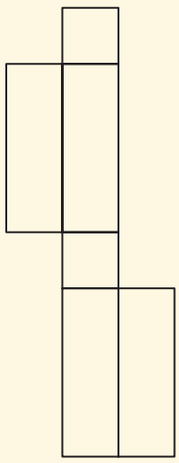
a)



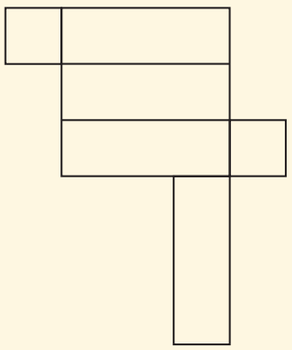
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c)



d)





87 MATEMATICS WORKBOOK G6 P2 UZB 220x290 136PG (1) (1).indd 90 26/11/24 10:49

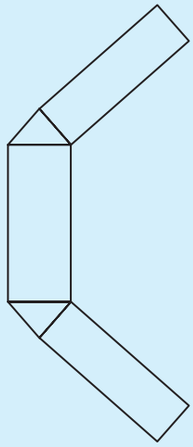
**3** Prizma.



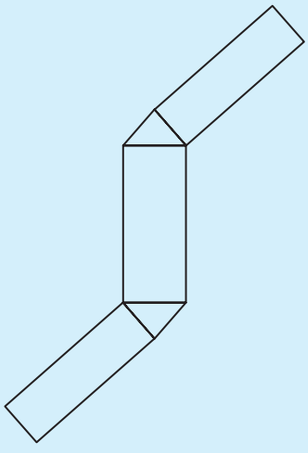
a)



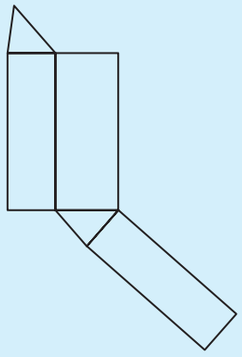
b)



c)



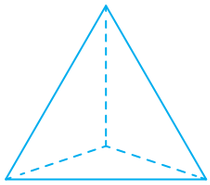
d)



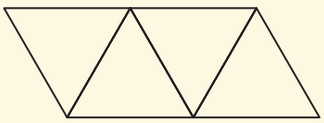


87 MATEMATICS WORKBOOK G6 P2 UZB 220x290 136PG (1) (1).indd 91 26/11/24 10:49

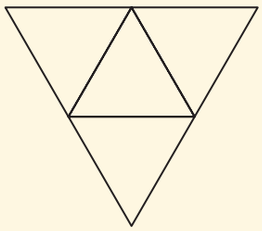
**4** Piramida.



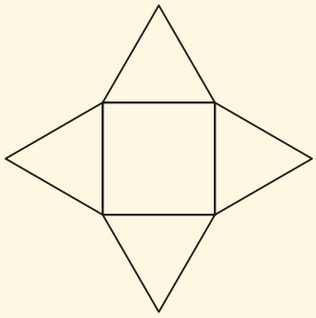
a)



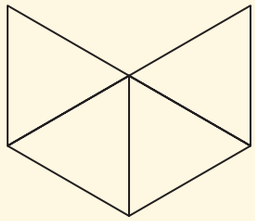
b)



c)



d)





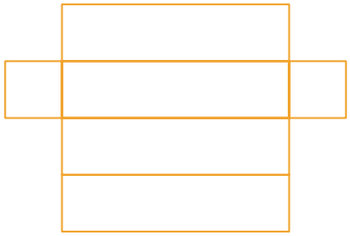
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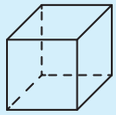
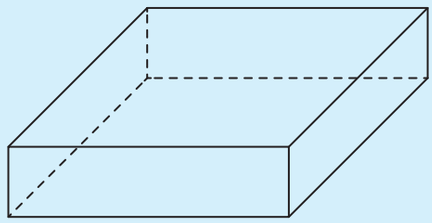
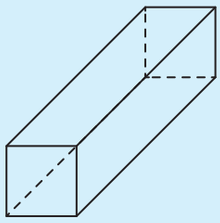
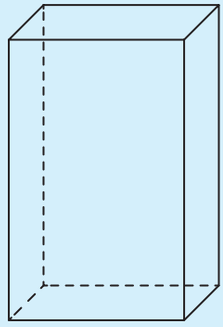
**Ism:** **Sinf:** **Sana:**

## D1 4-topshiriq

Berilgan yoyilmadan hosil qilish mumkin bo‘lgan fazoviy jismni belgi ( ✓ ) bilan belgilang.

**1**

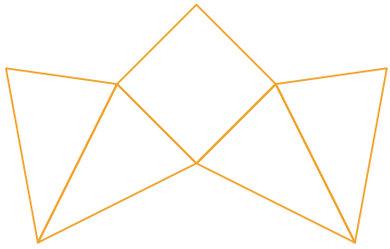


| | |
|---|---|
| a)  ☐ | b)  ☐ |
| c)  ☐ | d)  ☐ |

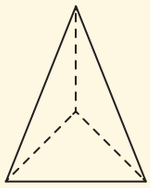


87 MATEMATICS WORKBOOK G6 P2 UZB 220x290 136PG (1) (1).indd 93 26/11/24 10:49

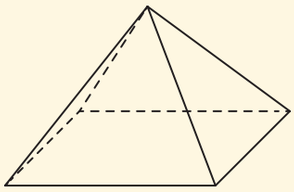
**2**



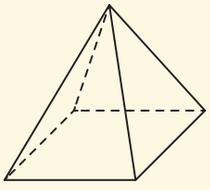
a)



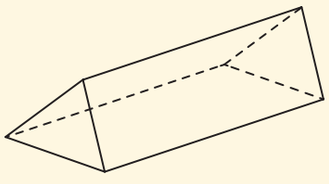
b)



c)



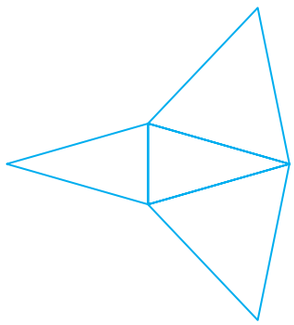
d)



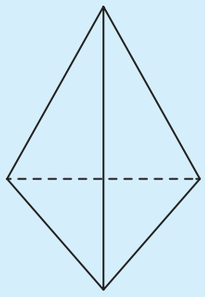


87 MATEMATICS WORKBOOK G6 P2 UZB 220x290 136PG (1) (1).indd 94 26/11/24 10:49

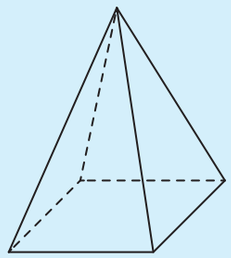
**3**



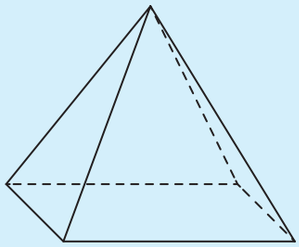
a)



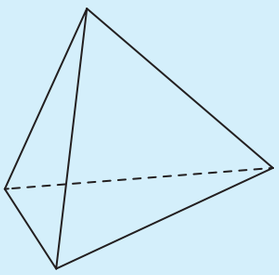
b)



c)



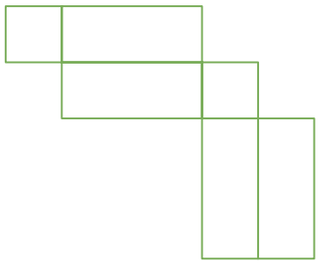
d)





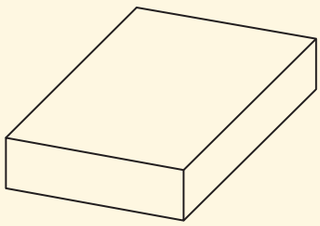
87 MATEMATICS WORKBOOK G6 P2 UZB 220x290 136PG (1) (1).indd 95 26/11/24 10:49

**4**



a)

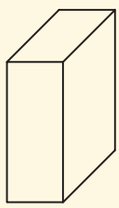
b)



c)



d)



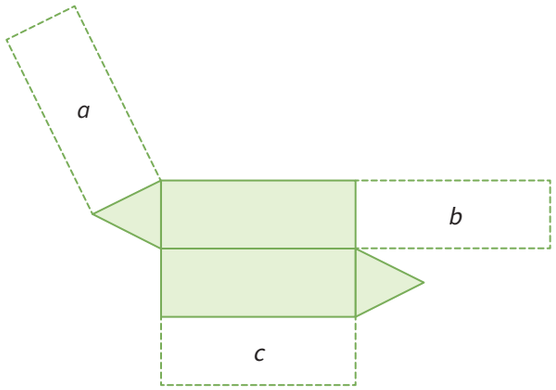


87 MATEMATICS WORKBOOK G6 P2 UZB 220x290 136PG (1) (1).indd 96 26/11/24 10:49

**Ism:** **Sinf:** **Sana:**

## D2 5-topshiriq

1 Javlon quyidagi yoyilmadan prizma yasamoqchi. U *a*, *b* yoki *c* to‘g‘ri to‘rtburchaklardan qaysi birini bo‘yalgan soha bilan birlashtirsa, prizmaning yoyilmasi hosil bo‘ladi?

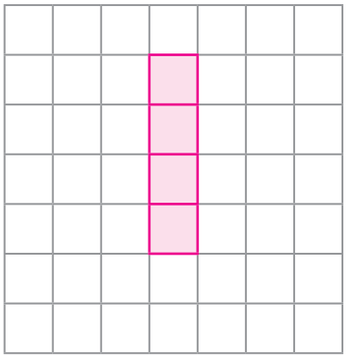




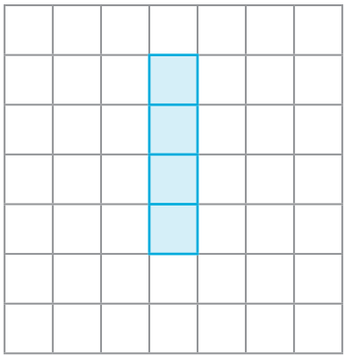

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**2** Quyida kubning oltita to‘liq bo‘lmagan yoyilmasi ko‘rsatilgan. Har bir kvadrat to‘rdagi ikkitadan katakni shunday bo‘yangki, natijada kubning oltita turli yoyilmasi hosil bo‘lsin.

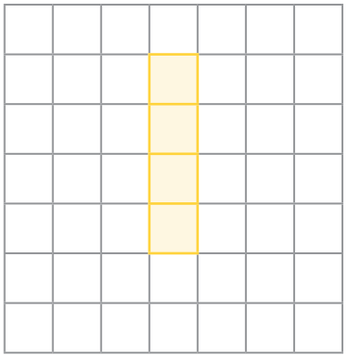
a)



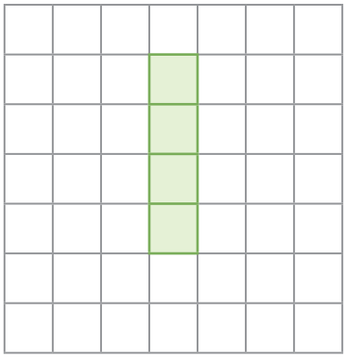
b)



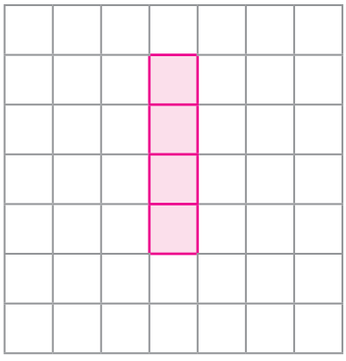
c)



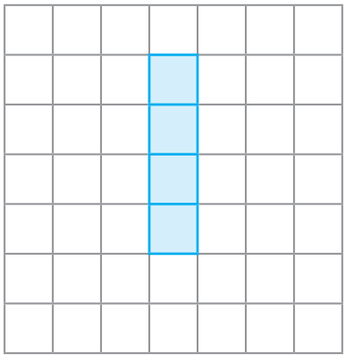
d)



e)



f)





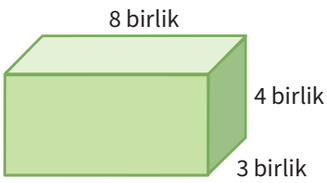
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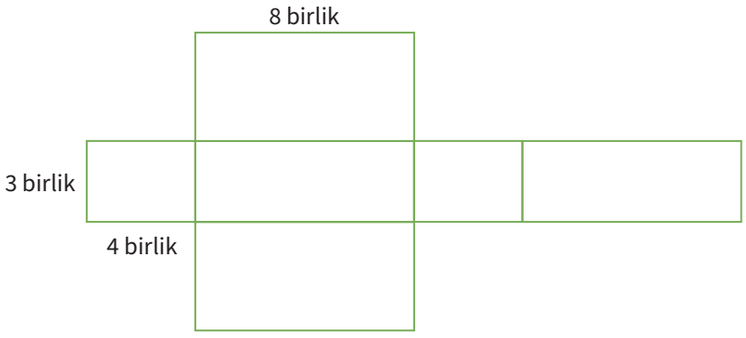
**Ism:** **Sinf:** **Sana:**

## Amaliy topshiriq

Kuboidning biror yoyilmasini chizing.

Quyida kuboid va uning yoyilmalaridan biri ko‘rsatilgan. Berilgan o‘lchamlar asosida kvadrat to‘rga kuboid yoyilmasini chizing va bo‘yang.




1 birlik

1 birlik

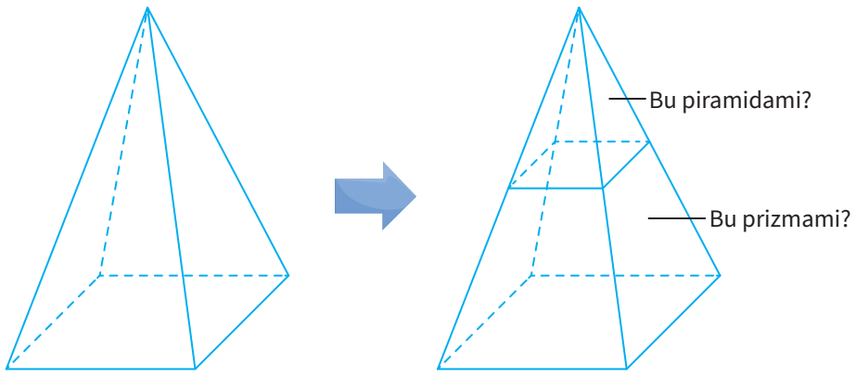


87 MATEMATICS WORKBOOK G6 P2 UZB 220x290 136PG (1) (1).indd 99 26/11/24 10:49

## Matematika kundaligi



Olimjon piramidani rasmda ko‘rsatilganidek kesib ikki bo‘lakka ajratsa, piramida va prizma hosil bo‘ladimi? Javobingizni tushuntiring.





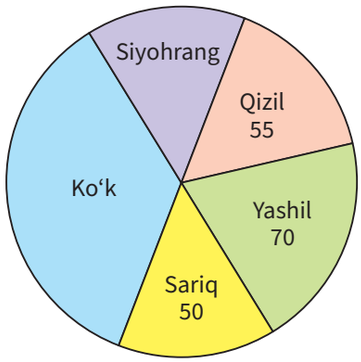

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**Ism:** **Sinf:** **Sana:**

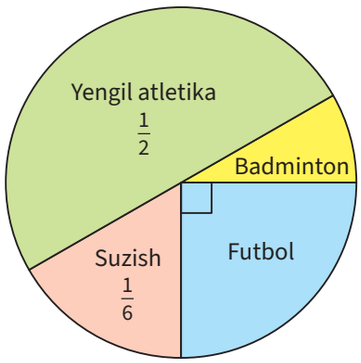
# II TAKRORLASH

## Doiraviy diagrammalar

**1** Quyidagi doiraviy diagrammada do‘kondagi rangli futbolkalar soni ko‘rsatilgan. Do‘konda nechta ko‘k futbolka bor?




**2** Quyidagi doiraviy diagrammada 6-sinf o‘quvchilarining sevimli sport turlari haqida ma’lumot ifodalangan. O‘quvchilarning 48 nafari futbolga qiziqadi.



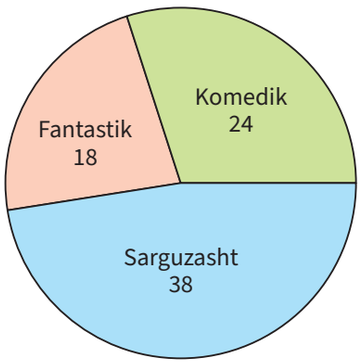

a) O‘quvchilarning qancha qismi uchun badminton eng sevimli sport turi?

b) Necha nafar o‘quvchining eng sevimli sport turi yengil atletika?



87 MATEMATICS WORKBOOK G6 P2 UZB 220x290 136PG (1) (1).indd 101 26/11/24 10:49

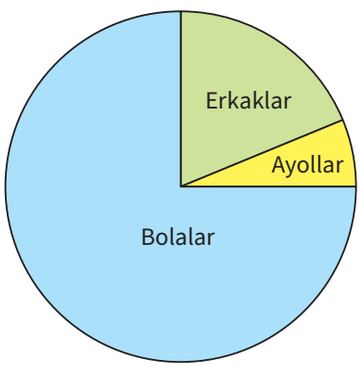
**3** Quyidagi doiraviy diagrammada 80 nafar o‘quvchining yoqtiradigan filmlari haqida ma’lumot aks etgan.




a) O‘quvchilarning necha foizi fantastik filmlarni tomosha qilishni yoqtiradi?

b) O‘quvchilarning qancha qismi komedik filmlarni tomosha qilishni yaxshi ko‘radi?

**4** Quyidagi doiraviy diagrammada istirohat bog‘idagi dam oluvchilarning $\frac{3}{4}$ qismi bolalar, qolganlari esa kattalar ekani tasvirlangan. Erkaklar soni 42 kishi bo‘lib, ayollardan 3 baravar ko‘p.




a) Istirohat bog‘ida nechta ayol bor?

b) Istirohat bog‘idagi jami dam oluvchilar nechta?

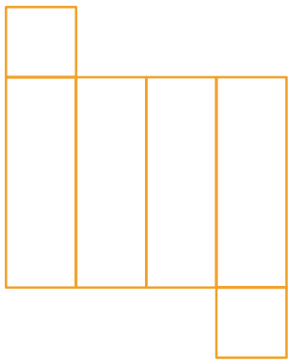


87 MATEMATICS WORKBOOK G6 P2 UZB 220x290 136PG (1) (1).indd 102 26/11/24 10:49

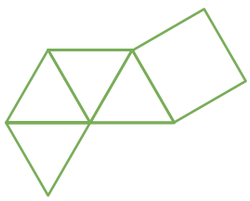
## Fazoviy jismlar va ularning yoyilmasi

**5** Quyidagi yoyilmalardan hosil bo‘ladigan fazoviy jismlar nomini yozing.

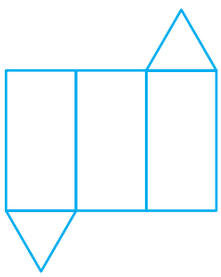
a)



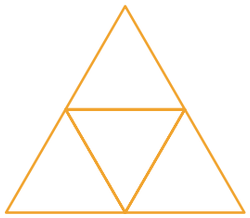
b)



c)



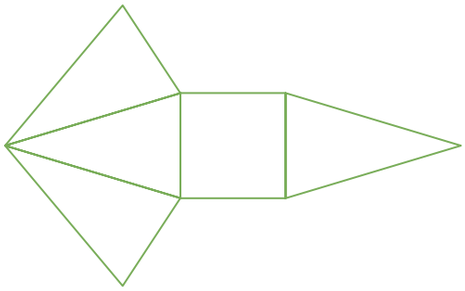
d)



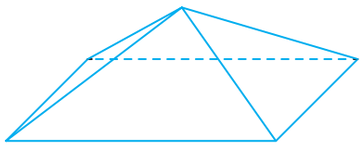


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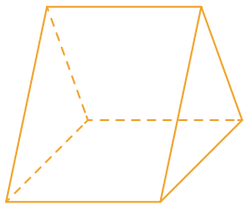
**6** Quyida fazoviy jism yoyilmasi berilgan.



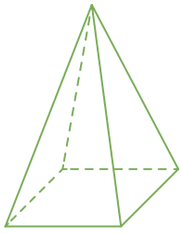
Yuqoridagi yoyilma qaysi fazoviy jismga tegishli?
To‘g‘ri javobning ostiga belgi ( ✓ ) qo‘ying.



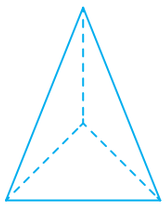
☐



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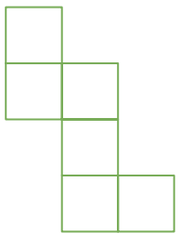


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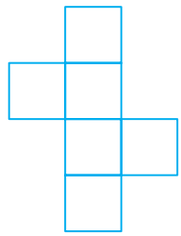
**7** Quyidagi fazoviy jism _____.



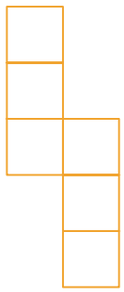
Yuqoridagi fazoviy jismning yoyilmalarini belgi ( ✓ ) bilan belgilang.



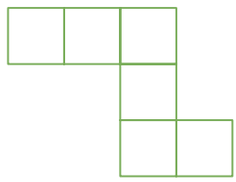
A ☐



B ☐



C ☐

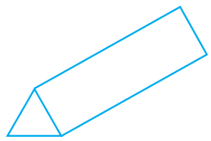


D ☐

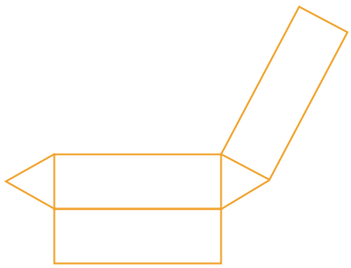


87 MATEMATICS WORKBOOK G6 P2 UZB 220x290 136PG (1) (1).indd 105 26/11/24 10:49

**8** Quyidagi fazoviy jism _____.



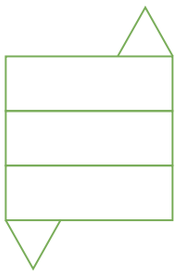
Yuqoridagi fazoviy jismning yoyilmalarini belgi ( ✓ ) bilan belgilang.



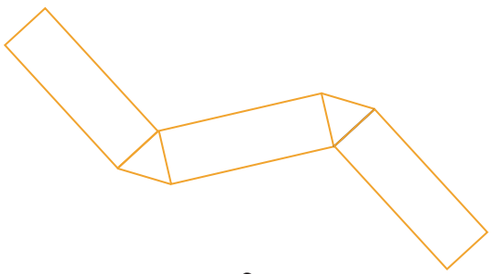
P ☐



Q ☐



R ☐



S ☐



87 MATEMATICS WORKBOOK G6 P2 UZB 220x290 136PG (1) (1).indd 106 26/11/24 10:49

**Ism:** **Sinf:** **Sana:**

# Bilimingizni tekshiring (yillik)

## 1-imtihon namunasi

### A bo‘lim. Muqobil javobli testlar

**To‘g‘ri javob raqamini qavs ichidagi bo‘sh joyga yozing.**

**1** 1 millionda nechta ming bor?

A) 100 ta
B) 1000 ta
C) 10 000 ta
D) 100 000 ta ( )

**2** Film soat 23:35 da boshlanib, 01:20 da tugadi. Film qancha vaqt davom etdi?

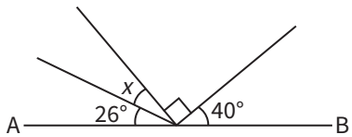
A) 2 h 45 min
B) 2 h 15 min
C) 1 h 45 min
D) 1 h 15 min ( )

**3** $1\frac{5}{6}$ da nechta $\frac{1}{6}$ bor?

A) 5 ta
B) 6 ta
C) 11 ta
D) 15 ta ( )

**4** Quyidagi rasmda AB – to‘g‘ri chiziq. $\angle x$ ni toping.

A) 24°
B) 50°
C) 64°
D) 66° ( )



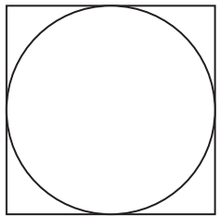



87 MATEMATICS WORKBOOK G6 P2 UZB 220x290 136PG (1) (1).indd 107 26/11/24 10:49

**Ism:** **Sinf:** **Sana:**

**5** Quyidagi shakl kvadrat va aylanadan iborat. Kvadratning tomoni 12 cm. Aylana uzunligini $\pi$ orqali ifodalang.

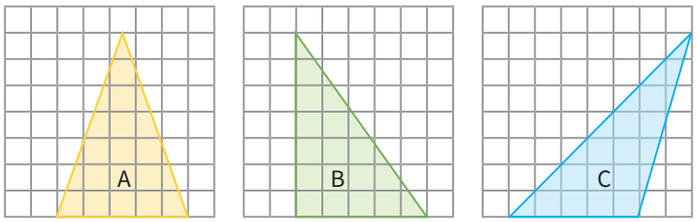
A) $144\pi$ cm
B) $36\pi$ cm
C) $12\pi$ cm
D) $6\pi$ cm



( )

**6** Quyidagi uchburchaklardan qaysilarining yuzi teng?

A) A va B
B) A va C
C) B va C
D) A, B va C




( )

**7** $17 - (2 \times 4) + 12 \div 3$ ifodaning qiymatini toping.

A) 64
B) 24
C) 13
D) 7

( )

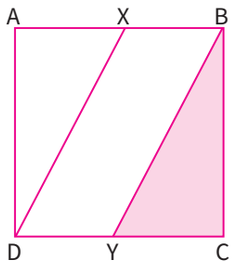
**8** Salima *n* yoshda. Tohirning yoshi Salimaning yoshidan 3 marta katta bo‘lib, Jasurdan 4 yoshga kichik. Jasur 2 yil oldin necha yoshda bo‘lgan?

A) $3n + 2$
B) $3n - 2$
C) $3n + 6$
D) $3n - 6$

( )

**9** ABCD – kvadrat. AX = XB va DY = YC. Kvadratning qancha qismi bo‘yalgan?

A) $\frac{3}{4}$
B) $\frac{2}{3}$
C) $\frac{1}{3}$
D) $\frac{1}{4}$



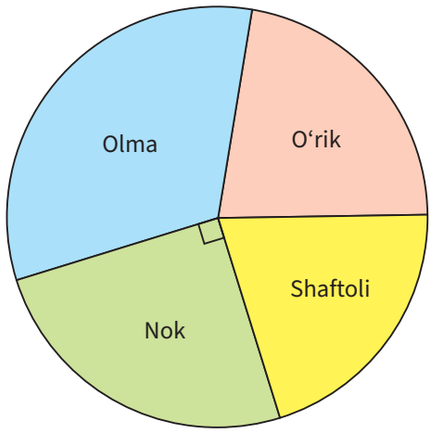

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87 MATEMATICS WORKBOOK G6 P2 UZB 220x290 136PG (1) (1).indd 108 26/11/24 10:49

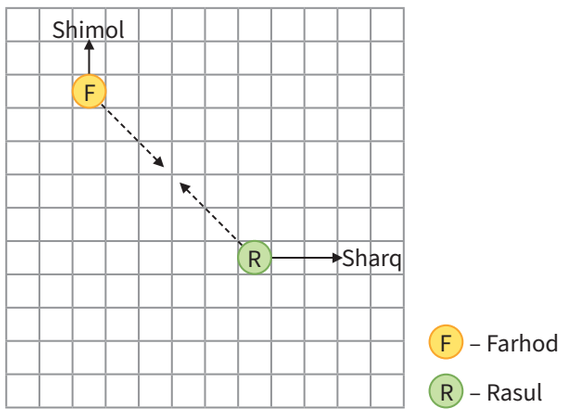
**10** Quyidagi doiraviy diagrammada do‘konda sotiladigan turli xil mevalar haqida ma’lumot ifodalangan. Ularning 75 foizi qaysi turdagi mevalarga to‘g‘ri keladi?

A) Olma, nok va shaftoli
B) O‘rik, shaftoli va nok
C) Shaftoli, olma va nok
D) Olma, shaftoli va o‘rik




(  )

**11** Farhod shimolga, Rasul esa sharqqa yuzlanib turibdi. Farhod va Rasul bir-birlariga yuzlanishi uchun soat mili yo‘nalishida burilishdi. Bolalarning har biri necha gradusga burilgan?




A) Farhod 135° ga, Rasul 135° ga
B) Farhod 135° ga, Rasul 225° ga
C) Farhod 225° ga, Rasul 135° ga
D) Farhod 225° ga, Rasul 225° ga

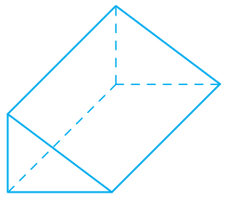
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87 MATEMATICS WORKBOOK G6 P2 UZB 220x290 136PG (1) (1).indd 109 26/11/24 10:49

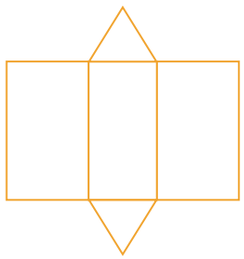
**Ism:** **Sinf:** **Sana:**

**12** Ushbu rasmda prizma tasvirlangan.

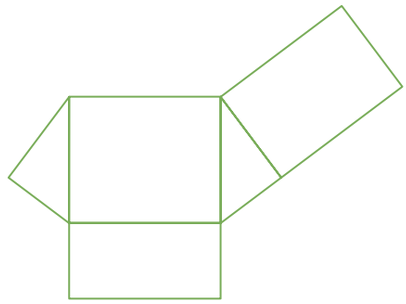


Quyidagilardan qaysi biri prizmaning yoyilmasi?

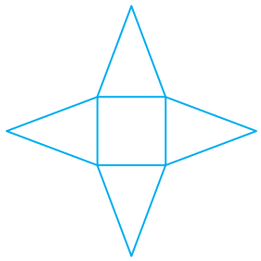
A)



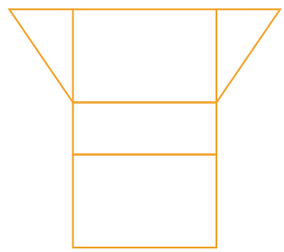
B)



C)



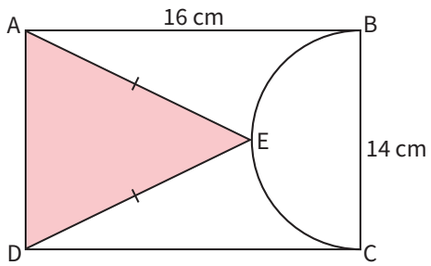
D)



( )

**13** Quyidagi rasmda ABCD – to‘g‘ri to‘rtburchak. AED esa teng yonli uchburchak, AE = DE, BEC – yarim aylana. AED uchburchak yuzini toping.

A) 224 $cm^2$
B) 112 $cm^2$
C) 72 $cm^2$
D) 63 $cm^2$




( )



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**14** Komila opaning do‘konidagi 40% pechenye shokoladli bo‘lib, qolganlari oddiy pechenyelar. U juma kuni do‘kondagi barcha shokoladli pechenyelarni va oddiy pechenyelarning 25 foizini sotdi. Juma kuni pechenyelarning necha foizi sotilgan?

A) 10%
B) 15%
C) 55%
D) 65% ( )

**15** Kuboid shaklidagi bo‘sh idishga soat 9:00 dan boshlab jo‘mrakdan suv oqib tusha boshladi. Soat 11:00 da idishning $\frac{1}{2}$ qismi to‘ldi. Qachon idishning $\frac{5}{6}$ qismi to‘ladi?

A) 11:40 da
B) 11:50 da
C) 12:20 da
D) 12:40 da ( )

**B bo‘lim. Qisqa javobli topshiriqlar**

**Javoblaringizni ko‘rsatilgan joylarga yozing.**

**16** 8,05 ni qisqarmas aralash kasr shaklida ifodalang.

Javob: _____

**17** Bitta ruchka 2500 so‘m. Behruz 3 ta shunday ruchka uchun 20 000 so‘m berdi. U qancha qaytim oladi?

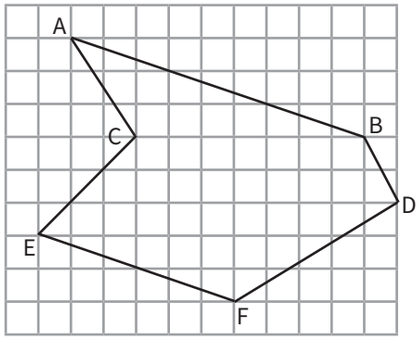
Javob: _____



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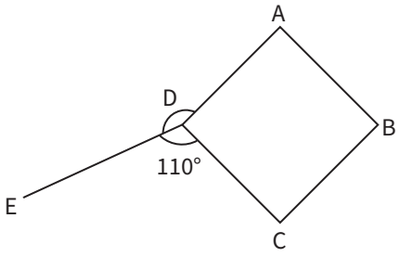
**Ism:** **Sinf:** **Sana:**

**18** Ikkita parallel kesmani aniqlang.



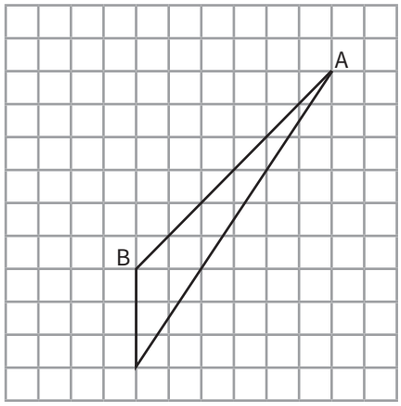

Javob: _____ va _____

**19** Quyidagi rasmda ABCD – kvadrat. ∠EDC = 110°. ∠ADE ni toping.




Javob: _____ °

**20** AB ga nisbatan simmetrik bo‘lgan shaklning yarmi tasvirlangan. Qolgan qismini hosil qilish uchun ikkita kesma chizing.






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**21** $\frac{8}{9}$ qismi va $\frac{2}{3}$ qismi orasidagi farq 14 ga teng bo‘lgan sonni toping.

Javob: _____

**22** Bu yili 720 nafar maktab o‘quvchisi oromgohga yo‘l oldi. Bu o‘tgan yilgidan 80 nafarga kam. Bu yil oromgohga borgan o‘quvchilar soni o‘tgan yili borganlar sonidan necha foizga kam?

Javob: _____ %



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**Ism:** **Sinf:** **Sana:**

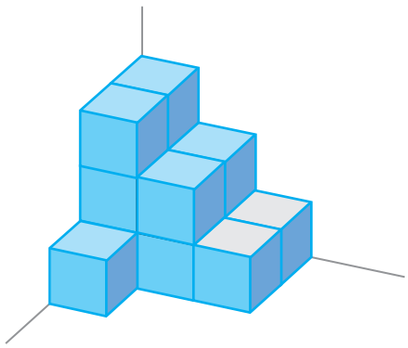
**23** 3 nafar o‘g‘il bola kompyuterda ikkita o‘yin o‘ynadi. Quyidagi jadvalda ular to‘plagan ochkolar berilgan.

| Ismi | 1-o‘yin | 2-o‘yin |
|---|---|---|
| Ahmad | 60 | 80 |
| Botir | 60 | 72 |
| Hakim | 80 | 100 |

2-o‘yinda kimning balli 20% ga oshgan?

Javob: _____

**24** Rasmda fazoviy jismni hosil qilish uchun birlashtirilgan birlik kublar tasvirlangan.



Kub hosil qilish uchun birlik kublardan eng kamida yana nechta kerak?

Javob: _____

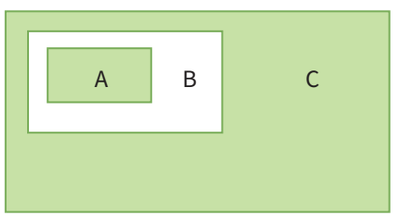


87 MATEMATICS WORKBOOK G6 P2 UZB 220x290 136PG (1) (1).indd 114 26/11/24 10:49

**25** Bahodir har biri $x$ so‘mdan 4 ta qalam va 9000 so‘mga qalamdon sotib oldi. Ushbu xariddan keyin unda $3x$ so‘m pul qoldi. Bahodirda dastlab qancha pul bo‘lganini $x$ orqali ifodalang.

Javob: _____

**26** Rasmdagi A, B va C to‘g‘ri to‘rtburchaklarning yuzi mos ravishda 1 : 3 : 10 nisbatda. Rasmning qancha qismi bo‘yalgan? Javobni qisqarmas kasr shaklida ifodalang.



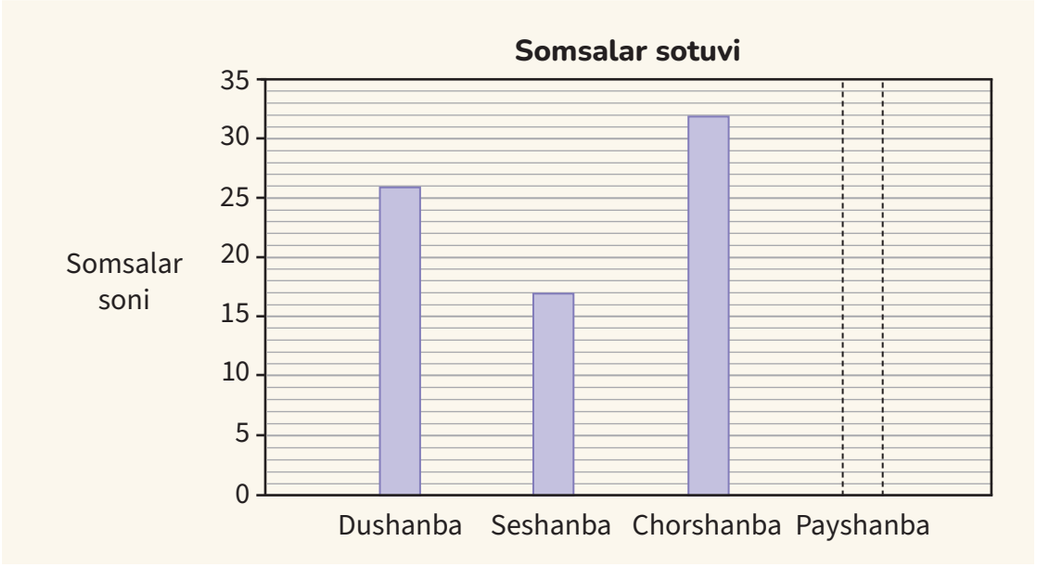

Javob: _____



87 MATEMATICS WORKBOOK G6 P2 UZB 220x290 136PG (1) (1).indd 115 26/11/24 10:49

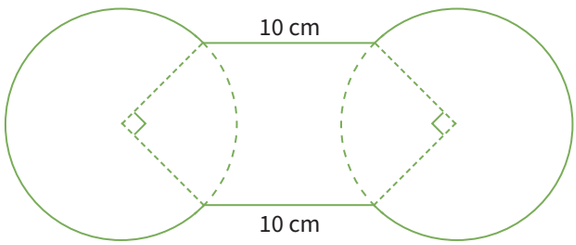
**Ism:** **Sinf:** **Sana:**

**27** Quyidagi diagrammada dushanbadan chorshanbagacha sotilgan somsalar soni ko‘rsatilgan. Payshanba kuni sotilgan somsalar soni esa ko‘rsatilmagan. 4 kun davomida sotilgan somsalarning o‘rtacha soni 24 ta. Payshanba kuni qancha somsa sotilgan?




Javob: _____

**28** Quyidagi shakl uzunligi 10 cm dan bo‘lgan ikkita kesma va radiuslari 7 cm dan bo‘lgan aylanalarning $\frac{3}{4}$ qismini birlashtirishdan hosil bo‘lgan. Bu shaklning perimetrini toping ($\pi = \frac{22}{7}$ deb oling).

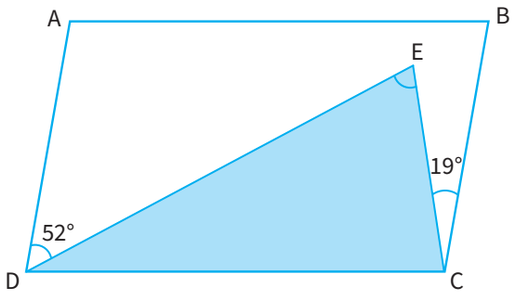



Javob: _____



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**29** Quyidagi rasmda ABCD – parallelogramm, CDE – uchburchak. ∠EDA = 52° va ∠BCE = 19°. ∠DEC ni toping.




Javob: _____

**30** Temur akaning yoshi 9 yoshli o‘g‘lining yoshidan 4 baravar katta. Necha yildan keyin Temur akaning yoshi o‘g‘lining yoshidan ikki baravar katta bo‘ladi?

Javob: _____



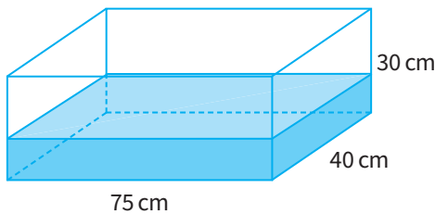
87 MATEMATICS WORKBOOK G6 P2 UZB 220x290 136PG (1) (1).indd 117 26/11/24 10:49

**Ism:** **Sinf:** **Sana:**

## 2-imtihon namunasi

Quyidagi topshiriqlarning batafsil yechimini bo‘sh qoldirilgan joyga, javobini esa ko‘rsatilgan joyga yozing.

**1** O‘lchamlari 75 cm, 40 cm va 30 cm bo‘lgan kuboid shaklidagi idishning $\frac{2}{5}$ qismida suv bor. Idishni to‘ldirish uchun yana necha $\ell$ suv kerak?




Javob: _____ $\ell$

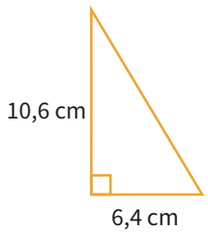
**2** Rustam 6 km/h tezlikda $\frac{1}{4}$ soat yugurib X qishloqdan Y qishloqqa, 8 km/h tezlikda $\frac{1}{4}$ soat yugurib Y qishloqdan Z qishloqqa yetib bordi. Rustam X qishloqdan Z qishloqqa qancha yo‘l bosgan?

Javob: _____ km



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**3** Quyidagi rasmda to‘g‘ri burchakli uchburchak tasvirlangan.




a) Uchburchakning yuzini toping.

b) O‘lchamlari 32 cm va 22 cm bo‘lgan to‘g‘ri to‘rtburchak shaklidagi qog‘ozdan eng ko‘pi bilan nechta shunday to‘g‘ri burchakli uchburchaklarni qirqib olish mumkin?

Javob: a) _____ $cm^2$

b) _____



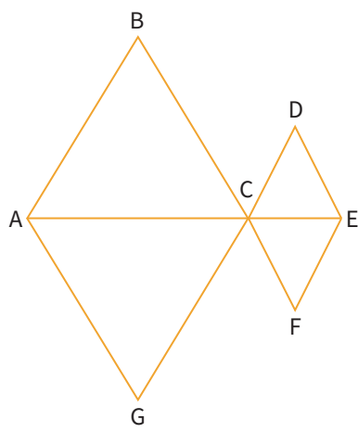
87 MATEMATICS WORKBOOK G6 P2 UZB 220x290 136PG (1) (1).indd 119 26/11/24 10:49

**Ism:** **Sinf:** **Sana:**

**4** Billur vazaning narxi 15 foizga oshdi. Shundan keyin uning narxiga 135 000 so‘m qo‘shilgan bo‘lsa, vazaning narxi oshganidan so‘ng qancha bo‘ldi?

Javob: _____

**5** 150 cm uzunlikdagi sim quyida ko‘rsatilganidek 4 ta teng tomonli uchburchak hosil qilish uchun egildi. ABC va ACG uchburchaklarning yuzlari teng. CDE va CEF uchburchaklarning yuzlari teng. ABCFE chiziqning uzunligini toping.

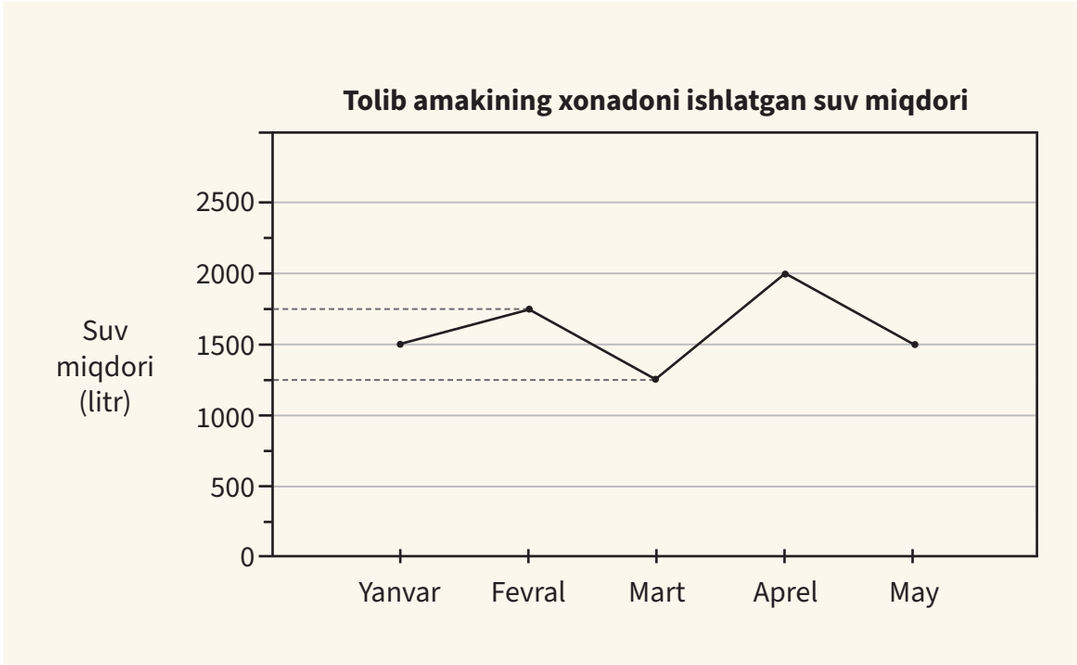



Javob: _____ cm



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**6** Chiziqli diagrammada yanvar–may oylarida (5 oy) Tolib amakining xonadoni ishlatgan suv miqdori tasvirlangan.




a) Tolib amakining xonadoni qaysi oyda eng kam suv ishlatgan?

b) Tolib amakining xonadoni iyun oyida fevral oyiga qaraganda ikki baravar ko‘p suv ishlatgan. Iyun oyida necha litr suv ishlatilgan?

Javob: a) _____

b) _____ ℓ



87 MATEMATICS WORKBOOK G6 P2 UZB 220x290 136PG (1) (1).indd 121 26/11/24 10:49

**Ism:** **Sinf:** **Sana:**

**7** Dastlab telefon narxi 20% ga oshirildi. Keyin esa bu telefonlar uchun 20% chegirma ham belgilandi.

Keltirilgan ma’lumotlarga asoslanib to‘g‘ri tasdiqlarni belgilang.

a) Oxir-oqibat mobil telefonning narxi o‘zgarishsiz qoldi.

( )

b) Oxir-oqibat mobil telefonning narxi qimmatlashdi.

( )

c) Oxir-oqibat mobil telefonning narxi arzonlashdi.

( )

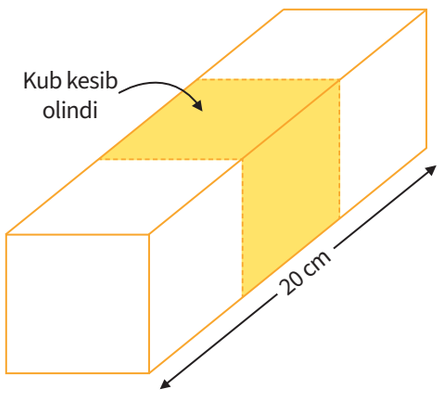
d) Oxir-oqibat mobil telefonning narxi dastlabki narxi bilan bir xil bo‘lib qoldi.

( )

e) Oxir-oqibat mobil telefonning narxi dastlabki narxining 96% ini tashkil qildi.

( )

**8** Uzunligi 20 cm bo‘lgan kuboid shaklidagi yog‘ochning 2 ta yog‘i kvadratdan iborat. Bu kuboiddan rasmdagidek qilib, hajmi 729 $cm^3$ bo‘lgan kub kesib olingan. Qolgan ikkita yog‘och bo‘lagining hajmlari yig‘indisini toping.



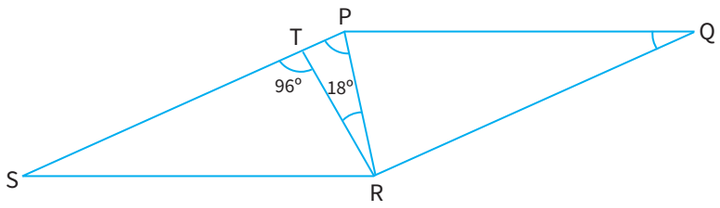

Javob: _____ $cm^3$



87 MATEMATICS WORKBOOK G6 P2 UZB 220x290 136PG (1) (1).indd 122 26/11/24 10:49

**9** Quyidagi rasmda PQRS – romb. ∠STR = 96° va ∠PRT = 18°.

a) ∠SPR ni toping.
b) ∠PQR ni toping.




Javob: a) _____

b) _____

**10** Quyidagi jadvalda internet kafeda internetdan foydalanish narxlari ko‘rsatilgan.

| **Foydalanish vaqti** | **Narxi** |
|---|---|
| Birinchi soat | 2 500 so‘m |
| Har bir qo‘shimcha $\frac{1}{2}$ soat | 1 350 so‘m |

Jasur internetdan foydalanish uchun jami 6 550 so‘m to‘ladi. U qancha vaqt internetdan foydalangan?

Javob: _____ h



87 MATEMATICS WORKBOOK G6 P2 UZB 220x290 136PG (1) (1).indd 123 26/11/24 10:49

**Ism:** **Sinf:** **Sana:**

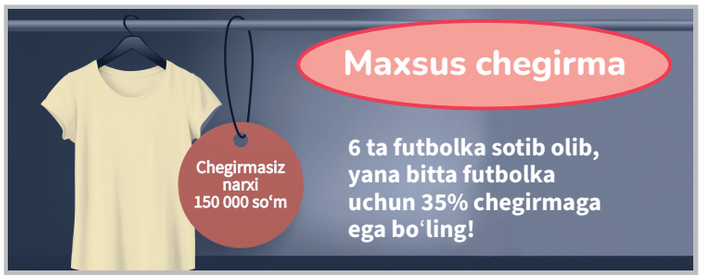
**11** Idishdagi $\frac{5}{8}\ \ell$ suv 6 ta stakanni to‘ldirishi mumkin. Jamshid idishdagi suvdan 2 ta stakanga to‘ldirib quydi. Idishda suvning qancha qismi qoldi?

Javob: _____



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**12** Do‘konda futbolkalar quyidagi maxsus chegirma asosida sotilishi e’lon qilindi.




Nodir aka 15 ta futbolka sotib oldi. U jami qancha pul to‘lagan?

Javob: _____



87 MATEMATICS WORKBOOK G6 P2 UZB 220x290 136PG (1) (1).indd 125 26/11/24 10:49

**Ism:** **Sinf:** **Sana:**

**13** Ali ota har oy bir xil pensiya oladi. U aprel oyida pensiyasining 1 200 000 so‘mini sarflab, qolganini tejab qoldi. May oyida esa aprel oyiga qaraganda 20% kamroq pul sarfladi va 50% ko‘proq pul tejab qoldi. Ali otaning pensiyasi qancha?

Javob: _____



87 MATEMATICS WORKBOOK G6 P2 UZB 220x290 136PG (1) (1).indd 126 26/11/24 10:49

**14** Quyida 1 dan 100 gacha bo‘lgan natural sonlar jadvali ko‘rsatilgan.

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 11 | 21 | 31 | 41 | 51 | 61 | 71 | 81 | 91 |
| 2 | 12 | 22 | 32 | 42 | 52 | 62 | 72 | 82 | 92 |
| 3 | 13 | 23 | 33 | 43 | 53 | 63 | 73 | 83 | 93 |
| 4 | 14 | 24 | 34 | 44 | 54 | 64 | 74 | 84 | 94 |
| 5 | 15 | 25 | 35 | 45 | 55 | 65 | 75 | 85 | 95 |
| 6 | 16 | 26 | 36 | 46 | 56 | 66 | 76 | 86 | 96 |
| 7 | 17 | 27 | 37 | 47 | 57 | 67 | 77 | 87 | 97 |
| 8 | 18 | 28 | 38 | 48 | 58 | 68 | 78 | 88 | 98 |
| 9 | 19 | 29 | 39 | 49 | 59 | 69 | 79 | 89 | 99 |
| 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |

a) Jadvaldan “Z” shaklida 5 ta natural son tanlab olingan. Ushbu natural sonlarning o‘rtacha qiymati nechaga teng?

| | | |
|---|---|---|
| 52 | 62 | |
| | 63 | |
| | 64 | 74 |

b) Jadvaldan “Z” shaklida yig‘indisi 140 ga teng bo‘lgan 5 ta natural son tanlab olingan. Ushbu natural sonlarning eng kichigi nechaga teng?

| | | |
|---|---|---|
| | | |
| | | |
| | | |

Javob: a) _____

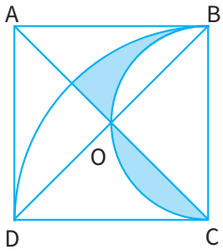
b) _____



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**Ism:** **Sinf:** **Sana:**

**15** Rasmdagi ABCD kvadratning yuzi 144 $cm^2$, CDB – chorak doira, COB – yarim doira. Bo‘yalgan sohaning yuzini toping ($\pi = 3{,}14$ deb oling).




Javob: _____ $cm^2$



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**16** Aziza, Bahora va Lazizada bir nechta stiker bor. Azizadagi stikerlar sonining Bahora va Lazizadagi stikerlar soniga nisbati 1 : 4. Bahoradagi stikerlar sonining Aziza va Lazizadagi stikerlar soniga nisbati esa 2 : 5. Lazizaning stikerlari Bahoradagidan 56 taga ko‘p. Uchala qizda jami nechta stiker bor?

Javob: _____



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