

# Matematika

IV qism

3



I. V. Repyova

# Matematika

## 3-sinf

### IV qism

Umumiy o'rta ta'lim maktablari uchun darslik

Ta'limni rivojlantirish markazi huzuridagi Ilmiy-metodik kengash  
tomonidan tavsiya etilgan



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### Shartli belgilar:



**Og'zaki  
topshiriq**



**Daftarda  
ishlang**



**Mantiqiy  
topshiriq**



**Juft bo'lib  
ishlang**



**Uyga  
vazifa**

**Eslatma:** O'lchov birliklaridan O'zbekiston Respublikasi Vazirlar Mahkamasining "O'zbekiston Respublikasida kattalik birliklarini qo'llash to'g'risida"gi 10.01.2018-yil 21-sonli qaroriga muvofiq foydalanildi.

### **Salom, aziz bolajonlar!**

To'rtinchi qismda siz "formula" tushunchasi bilan tanishasiz va eng ko'p ishlatiladigan formulalarni keltirib chiqarasiz. Siz harakat, ish va qiymat bilan bog'liq masalalarni yechishni o'rganasiz va ayni bir formula yordamida ko'plab turli masalalarni yechish mumkinligini tushunasiz. Matematikaning muhim sohalaridan biri – statistika haqida bilib olasiz va o'zingizni tahlilchi sifatida sinab ko'rasiz. Siz matematika olimlarga o'z tadqiqotlarini o'tkazishlarida va insonlarning sog'lom turmush tarzini to'g'ri shakllantirishlarida qanday yordam berishini bilib olasiz.



## 111. Muntazam shakllarning perimetri

**Yondosh mavzu:**  
landshaft dizayni.

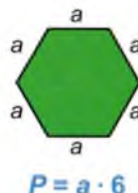
Formula, perimetr,  
teng tomonli ko'pburchak.



1. Qanday gulpushti muntazam ko'pburchak shakliga ega? Har bir gulpushtining perimetrini topa olasizmi?



**Muntazam ko'pburchak** – bu barcha tomonlari teng bo'lgan ko'pburchak. Ko'pburchakning perimetri uning barcha tomonlari uzunliklari yig'indisiga teng. Muntazam ko'pburchakning perimetrini qisqacha, quyidagicha yozish mumkin:



$$P = a + a + a + a + a + a = a \cdot 6$$

2. Gulpushti muntazam sakkizburchak shakliga ega. Uning bir tomoni uzunligi 45 cm. Shu gulpushtining perimetrini toping.

3. Akmal simdan ko'pburchak modellarini yasamoqda. Har bir ko'pburchak tomonlarining uzunligi 27 cm. Uchburchak shaklidagi model uchun qancha sim kerak? To'rtburchakli model uchun-chi? Beshburchakli model uchun-chi?  $n$  burchakli model uchun-chi?

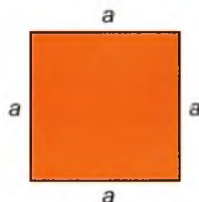
## 111. Muntazam shakllarning perimetri

Bir kattalikning boshqa kattalikka bog'liqligini ko'rsatuvchi matematik yozuv **formula** deb ataladi.

Kvadrat perimetri formulasi:



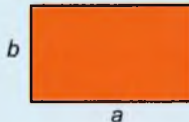
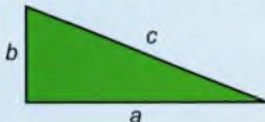
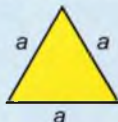
$$P = a \cdot 4$$



4. Kvadrat perimetri formulasi yordamida toping:

- kvadratning tomoni 12 cm bo'lsa, uning perimetrini;
- kvadratning perimetri 688 cm bo'lsa, uning tomonini.

5. Ushbu shakllar perimetrlari uchun formulalar yozing.



6. Tomoni 7 cm bo'lgan muntazam uchburchakning perimetrini toping. Agar uchburchakning tomoni ikki marta ortsa, uning perimetri necha marta ortadi?

7. Akmal yog'och reykalardan rasmdagidek fotoramka yelimplamoqchi. Katta ramkaning tomoni 35 cm, kichik ramkaning tomoni esa undan 80 mm qisqa. U umumiy uzunligi qanday bo'lgan reyka sotib olishi kerak?



## 111. Muntazam shakllarning perimetri



8. Landshaft dizayneri sayilgoh yo'lini g'ayrioddiy shakldagi arklar bilan bezatadi. Har bir ark bir xil uzunlikdagi beshta to'sindan iborat. Bitta to'sinning uzunligi 1 m 40 cm. Shunday beshta ark uchun necha metr to'sin kerak bo'ladi?



9. Sxemalar bo'yicha ifodalar tuzing va ularning qiymatlarini hisoblang.

$$\begin{array}{c} 326 \cdot 7 - 432 - 96 \\ \swarrow \quad \searrow \\ \boxed{\phantom{000}} : \boxed{14} \\ \swarrow \quad \searrow \\ \boxed{\phantom{000}} \end{array}$$

$$\begin{array}{c} 8000 - 2700 : 6 \\ \swarrow \quad \searrow \\ \boxed{\phantom{000}} : \boxed{50} \\ \swarrow \quad \searrow \\ \boxed{\phantom{000}} \end{array}$$



10. Hisoblang. Bu yerda qanday so'z yashiringan? .

$$457200 : 9 + 6 \cdot (93562 - 12229) : 7 + 13764 + 395661 - 524139$$

**S** 69714

**Z** 134278

**A** 120514

**O** 529939

**M** 81333

**Y** 487998

**A** 50800

**R** 5800



11. Bog' maydoni to'g'ri to'rtburchak shaklida bo'lib, uning bo'yi enidan 2m katta, perimetri esa 96m. Ushbu maydonning yuzini toping.



12. Tomoni 3cm 5mm bo'lgan kvadratning perimetrini toping.



13. Hisoblang. Shaharliklar dam oladigan joy qanday ataladi?

$$56700 : 90 - 3 \cdot (9043 - 7636) : 7 + 1382 - 968$$

**O** 1409

**O** 603

**I** 630

**H** 1407

**Y** 4221

**N** 441

**B** 27

**T** 63

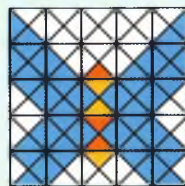
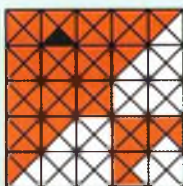
## 112. To'g'ri to'rtburchak va kvadratning yuzi

**Yondosh mavzu:**  
qurilish.

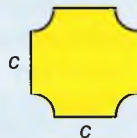
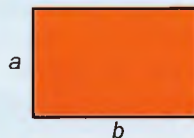
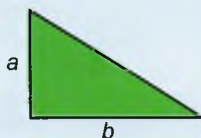
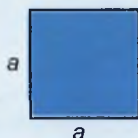
Formula, yuz, perimetr.



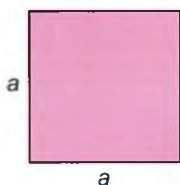
1. Yuzning ta'rifini eslang. Qaysi rasmning yuzi katta?



2. Qaysi shakllarning yuzini hisoblay olasiz?

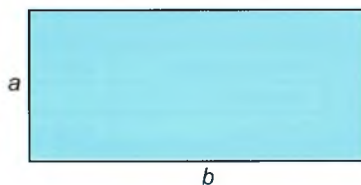


**Kvadrat**  
yuzining formulasi



$$S = a \cdot a$$

**To'g'ri to'rtburchak**  
yuzining formulasi



$$S = a \cdot b$$

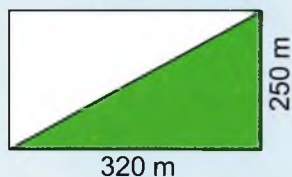
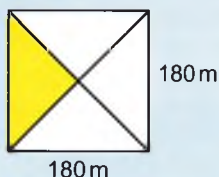




## 112. To'g'ri to'rtburchak va kvadratning yuzi



3. Bo'yalgan maydonning yuzini toping.

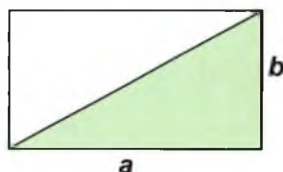


To'g'ri burchakli uchburchakning yuzi mos to'g'ri to'rtburchak yuzining yarmiga teng.

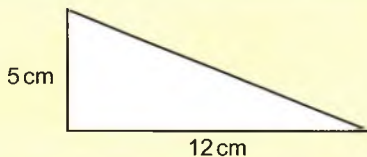
To'g'ri burchakli uchburchakning yuzini topish formulasi:



$$S = a \cdot b : 2$$



4. Daftaringizga to'g'ri burchakli uchburchak chizing. Uning noma'lum tomoni uzunligini o'lchang. Uning perimetri va yuzini toping.



5. Xonadon mehmonxona, yotoqxona, koridor, yuvinish xonasi, oshxona va balkondan iborat. Quyidagi jadvaldan foydalanib, butun xonadonning yuzini toping.

Mehmonxona	24 m <sup>2</sup> , yotoqxona yuzidan 6 m <sup>2</sup> katta
Yotoqxona	
Oshxona	mehmonxona yuzining yarmiga teng
Koridor	oshxona yuzining uchdan biriga teng
Yuvinish xonasi	7 m <sup>2</sup>
Balkon	koridor yuzidan 2 marta katta

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***3-sinf matematika IV qism kitobini to'liq holda olish uchun telegramdan yozing.***

**Telegram kanalimiz:**

**[@Maktablar\\_uchun\\_hujjatlar](https://t.me/@Maktablar_uchun_hujjatlar)**



**DIQQAT!!!**

Bu hujjatni hech kimga tarqatmaslik sharti bilan olishingiz mumkin.

Sizga bu **OMONAT** qilib beriladi.

To'liq holda olganingizdan so'ng:

Faqat o'zingiz uchun foydalaning.

Hech kimga bermang hattoki eng yaqin insoningizga ham.

Internet veb-saytlarga joylamang.

Telegram orqali kanal va gruppalarga tarqatmang.

**OMONATGA HIYONAT**

**QILMANG.**