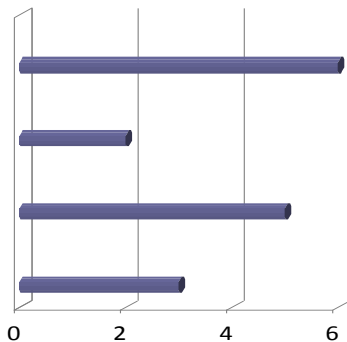
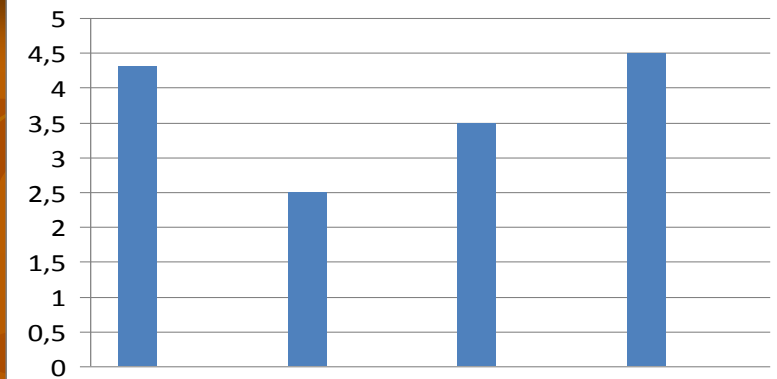




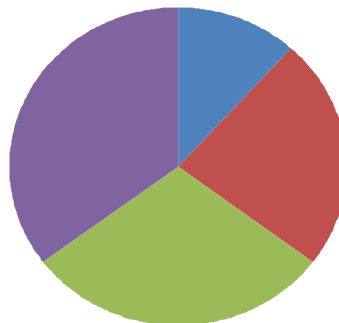
$$b \backslash q * 100$$



PROSENTLAR

$$1\% = 1 \backslash 100 = 0.01$$

$$1\text{‰} = 1 \backslash 1000 = 0.001$$



- Kb. 1
- Kb. 2
- Kb. 3
- Kb. 4

$$a \backslash 100 * b$$

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- AMALIY-MATEMATIKA VA INFORMATIKA
- YO'NALISHI 10.306-GURUH TALABASI
- **OBIDOVA SADOQATNING**
- PED O'LGHASH TEHNOLOGIYALARI
- FANIDAN

Referati

■ QABUL QILUVCHI _____



REJA:

1

- Prosent va promilleyi haqida tushuncha

2

- Berilgan sonni berilgan prosentini topish

3

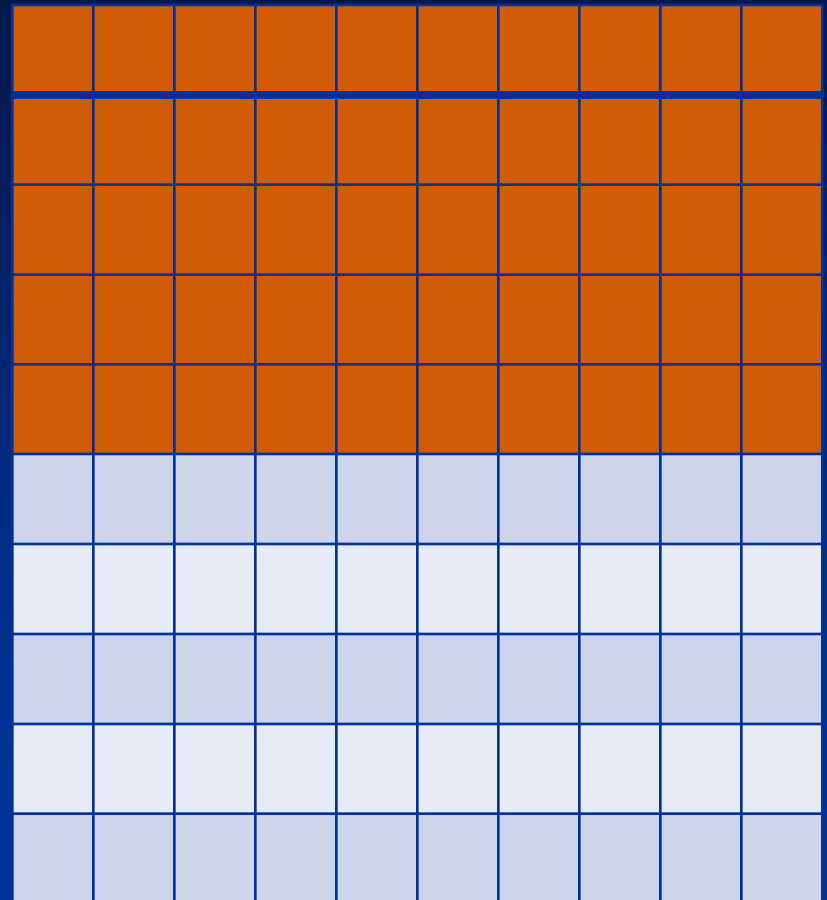
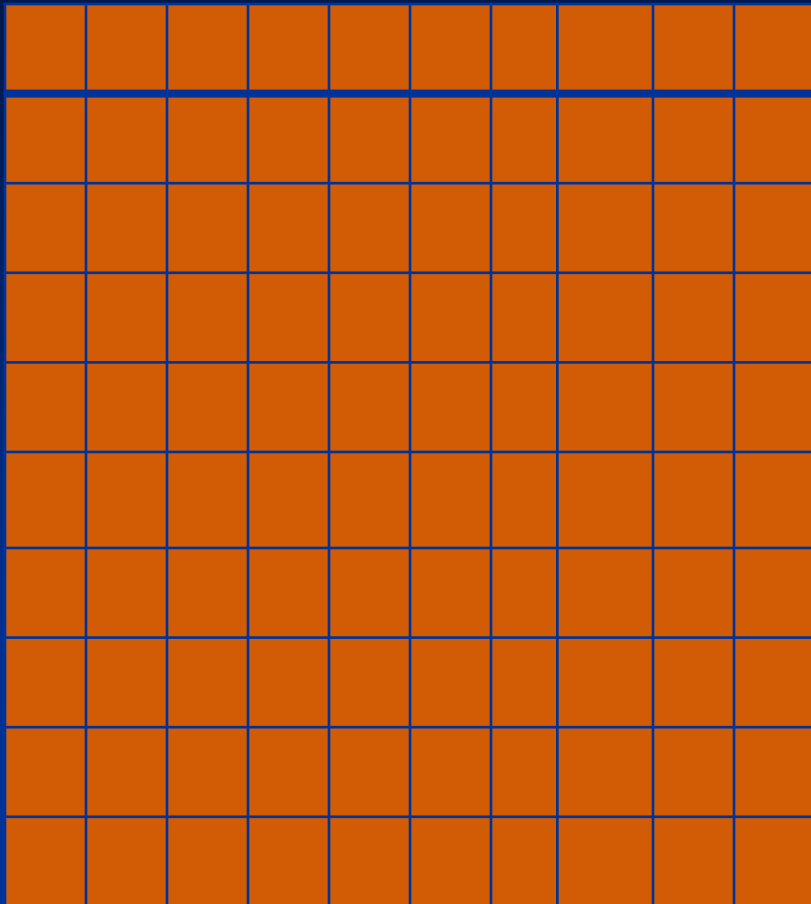
- Berilgan ptosentiga ko`ra sonni o`zini topish

4

- Ikki sonning prosent nisbati

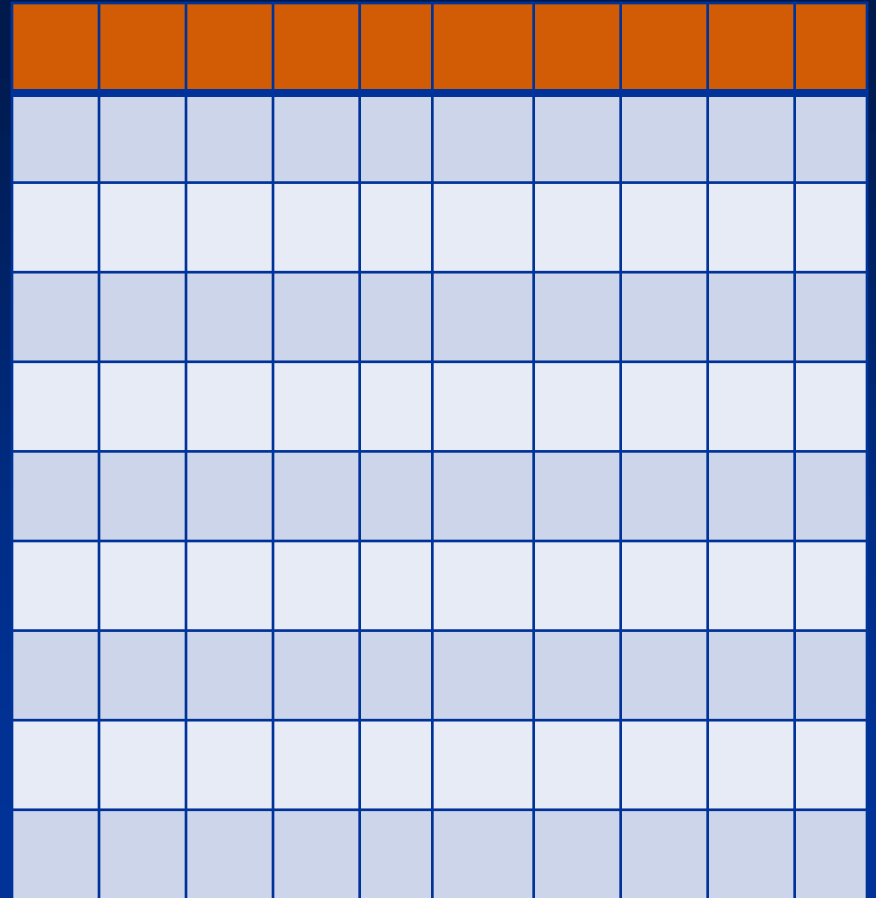
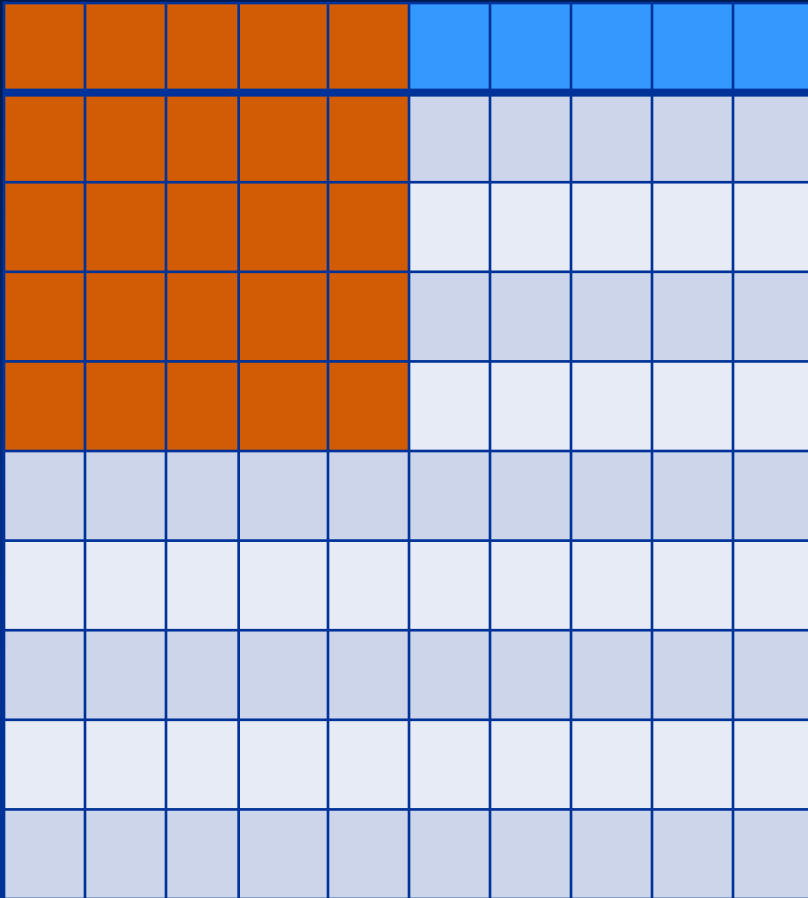
5

- Diagrammalar



100 → 100%

50 → 50%



25 → 25%

10 → 10%

- Har qanday sonning yuzdan bir qismi shu sonning bir prosentini deyiladi.
- Sonning bir prosentini topish uchun uni 100 ga bo`lish kifoya.
- “Prosent” lotincha “pro centum” degan so`zdan olingan bo`lib, “yuzdan” degan ma`noni bildiradi.
- “Prosent” so`zi o`rniga ko`pincha “%” belgidan foydalaniladi.

$$1\% = 1 \div 100 = 0.01$$

- Prosentni o`nli kasr ko`rinishida ifodalash uchun prosent belgisi oldida turgan sonni 100 ga bo`lish kigoya.

Masalan: 1) $5\% = 5:100 = 5 \cdot 0.01 = 0.05$;

- 2) $50\% = 50:100 = 50 \cdot 0.01 = 0.5$;
- 3) $100\% = 100:100 = 100 \cdot 1.01 = 1$ '
- Sonni prosent ko`rinishida ifodalash uchun shu sonni 0.01 ga bo`lish va yoniga % belgisini yozish kerak.

- Promill tushunchasi.
- Har qanday sonning mingdan bir qismi
- Shu miqdorning promille deyiladi.

$$1‰ = 1 \div 1000 = 0.001$$

- Sonning $\frac{1}{1000}$ ga bo'lishi uchun uni 1000 ga ko'paytirish.
- Promill ‰ kabi belgilanadi.
- Demak $1\% = 0.01 = 10 \cdot 0.001 = 10 \cdot 1 ‰ = 10 ‰$
- “Promill” soʻzi lotincha “promilleyi” soʻzidan olingan boʻlib “mingga” degan maʼnoni bildiradi.

Berilgan sonni prosentini topish.

Berilgan sonning prosentini topish uchun bu sonni 100 ga bo`lib ,prosent soniga ko`paytirish kerak.

- Masala-1: a sonni b % ini toping.
- Y e c h i l i s h i. 1) a sonni 1 % i a:100 ga teng;
- 2)u holda a sonning b % i

$$a \div 100 \cdot b$$

Masala-2: Omonatchi bankka 36000 pul qo`ydi.
Bank bir
yilda omonatchiga qo`yilgan pulni 24% i
miqdorida foyda
to`laydi. Omonatchi bir yilda qancha foyda oladi.
Yechilishi. 1-usul. Masalada 36000 ning 24 % i
nechaga tengligini
topish so`raladi.
Masalani shartiga mos ravishda praporsiya tuzib
uni yechamiz.

$$\begin{array}{l} 3600 \text{ ——— } 100\% \\ X \text{ ——— } 24\% \end{array}$$

- 2) Berilgan sonni 24% iga mos kelgan o`nli kasrga , ya`ni 0.24 ga ko`paytiramiz:
- $36000 \cdot 0.24 = 360 \cdot 24 = 8640$

Berilgan prosentiga ko`ra sonning o`zini topish uchun,
shu sonni berilgan
Prosent soniga bo`lib, natijani 100ga ko`paytirish
kerak

- Masala-3. $q\%$ i b ga teng bo`lgan sonni toping.

Yechilishi: 1) b sonni 1 % ini topamiz: b ning
 $1\% i = b \backslash q;$

$$b \backslash q \cdot 100$$

2) endi sonning o`zini topish

- Ikki sonning prosent nisbati deb, shu sonlarning prosent bilan ifodalangan nisbatiga aytiladi.
- Ikki sonning prosent nisbati bir son ikkinchi sonning
- necha prosentini tashkil qilishini bildiradi.
- Ikki sonning prosent nisbatini topish uchun:
- **1-qadam:** birinchi sonni ikkinchi songa bo'lish;
- **2-qadam:** bo'linmani 100 ga ko'paytirish va natija yoniga prosent belgisi % ni qo'yish kerak.

- Masala-3. Sinfdagi 35 o`quvchini 21 tasi turli to`garaklarga qatnashadi. Sinfdagi o`quvchilarni necha pro senti to`garaklarda qatnashadi?
- Y e c h i l i s h i. Sinfdagi barcha o`quvchilar sonini
- 100% deb olamiz. To`garakda qatnashuvchi 21 o`quvchi esa $x\%$ iga mos keladi, deylik:

$$\begin{array}{l} 35 \text{ ——— } 100\% \\ 21 \text{ ——— } x\% \end{array}$$

- Bu munosabatda ushbu praporsiyaga

Diagramma 3 turga bo`linadi:

1

- Doiraviy diagramma

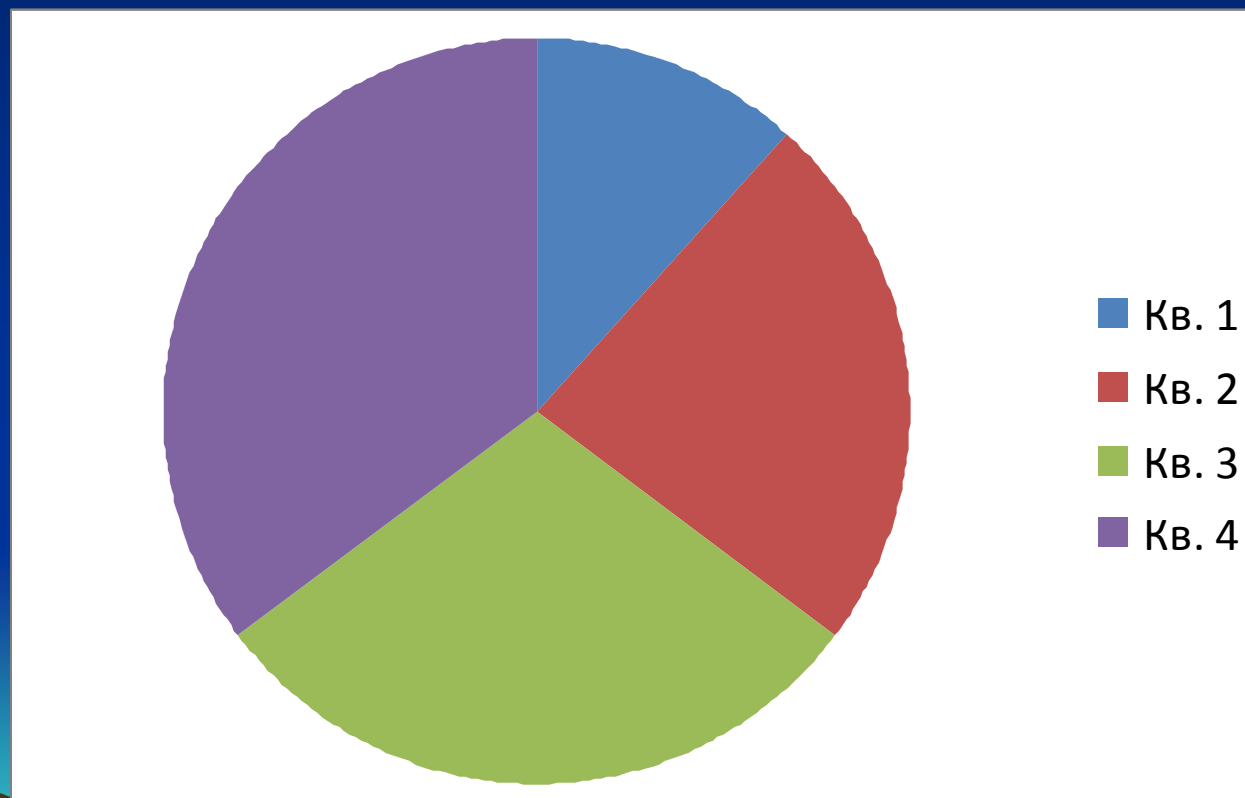
2

- Chiziqli diagramma

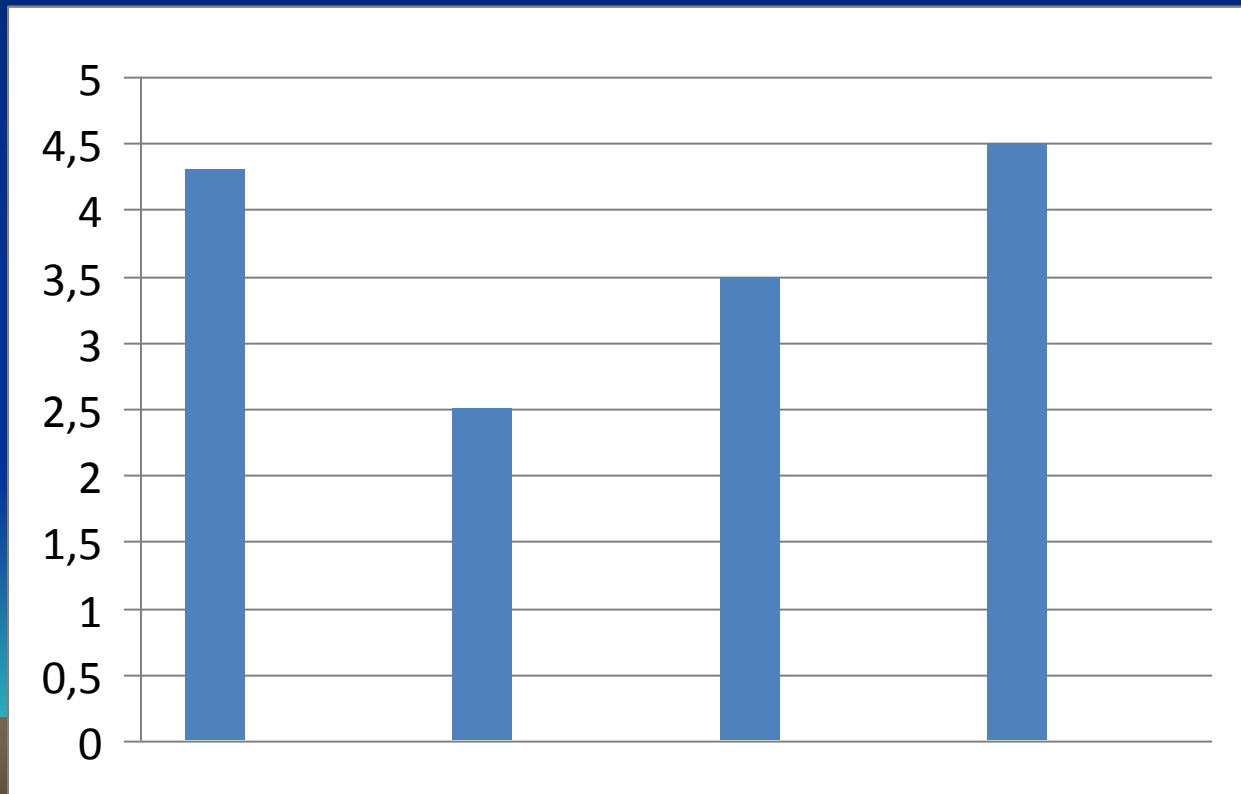
3

- Ustunli diagramma

Sinfdagi o`quvchilarni 40% i matematika to`garagiga 30% i ingliz tili 20 % i rus tili 10 % i ona tili to`garagiga qatnashadi. Sinfdagi o`quvchilarni to`garaklarga qatnashishini doiraviy digrammada tasvirlaymiz:



O`zbekiston maydonining 30 % i daryo 27 % i o`rmon 20 % i
Tekislik 23 % i adirdan iborat.
O`zbekiston maydonini ustunli digrammada tasvirlaymiz.



O`zbekiston aholisini 15% i qariyalar 20 % i yosh bolalar
30% i o`smirlar 45 % i o`rta yoshlilarni tashkil qiladi.
O`zbekiston aholisini chiziqlidiagdamda tasvirlaymiz.

