

K'OT'OK -IKA

1. 100 (balo) báborfetso beyiru s'een taawotsi dabonat k'awona (26 perediya)

k'os' jamwetsi :- daniruwats danhan bo'eeke okona

- bodabo lool bodet s'een taawotsi dabituno
- giit fideli detsts s'een taawotsatse ik fideii detsts s'een taawotsi k'awituno
- dabonat k'aw fiinots dagowotse beyiru jagewo galituno.
- dabonat k'awi problemiysh ariyo imetuno
- dabi wonawoneyi newo danetuno
- k'awi doyotsi dandek'e tuno
- jaando de'er Aatotsi fiinituno
- yotsi genz tatsi kaiyotsi galituno dan aayiyi k'ac'wetsi

Ariya

- abakesiya
- flesh kardiya
- dabijanda
- k'awi janda
- santima
- metra (genztatsi kac'a)
- Inda
- zzra

Daniyuruwo fiina

Haniyeshin daniruwats 20 yo bborfetso beyiru taawotsi dabonat k'awon terwerno. Hanatse tuwer ni daniyi k'ac'o de'erni lool boborfetso beyiru s'een taawotsi dabonat kawan shuuts anar silo geyituwe. Aani detsfeeto de'e

waf s'een taawotsi daba, gush geyiru s'een taawotsi k'awonat ap'iproblemiyotsi bitso bofalitwo k'o wosho geyituwe. Ani k'oshoni bodants genz tatsi k'acwotsatse turni ka'iyotsi bodonet wek'o wosho geyituwe.

1.1. 100 (balo) Bobarfets beyiru s'een taawotsnat 20y0

(hiyo) boborfets) beyiru s'een taawotsnat 20yo (Hiyo) boberfets beyiru s'een jaawotsi dabonat k'awon shuuts anar siila (4 perediya) k'oswotsi daniruwets han bodank're okona:-

- * bodabo 20 y bodet s'een taawotsi dabituno
- * giit s'een taawots k'osh k'osheyo geyituno
- * dabi fiinotse woniyeyiruwets k'awuntso geyituno
- * taawi s'eenmatsi keewotsi fiinituno
- * 20yi bodet dabiap'I problemiyotsi galituno
- * 20y bodet k'awi ap'i preblemiyotsi fiinituno
- * ayyere 10ts imet s'een taawetsi bo ayyiotsn keewituno
- * ayyere 1ots imet s'een taawotsi bodabeyo tsnton keewituno.

Daniyuruwo fiina

A/ Shini k'ana

Daniyuruwoni k'aat'ots (daniyo) bkindftsere shini haniye dash fiints keewanotsi k'aldek'o (k'andek'o) b'ageyituwe.

- gitsik'opi tookani daniftsere shini ikl kaat'o tsere 20yi bobor fetso beyiru s'een taawotsi dabonat k'aawon bodantsok'o bosh gawiyo geyituwe. Eshna shuuts anar s'iilesh bayituwok Aatotsi k'anidee daniruwets mas'a fates beyiru terwerotsi shengsh k'anidee tintso geyituwe manatsnoye lool boborfetso beyiru s'een taawotsi dabonat k'awona etiruwo daniyosha hank'o k'andee tiino geyituwe.

Dan Aaiyik'ac'a

Ariya

- abakesiya
 - flesh kardiya
 - dabi janda
 - kawi janda
 - santima
 - ayirere lots imet fideliy dabana
- k'awonat Ayiyi fin detsts flesh kardiya

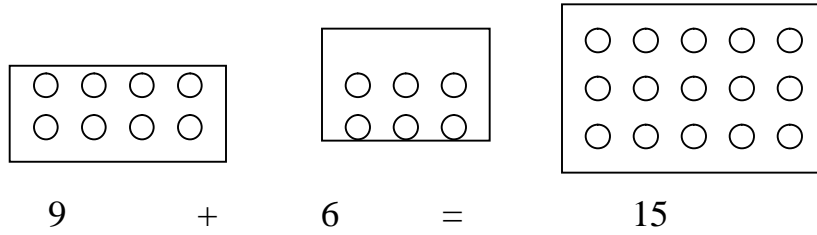
Bi/ danonat daniyi amatse dan t'iint'iina

1.1.1 ik-k'at' taawu danotse 20yo bborfetso beyiru s'ee taawots dabonat k'aawon, ani loolo bborfetso beyiru s'een taawotsi dabonat k'aawon danbode k'tso k'o danefe. Eshna shuutsanar'iilanats s'oodeerni daniruwotsntona 20yo boborftso beyiru s'een taawotsn dabonat k'aawon shuuts anar siila.

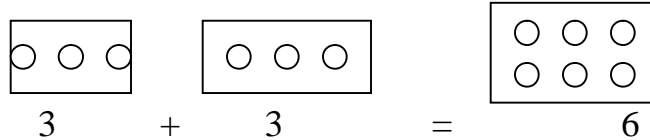
A/ 20yo bberfetso beyirutaawetsi daba

Haniye danbi t'intsetsok'ona 20yo bborfetso beyiru seen taawotsi giitoko ko'irni ko'imanitsi taawotsi ani bo'ahoshok ko'irni Handir kaimani taawurni ene k'iyetse giit k'iyotso dab bwoto daniruwots sh kewurni haniye dashe b'at'intsi weranna daniruwetssh ak'marats k'o'orni bodabo ambts bwotitwoko bon aato geyituwe.

Ariyi 1

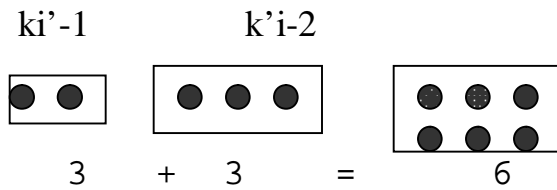


Ariyi 2



Noganoke datseyar ko'i dozosh faletwotsi, shuuts ko'k'ro karamelo, cokiyanat k'oshk'osh wotsn de'e warni giitoko weyinmo I kok ko'irni dabi s'een matsi kewo sheng shde'e bodan deketuwoko k'alofale tuwe.

Ariya



k'I 1^{ts} keez shutswotsi, ki2^{ts} ani keez shutswotsi gedno k'ryere okona k'i 3 tsa, k'I 1nat k'i2n ikats gerni taawets s'een matsi kewo kiitso faletwe manatsnowere ik'or aatotsi niyir niyiron de'am aak' marats k'op'ir boshiye twwok'o k'alogeyituwe.

Ariyi A S'een matsi kewotse shumt (8t) dabots ar bo woto bokeewitwok'o k'ala.

- | | |
|---------|---------|
| 8 = 0+8 | 8 = 5+3 |
| 8 + 1+7 | 8 = 6+2 |
| 8 = 2+6 | 8 = 7+1 |
| 8 + 3+5 | 8 + 8+0 |
| 8 = 4+4 | |

Bi, dabere7t bowoto Ariya

$7 = 0+7 \quad 7 = 4+3$

$7 = 1+6 \quad 7 = 5+2$

$7 = 2+5 \quad 7 = 6+1$

$7 = 3+4 \quad 7 = 7+0$

Hamiye dambi tit'se tsanots 8tonat 7t dabeyi ar bowotok'o danide k'osha, danayik'a c'on galo geyituwe.

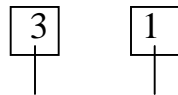
Ariya

A. Flesh kardiyo k'anide'eni dab ariyotsna daniruwo ts bo tokon fiinde'e war bodane tuwok'o weer kiitso geyituwe.

$3+1 = 4$

$4+0 = 4$

$2+2 = 4$



s'een taawotsi kartoniyon woyin miton/t'awlan fiinets aak' marats k'op'osh taw '4' imet giit s'een taawotsi detsts aak' marats daniruwo ts btokn (kishan) bokitsitwok'o k'alrni $3+1 = 4$ etiruwona bokitsitwok'o k'alonatni hanweeron k'osh aatotsi boterwer ituwok'o k'alo geyituwe, manatsno daniruwo ts jama etiru taawitanman boke wituwok'o wosho geyituwe. 3 natlna dabeyiruuatsieta eteso '4' nmo jama eta'etefo er shanide'e kewurni k'oshwetsi hank'on bokewish gowo imrni dan bodek'etwok'o wosho geyituwe.

Bi/ Jandode'er daniruwo ts dabi arwoto (aro) danbodek' etwok'o wosha.

manbwetiye, jam taawi s'ap'wetsi detsk bwottsoshe

+	O	1	2	3	4	5	6	7	8	9	10
0	0	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10	11
2	2	3	4	5	6	7	8	9	10	11	12
3	3	4	5	6	7	8	9	10	11	12	13
4	4	5	6	7	8	9	10	11	12	13	14
5	5	6	7	8	9	10	11	12	13	14	15
6	6	7	8	9	10	11	12	13	14	15	16

Jaandan aak marars k'o'orni awuk'o dabeyiru wok'o daniruwots ikikon (niyiron) tuwur baash beyokats bos'entsituwok'o k'alo geyituwe. mana tsno ariyo imrni daftarats boseentso shengsh s'ilo geyitwe.

Daniruwotsi haniye danbi kewetsotsatse tuwurni bodandek'o kup'idek' werona bodetsts dana enshde'eni dabonat wonawoneyi newana ariyon tizde'e kewurni dano shiyewon tuwo geyituwe.

Ariya

A/ $3+6 = \underline{\hspace{2cm}}$ Bi/ $6+3 = \underline{\hspace{2cm}}$

C/ $4+6 = \underline{\hspace{2cm}}$ Di/ $6+4 = \underline{\hspace{2cm}}$

E/ $2+3 = \underline{\hspace{2cm}}$ Fi/ $3+2 = \underline{\hspace{2cm}}$

Giit daniruwotsi tizrni iko 'A' shirotse beyiruwo giit lna'o 'Bi' shirots beyiruwo aak' marats bofinituwok'o woshuwe. Bogtits fiini k'awuntso taal bwotonat bk'a zon daniruwets s'iilo bofalituwok'o gowo imr danbodek'e tuwok'o wosho geyituwe. Manatsnowere hanton ik arts aatotsi jam daniruwots terweratse beyiruwetsi bofiinituwok'o kup'it keewo boosh iimogeyituwe.

Ariya A/ $5+2 < 6$ Bi/ $4+3 > 3$
 Ci/ $9+8 = 17$ Di/ $9+10 > 18$

Hanarts aatotsi aak' marats k'o'or taalituwe (=) bogetuwe (>) muk'ituwe (<) etiruo milkitwotsi (c'irwotsi de'er s'een matsi kewotsi fiino bofac'itwok'o daniyo geyituwe. Hanora s'een taaw ots shine shuutso danafneeta. Anni dabon fiinet aap'I problemi yotsi bitsonat tanon bofalityuwok'o daniyiwe. jamona daniruwots mafafatsi terweretsitse 1,2,3 ma'a' fiinonot k'aart' fiinon bofalityuwok'o k'alni dab tano bofalityuwok'o k'up'iyoy geyituwe "manatsna bo'aniyosh ar aniyoimrni bodaftarats k'oobo dek'etuwok'o kup'iyoy geyituwe.

Bi/ 20 bborfetso beyiru s'een taawotsi k'auda

Haniye shin daniruwotsi 1tse tuwur 20yo bborfetso beyiru s'een taawotsi k'aua tana bodanalorni hanokna shengsh danbodek'etuwok'o woshosha shuuts anars'iilo geyituwe.

Arita A/ $19-12 = 7$
 19 = bi'atse k'aweyiruwani
 12 = k'aweyirywoni
 7 = bok'oshewoni
 Bi/ 9- 4 = 5
 9 = bi'atse k'aweyiruwoni
 4 = k'aweyiruwoni
 5 = bok'oshewoni

Hannari aatotsi k'anide'e ak' marats k'oor daniruwots botokon k'aawi s'eenmatsi keewotse bi'atsek'aweyiruwona woshuwe. manats nowere shengsh danbodek'o nodaniye okon tewr4er 4 do ma'a' fiinonot k'aat' fiinona er ka'ide'e imr bofiinituwok'o woshuwe.

k'awitani jando ak'marats k'oor daniruwots shengsh boterwe rituwok'o wosho shenge tuwe.

Ariya

-	0	1	2	3	4	5
15	15	14	13	12	11	10
16	16	15	14	13	12	11
17	17	16	15	14	13	12

Jandana nalk'o mon dashan nababo bofalituwok'o woshe geyituwe. maniye okona terworwotsi imrni bofinituwok'o woshrni boaniyosha arianiyo imr bodaftarats k'oo bodek'etuwok'o woshuwe. Maniye okona k'a'o shengsh bodanisha dabonat k'au jageyo bokewituwok'o ariyonte'udee kitso geyituwe.

- Ariya** A/ $4-2 = 2$ hanbwottsoni $2+2 = 4$
 Bi/ $13-3 = 10$ Hanbbottsoni $10+3 = 13$
 Ci/ $19-8 = 11$ Hanbwottsoni $11+8 = 19$

Hank'o aatotsi aatr daniruwotsi niyiron bokewituwo k'o woshr boaniyono ariyir (ariyoimr) danobodetsetuwo k'o wosho geyituwe.

Manatse aani terwer 5 tatse beyiru aatotsi ma'a' fiinonat k'aat' fiinonaerr cim bofinituwok'o k'op'iyu geyituwe.

Dabi s'eenmatsi kewotse nofiintso k'owa k'awi (ka'u) s'een matsi keewotse wonawonefetsi de'e tano faletuwe.

Ariya:-

- A/ $8-3 = A$ Eshna $A = 5$
 Bi/ $6-4 = A$ Eshna $A = 2$
 Ci/ $10-A = 5$ Eshna $A = 5$
 Di/ $A-6 = 10$ Eshana $A = 16$
 E/ $4-A = 0$ Eshna $A = 4$

Hannari aatotsi ak' marats k'oorni wonawoneyiruwoysi fiino kiitsrni daniruwoys botokon bofinituwok'o woshuwe. Jaando de'erni bodano ayide'e kupiyo geyituwe.

Ariya A/

A	Bi	A-Bi
5	4	5-4 =1
10	6	
9	8	
20	10	
15	5	

Bi/

K'e	Be	K'e-Be
5	1	5-Be =4
8	Be	8- Be = 4
K'e	10	K'e -10 =0
12	Be	12 -Be =10
K'e	8	K'e -8 =10

Hanank'o jaanduwotsi k'anideer ni dani ruwoys bodane tuwok'o yiyo geyituwe. manatsnowere terwoer 5tsatse beyiru aatotsi maa fiinonat k'aat' fiinon kaidee bofiini tuwek'o woshuwe.

k'aawi s'een matsi keewotse (=), (>) nat (<) etiru c'iranotsi de'er ariyonte'udee biitsr daniruwoys danbode k'etuwork'o wosho faletuwe.

Ariya A/ 8-8 = 0

Bi/ 15-3>10

Ci/ 7-4 <5

Di/ 10-5>3

Hannari aatotsi ak'marats k'oorni daniruwoys bokeweyiye okona bomas'afatse tookan shirotse beyiru aatotsi bofiinituwok'o woshr aayiywe manatsno k'awiaap'i problemiyo biishrni ariyon teude'e kewrni boshiyeyiye'okona terwerorsi bofiini tuwok'o wosho geyituwe.

1.1.2. 1oo bborfetso beyiru s'een taawotsi

shuuts anar s'iila

Daniruwoysi otse tuwur loolo bborfetso beyiru s'eentaawotsi nababonat k'op'on ik (1u) k'aat'otse danrno. Hanokna k'ats s'een taawotsi

nababona, fideliyen k'op'onatni taawon bok'opetuwok'o woshr tuwo geyituwe.

Ariye $A/20 = \text{hiya}$ $Bi/30 = \text{shaasha}$

Hanarts ariyotsi ok'marats k'oorni bonababituwok'o aani bok'op'etuwok'o k'ala (wosha). Manatsno 20tse tuwurr 1oolo bborfetso beyiru (lots onanitsotsi) s'een taawotsi ak' marats k'o'orni eyiruwetsn bokewituuwok'o wosho geyituwe.

Ariya $A/20 = 2 \times 10$ $Bi/30 = 3 \times 10$

Hannari aatotsi bofiinora lotsisantimuwotsi de'erni 5ts10ts santima 7ts10ts santima, 9dilots santima--erni haniye dantintsets aatinarotsi de'erni bo'ayo bokewituwok'o k'up'iyo geyituwe.

$5ts10ts \text{ santima} = 5 \times 10 = 50$

$7t10ts \text{ santima} = 7 \times 10 = 70$

$9di10ts \text{ santima} = 9 \times 10 = 90$

hannton deshide'erni "ayiruwots" konotsi (awotsi) boyetok'onat bo'aya (jamo) etiruman daniruwotssh daniyo (keewo) geyituwe.

$5 \times 10 = 50$, 5nat 10 tsona ayiyiruwotsi

$50 \text{ tsonmo ayitsoni (jamal) eta etefo}$

erkeewi manatsno ani k'osh aatotsi flesh kardiyots k'anide'erni daniruwotsna gaarewon kayirni ikgaarewoni arewoni ayiyiruwotsi detsts flesh kardiyo, gitl gaarewonmo ayitsots (jama) detsts flesh kardiyo de'e warni haniyedashit'in tsankoweron kewo geyituwe.

3×10

30

Hanora 3zati lotsa etiruflesh kardidetsts gaarewots bokishrna 30 etiru flesh kardidetsts gaarewots bi'atse anar bekishituwok'o nk'aleokona okona tewr erotsi bofiinituwok'o wosho geyituwe.

Giirl weeroni s'een taawotsi bodabey wotsn tsntbad'iyir kitso faletuwe.

$$\underline{\text{Ariya}} \quad A/ 50 = 40+10 \quad Bi/ 50 = 30+20$$

Haniye danbi t'intsets oriyotsatse tuwurni 10 tsen ayits s'een taawotsi bodabewotsn bad'irni ak'marats k'o'orni daniruwots botokona niyirniyiron tuwurni bobad'itu wok'o k'alo geyituwe. Hanora eshe 10ts santimuwotsi de'er kitso faletuwe.

Ariya

70 santimo ambts lotse santimo bdetstsok'o aatr bokeewituwok'o woshuwe.

7t lots santime bdetsi er bokewi tuwok'o woshuwe

$7 \times 10 = 70$ han bwottsoshe er kup'iwe Anini

$70 = 10+10+10+10+10+10+10$ bwoto kewuwe Haniye okona tookhan shirotsa beyiru (terw erotsi) ma'a' fiionat k'aat' fiion bofiinituwok'o woshuwe.

Jamona loola bodetso beyiru s'een taawotsna taawi toos'a abake siyon de'erni boshine shuutso kiitso geyituwe. lotsetuwur loolo bborfetso beyiru s'een taawots giit taawi moo bode tsto k'o manuwe lotsi monat ikimoon bowotok'o ariyon kiitsrni daniruwots mas' afatse beyiru terwre rotsatse tuwur shuuts anarsiilo geyituwe.

Ci/ TATSONAT (k'oorona)

Daniruwots bomas'afatse beyiru dano shengdsh bodano nat eg etesh b'ageyiruwok'o desh bodek'o s'iilogeyituwe.

Ariya Bodabo 20yo bborfetso beyiru s'een taawotsi bodabituwok'o aata.

Ariya A/ $5+6 = \underline{\hspace{2cm}}$ Bi/ $11+9 = \underline{\hspace{2cm}}$

- 20yo bborfetso beyiru s'een taawotsi k'awonbofiinituwo k'o aata

Ariya

A/ $8-4 = \underline{\hspace{2cm}}$ Bi/ $18-8 = \underline{\hspace{2cm}}$

- wona wone yiruwotsi de'er bodabituwo k'o k'ala

Ariya

A/ $10+Bi = 15$ Bi/ $= \underline{\hspace{2cm}}$ Bi/ $3+5 = \underline{\hspace{2cm}}$

- wonawoneyir uwotsi de'er bok' autuwok'o wosha (k'ala)

Ariya $12-Bi = \underline{\hspace{2cm}}$ Bi/ $8-7 = \underline{\hspace{2cm}}$ Bi/ $8-7 = Bi$, Bi/ $= \underline{\hspace{2cm}}$

- dabi s'eenmatsi keewotsi ar woshituwotsi “ = ” “ < ” nat s u “ > ” etiru ciranots deer aata

Ariya A/ $2+3 > 4$ Bi/ $5+8 < 16$

Ci/ $15+10 = 15$ Di/ $6+7 < 14$

- s'een taawotsi shine shuutson bezrni arweshit “ = ” “ < ” nat “ > ” etiru c'iranotsi dek'a

Ariya A/ $19 \gt \square 10 > 9$

Bi/ $14 \lt \square 18 < 20$

Ci/ $4 = 4+0 = 3+1$

- dabonat k'awi ap'i problemiyotsi aata.
- lotson ayits s'een taawotsi bodabeyotsn badiyir boke wituwok'o aata.

Ariya A/ $90 = 40+50$ Bi/ $80 = 40 +40$

- lotson ayits s'een taawotsi ayiyiruwotsn bokewituwok'o aata.

Ariya A/ $30 = 3 \times 10$ Bi/ $70 = 7 \times 10$

1.2 detsfe etonat gushon geyef giit

fideliyets s'een taawotsats ik fideliyots s'een taawotsi dabonat k'anona.

Dan k'oos' wotsi :- daniruwots danhan danbokriye okana:-

- Giit fideli detsts s'een taawotsats ik fideli detsts s'eentaawotsi dabituno
- Giit fideli detsts s'een taawotsatse ik fideli detsts s'een taawotsi k'aawitano.
- k'awitanora bok'oshewo dabtanon arweshituno.
- ket wotts k'au ap'i problemiyotsi fiinituno.

Daniyuruwo fiinaa

A/ shini k'ana

Daniyuruwo daniyosh bakin dftsere shinihaniye dashi tints fiinotsi k'alo bish geyituwe.

- Tookhan daniftsere shini daniruwots haniye shini bodants dabonat k'a'on arbawato bogawish aatotsi k'anide'e t'itso geyituwe.

$$\text{A/ } 4+5 = 9$$

$$\text{Bi/ } 6+2 = 8$$

$$\text{Ci/ } 5-4 = 1$$

$$\text{Di/ } 15-4 = 11$$

Manatse aani giit fideli detsts s'een taawotsats ik fideli detsts s'een taawotsi dabonat k'aawaetiru woste beyiru terweyotsars shengsh k'ande'e woogeyituwe.

Danaayiyi k'ac'wotsi k'aniya

Ariya :-

- otse tuwur loolo bborfetso beyiru s'een taawotsidetsts flesh kardiya.
- loolo bborfetso beyiru s'eentaawotsi detsts dabi jaanda.
- loolo bborfetso beyiru s'een taawotsi detsts k'aawi jaanda.
- Abake siya

Bi/ danonat daniyi amatse dan t'int'in tina

Ham daniyiftse shini k'aat' 1.1 tse dabonatka'on bedantso tsna, gawiyosha bodabo 20 niye bowaw s'een taawotsi de'er dabonat k'au fiinotsi bogawi tuwok'o woshogeyituwe.

Ariya A/ $4+5 = 9$

4 nat 5n dabeyiruwotsi, 9ni jama

Bi/ $6-4 = 2$

6 b'eatse k'aweyiruwoni 4 ni kaweyiruwoni 2 bok'o she tsoni.

Ci/ $10-2 = 8$ hanbwottsoni $2+8 = 10$

Di/ s'een taawotsi bomoona beeza.

$15 = 1$ tatsonatni 5 ikwotsna.

s'een taawotsi taawonat dabeyiruwotsn kewrni danbi kewets ariyiman k'ona shuuts amar s'iilo geyituwe. Hanaikikon ak'marats k'o'or daniruwots bokewe tuwok'o woshuwe. Maniye okona han bosh bgaltsok'o ndaniye okona handr tookmana kewo geyituwe.

1.2.1. Giit fideli detsts s'een taawotsats ik fideli

detsts s'een taawotsi daba

Giit fideli detsts taawotsi ikhohe detsts taawotsnton dabosha, giit fideli detsts s'een taawotsi lotson bo'ayitsonat (jama) ik fideil detstsots dabo (jama) bad'iyir k'op'a.

Ariya A/ $23+4 = Eetiruwona 23 = 20+3$ fer badiyi Eerni

bomaa k'awuntson dabrni daniruwotssha ak'marats k'oor kiiitso geyituwe.

Eshna $23+4 = 20+3+4$

$= 20+7$

= 27

Bi/

Bwoto ik kon kiitsuwe manatsno k'oshk'osh aatotsi niyirniyiron de'erbofiinituwok'o gowoime. Hanor nak'omand and dabonat dashan dabon bodanetuwok'o woshi jaando de'erni dabaeteyiruwo bodanetuwok'o haniye dashtsan k'owon kiitso falletuwe. Hank'o etoni ikimoo ikimowonton bodabituwok'o kiitsaeta.

+	0	1	2	3	4	5
75						
74						
73						
81						

Aruya:-

A/

+	0	2	3	4	5	6	7
23	23	25	26	27	28	29	30
22							
21							
20							

Otse tuwur loolo bborfetso beyiru s'een taawotsi flesh kardiyo k'anide'e dabo eg bwoto k'o'o shengsh bodanish kup'iyo gyoutuwe.

Ariya A/ 45+3 Etiruwana

40	5	3
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Hank'on k'anide'eni daniru jamo ikikon bode tsetuwok'o woshni 5+3 = 8 etiruwana daniru k'atsuwots bokewi tuwok'o woshi. Erni 40+8 Etiruwana daniru wots botokewituwok'o er danbede k'etuwok'o wosho geyituwe.

Abakesiyode'er bodabituwok'o k'up'iwe. Han daniruwoots mas'afatse bak'anetsotsna tatsi moonatiki moon abakesi gumbotse beyiru shutswotsi kewur kiitso geyituwe.

manatsno dabi aap'i problemiyotsi bofinituwo k'o woshe ne geyituwe. Jamana haniye danbi kewets weerjamwotsi de'erni daniru wots

dano bodetsetu wok'o woshni bomasafatse beyiru terwero tsna ma'a' fiinonat k'aat' fiinona er kaide'e imeyiye okona bofiinosh (aniyosh) ariko (aniyo) imogeyituwe.

1.2.2. Giit fideli detsts s'een Taawotsatse

Ik fideli detsts s'een jaawotsi k'awa

Giit fideliyets s'een taawotsatse ik fideliyets s'een taawotsi k'a'o kitsftsere shini haniye shini bodants k'au s'een matsi keewo tizni kewo geyituwe.

Ariya :- A/ $9-4=5$ hanbwoti $4+5=9$

Bi/ $6-5=1$ han bwoti $5+1=6$

Ci/ $9-9=0$ hanbwoti $9+0=9$ bwottsoshe

Er daniruwots bokeewetuwok'o wosheyiye okana bomas'afatse beyiru terwerotsi bofiinituwok'o wosha. Manatsna giit fideliyots s'een taawotsi de'erni bo'atse il fideliyetsi ts s'een taawotsi bok'awituwok'o kiitso geyituwe.

Ariya:- A/ 14-3 Etiru k'awi s'een matsi k'eewanitsna giit fideliyets s'een taawona dab tanon bad'ide'e k'o'orni ($14=10+4$) maniye okona iki maa wottsona s'een taawu 4 k'awa ($4-3=1$) Erni $10+4=3=11$ bwoto kitsuwe.

Manatse tuwurm ariyo (aridek'o) bofalituwok'o kiitsuwe.

$14-3=11$ eege $11+3=14$

Hanotsk'o aatotsi ak' marats k'o'or daniruwots nton keweyo (shiyeyo) geyituwe.

Ariya:- $82-2=80+4-2$

$=80+2$

$=82$

Hanbwoti $82+2=84$ bwottsoshe

Jamana danonat daniyiamo shengsh kup'iyosha k'awi jaandona, abake siyonatni flesh kardiyon de'e rni dano daniruwo ts bgalituwok'o woshogeyituwe. Danbe nodek' ts danaayiyik'a c'ac'wotsi dabatse nofiints ok'owa k'au watsno fiino no bgeyit.

Ariya:-

-	0	1	2	3	4	5	6	7	8	9
29		28								
39										
49										
59						54				
69										60

Han n'ishiyie okona k'au aap'i problemiyotsi bofiinitu wok'o aayir k'up'iyogeyituwe. Daniruwo ts danhan k'os'o (eg etosh b'agetso) bodeshdek'o nat bok'azon danosha bo masafatse beyiruterwerotsi ma'a'fiinonats k'aat' fiinosh k'oide'er imrni bofiints man s'iilr boosh ori'amiyo ime .(dozuwe)

Ci/ TATSÓNAT K'ORONA

Daniruwo ts danan k'os'o dambode k'o s'iilo geyituwe.

- Giit fideli detsts s'een taawotsats ik fideli detsts s'een taawotsi bodabituwok'o aato k'anide'e aati.

Ariya:- A/ $75+4 = \underline{\hspace{2cm}}$ Bi/ $63+6 = \underline{\hspace{2cm}}$

- Giit fideli detsts s'een taawotsatse ik fideli detsts s'een taawotsi bok'awituwok'o aato k'anide'e aati.

Ariya:- A/ $69-9 = \underline{\hspace{2cm}}$ Bi/ $35-3 = \underline{\hspace{2cm}}$

- k'a'onat dabotse ket aap'iprobleniyotsi bofiinituwo k'owoshi
- Haniye danbi daniruwo ts tatsósh t'iin tsets aato tsna ma'a' fiinonats k'aat' fiinona er bofiinitu wok'o woshrni daniruwo tsitse k'ats wots tuwur ak' marats bofiinituwok'o woshuwe.

1.3. Detsfe Etonat Gushon De'er waaf Giit fideli detsts s'een taawotsats Ik fideli detsts s'een taawotsi dabonat k'a'ona.

(11 perediya) Danhan k'os' wotsi :- damiruwots danhan boishtsok'ona:-

- Detsfe et de'e waaf giit hoheyets s'een taawotsats ik hoheyets s'een taawotsi dabituno.
- Gush geyef giit hoheyets s'een taawo tsatse ik hoheyets s'een taawotsi k'awituno.
- Ket dabi aap'i problemiyotsi fiinituno.
- Ket k'auwi aap'i problemiyotsi fiinituno.

Daniyiruw Fiina

A/ Shini k'na

Daniyiruwoni daniyots kindftsereshini haniye dashi fiinanotsi fiin dek'o b'igeiyuwe.

- Took han daniftse shini k'aat' 1.2 tse beyiru dabonat k'aoeg etosh b'igeiyruk'o daniruwotssh gawiyosha (bodan) danosha shuuts anar s'iilni aato k'aat' 1.3ts beyiru terwer otsats shengsh k'ande'e t'iino geyituwe.

Danaayiyi k'ac' k'aniya

Ariya:- - flesh kardiya

- dabijaanda
- k'awi jaanda
- abakesiya

Bi/ Danonat Daniyi Amatse Dan JiinT'iina

Tooaniye shin daniruwo ts detsfe etonat gushon de'e wafa giit fideli detsts s'een taawotsats ik fideli detsna seentaawotsi dabefok'onat k'owefok'o bodantsna shuuts anar s'iilk'o wesh de'eni daniyosh tuwo geyituwe.

Ariya:-

A/ $2+7 = \underline{\hspace{2cm}}$

Bi/ $5-3 = \underline{\hspace{2cm}}$

Ci/ $13+2 = \underline{\hspace{2cm}}$

Di/ $25-4 = \underline{\hspace{2cm}}$

Hanan k'o (hanarts) aatotsi k'anide'e ak' marats k'oor daniyiruwo ts dabe jamenat bok'o shk'osheyon bokewituwo k'up'iyogeyituwe. Erni daniruwo ts mas'afatse beyiru terwerotsi bofiinituwo k'o woshi Bedetsts danatse tuwur (een) tooko mand bit'iin tsok'oon kindo faletuwe.

1.3.1. Detsfe Et de'e Waaf Giit fideli detsts s'een Taawot

sats ik fideli detsts s'een jaawotsi daba (5perediya)

Haniye danbi t'iintsetso k'ona giit fideli detsts s'een taawotsats ik fideli detsts s'een taawotsi dabosh geyewora taawotsi bomoon k'oorni bodabeyo (jamo) datso faletwe.

Ariya A/ $18+1 = 10+8+1$

Bi/ $38+1 = 30+8+1$

$= 10+9$

$= 30+9$

$= 19$

$= 39$

Danbi t'iintsets oriyimanatse tuwur bodabeyo (jamo) 10tson ayits s'een taawotsi haniye doshi t'iintse tsank'on kii tso faletuwe.

Ariya :- A/ $46+4 = 40+6+4$

Bi/ $58+2 = 50+8+2$

$= 40+10$

$= 50+10$

$= 50$

$= 60$

Daniruwots giit fideli detsts s'een taawotsi babitanona bad'iyoo bodantsotsna tatsimaa s'een taawotsitatsi ma'a' s'een taawotsnton dabr tanarni bojamdabo kiitso bofalituwok'o kiitso geyituwe.

Maniye okana daniruwots mas'afatse beyiru terwerotsna ma'a' fiinonat k'aat' fiinona er koide'e imr bofiinituwo k'o woshuwe.

Danbit'iintssets weeron daniruwots bodaniye okona:-

“Detsfe” etiruwo eg bwotok'o haniyedashtsank'on t'iitsr daniyo geyituwe.

Ariya:- A/ $38+6 = 44$ ikimaa fideli s'een taawodaba $8+6=14$

eshna 14'na iki maa shirotsk'oo rni 1 ko detsfo erni 1 kamona tatsi mootse beyiru taawonton nodabit $3+1 = 4$ bodaboni (jamoni) 44 b'owetitier keewa.

Bi/ $75+8 = 83$ ikimaa s'een taawotsi daba $8+6 = 14$

hanora '4' iki maats k'o'orni 1 detsfone noetet beyiruwonton nodabit $1+7 = 8$ bodaboni (jiamoni) 83 bwotit

Danbi ariyanotsi nos'iiltsok'o wona ikima'a' taawots bodabeyora ambts ikwotsnat ambtstatswetsn nodatstso k'o nat datsetsotsn bomaa k'awntson doz de'e k'op'o bofalfetso daniya geyituwe.

<u>Ariya</u> :-	47	47	47
	<u>$+9$</u>	<u>$+9$</u>	<u>$+9$</u>
		<u>6</u>	<u>56</u>

Shawat (7) ikawotsnat jeed'iyi (9) ikwotsn ikats dabeyor ambts ikwotsne nodatsi ? tatse shirta tatseshirt ikwots ambts tatswotsnat ambts ikwotsneya bweti ? shirto awoke k'op'eye? ik tatsoniye awoke b'ak'op'e ? uuts (5) tatswots bo'ootats awuk'owe bok'op'e ? oot'o (jamo) ambts tatswotsnat ambts ikwotsniya b'adets? ear aatr shengsh daniyiwe. Manatsnowere daniruwots mas'afatse beyiru terwerotsnat aap'i problemiyotsn ma'a'fiino

nat k'aat'fiinonsh kaide'e imr bofiinituwok'o woshuwe. Daniruwotsitse fiintsotsi ikikon (niyiron) tizr ak' marats bofiinituwok'o woshrni bofiinsha (bo'aniyosha) arianiyo imrni shenpsh bo daftarats k'o'o bode k'e tuwo k'o woshuwe.

1.3.2. Gush Geyef Giit fideli detsts s'een Taawotsatse Ik fideli detsts s'een Taawo tsi k'awa

(6 k'aat'I wora)

Hanokna giit fideli detsts ikima'a' s'een taawoni bi'atse k'a wiru s'een taawoniye b'umukituwotsna giit fideli detsts s'een taawoni k'a'osh b'shengetu weerona tats wotsnat ikwotsn k'op'o bofalituwok'o woshde'e daniyo geyituwe.

Ariya:- A/ $38-9 = \underline{\hspace{2cm}}$ hanatsna $38 = 30+12$

erk'oorni keewi manatse aanarni

$20+18-9$ er shengsh daniwe.

Bi/ $42-5$ Eshna $42 = 30+12$ er k'oo. maniye

okona $30+12-5$ er daniwe.

Danbit'iintsets ariyanotsk'owon s'een taawots tatswo tsnat ikwetsn k'op'efoko bodandek'o k'onat terwerotsi bofiinok'o daneyiye okona ariyotsna ak'marats k'o'orni bofiini tuwoko wosho geyituwe.

Ariya:- A/ $32-8 = \underline{\hspace{2cm}}$

32tse 8to k'a'osha shini 32 to tats wotsnot ikwotsna er owuk'o k'op'etuwok'o aati erni $32 = 20+12$ eramts tatswotsnat ambtsik wots

báwoto bokewituwok’o woshi. Aanni tatse giit ikwotsatse shumt ikwotsi k’áúwere ombts báorituwok’o bokeewish aatuwe. Haniye okona $32-8 = 24$ bwotituwok’o daniwe.

Danbi k’o p’etsano tsna ak’marats k’o’or kitsuwe.

$$32-8 = 20+12-8 \qquad \text{Shini } 12\text{tse}- 8\text{to} = 4$$

$$= 20+4 \qquad \text{Manatseanarni } 20+4 = 24$$

Eshna bok’oshetsoni 24 er keewuwe.

Hank’on k’osh k’osh ariyotsi ndaniyiye okona daniru wotsmas’afatse beyiru terwerotsi daniruwots bofiini tuwok’o daniyo (keewo) geyituwe.

Ariya :-

$$\begin{array}{r} A/ 23 \\ - 7 \\ \hline 16 \end{array} \quad \begin{array}{l} * 3\text{tse } 7\text{to k’ao falerawotsna tatsi moow atse} \\ \text{beyiru } 2 \text{ tatswotsatsna } 1 \text{ k } \text{tatso nodek’et} \\ \text{(nogushit) erni } 3\text{tonnodabit, } 10+3 = 13 \\ * 13\text{tse } 7 \text{ to kawarni datsets tona ikima’a’} \\ \text{shirotsno k’o p’et. } (13-7 = 6) \end{array}$$

* Tatsi maa wotts’ 2 tse iko gush

nodek’tso tsna iku báortso k’o gawuwe. Erni orts ik manna bok’o sheyi tatsi maashiruts mowuwats k’owe.

Haniye okona $23-7=16$ Etiruwna ak’marats k’oorni daniruwots shengsh danbode k’etuwo k’o wosho nec geyituwe. hanora (bofiinora) ariyo (arwosho) haniye dashts ank’o k’o’ode’e kiitso geyituwe.

$$23-7 = 16 \text{ hanbwottsoni } 16+7 = 10+6+7$$

$$= 10+13$$

$$= \underline{23}$$

Erni k’osh k’osh ariyotsno nfiiniye okona bomas’afatse tookan shirotse beyiru terwerotsi ma’a’fiinonat k’aat’ fiinona er kaide’e imr bofiinitu wok’o woshi maniye okona aap’iproblemiyotsi bofiinituwok’o woshrni bofiints

fiinsha (aniyosha) ari aniyo imrni shengsh bodaftarats k'o'o bode
k'etuwok'o k'ali

Ci/ TATSONAT K'OORONA

Daniruwoots danhan shengsh bodano s'iilo geyituwe.

- Detsfe et de'e waf giit fideliyets s'een taawotsatseik fideliyety s'een taawotsi bodabituwok'o aati.

Ariya:- A/ $85+9 = \underline{\hspace{2cm}}$ Bi/ $85+9 = \underline{\hspace{2cm}}$

- Gush geyef (de'e waf) giit fideliyets s'een taawotsats ik fideliyets s'een taawotsi bok'auwituwok'o aato k'anide'e aati.

Ariya:- A/ $23-8 = \underline{\hspace{2cm}}$ Bi/ $96-7 = \underline{\hspace{2cm}}$

- Danbi tiintssets weeront'iinets aatotsna ma'a'fiino nat k'aat'i fiinonaer kaide'e imrni fiin bofa lonat bomawon s'iilo geyituwe.
- ket dabonat k'a'wi aap'i problemyotsi aati

1.4. Detsfe Etonat Fushan Gerawu (De'ewaraw) Giit fideliyets s'een Taawotsats ik fideli detsts s'een jaawotsi dabonat ka'ona

(10 perediya)

Danhan k'os'wetsi Daniruwootsi han dan bek'riye okona

- Detsfe et de'e waraw giit fideli yets s'een taawotsi dabituno.
- Detsfe et geyeraw (de'ewaraw) giit fideli yets s'een taawotsi dabi aap'i preblemiyo fiinituno.
- Gush geyeraw (de'ewaraw) giit fideli yets s'een taawotsi k'awituno.
- Gush geyeraw giit fideli yets s'een taawotsi ka'wi aap'i problemyotsi fiinituno.

→ k'awi s'eenmatsi keewotse bok'oshe yosh aaniyo bá beyonat b'alón galituno.

Daniyuruwo Fiina

A/ Shini K'ana

- Daniyuruwo daniyosh b'kindftseré shini haniye dashi t'iintséts fiinotsi fiindek'o (k'andek'o) geyituwe.
- Danitookan daniyiftse shini s'een taawotsi tatswotsnat ikwotsn dabon keewa eetiruwona shuutsaanar s'iilo geyituwe.

Hank'ona aatotsi tizrni k'aat'otse bokewetuwok'o woshrni bodani mas'afatse beyiruterwer 21,22,23 tsats ghengsh k'ande'e warni fiiniwe (daniruwotsna)

Dan Aayi k'ac' K'aniya

Ariya - flesh kardiya

- 1oo bborfetso beyiru s'een taawotsi detsts dabi jaanda
- k'awi jaanda.

Bi/ Danonat daniyi Amatsee dan i'iin i'iina.

Tookhaniye shini giit fideli s'een taawotsats ik fideli yets s'een taawotsi dabonat k'a'ona etiruwó bodantso tsna biatse tuwrni k'aat'otse bokewetuwok'o woshi.

Ariya A/ $15+3 = \underline{\hspace{2cm}}$ Bi/ $34-3 = \underline{\hspace{2cm}}$

Hanank'o aatotsi bofiinonát bok'azon siilrni s'een taawotsi boma'a'kawuntson dabonat k'a'ón gawiyo geyituwe. mana tsnówe giit fideli eyetss'een taawotsi dabonat k'o'ona etiruwótsi t'iintséts ok'on kiiitso geyituwe.

1.4.1. Detsfe Eet De'e waraw Giit fideli yets s'een

Taawotsidaba (5 perediva)

Erni $50+8 = 58$ er ikikon bedaniye okon k'awi ntsre bodanetuwok'o woshogeyituwe.

$$\begin{array}{r} \text{Ariya:- } 35 = 30 + 5 \\ +22 \quad \underline{20+2} \\ 50+7 \end{array}$$

Jamon danan daniruwo tssh shengsh bgalonat b k'azon danosha bomasafatse beyiru terwerotsi bofiini tuwok'o wosho geyituwe. Haniye okona terwerots na k'aat' fiinon ma'a'fiinon bofiin ituwok'o nk'al iyeokona niyirniyiron tuwur ak' marats bofiinituwok'o k'aluwe.

- Ikimoonat tatsi mootse beyiru s'een taawotsi bomoon k'osh dabeyiruwotsnton shengsh bkaw kawats (b'ekawon) bobeyo keewi.
- Ikimeyitsi s'een taawotsi shini dabr boimetwo ikimoots k'op'a
- Manatse anar tatsi meyitsi s'een taawotsi dabnitatsima'a' shirots k'op'a.

Danbit'iintsetsank'owon bodaniye okon giit fideli yets s'een taawotsi dabi ket aap'i problemiyotsi bofiinitu wok'o woshogeyituwe. Erni dabi jaando weyinmoflesh kardiyo de'erni shengsh danobodetse tuwok'o woshuwe.

1.4.2. Gush De'ewaraw (geyeraw) giit fideliS'een taawotsi k'awa (5 perediya)

Han daniyiftse shini haniyeshn k'aat' 1.2 tse gush geyeraw giit fideli eyets s'een taawotsatse ik fideli yets s'een taawotsi k'a'úwa etiruwotse tuwur shuuts aanars'iile.

$$\begin{array}{r} \text{Ariya:- } A/ 16 \qquad \qquad Bi/ 18 \qquad \qquad Ci/ 28 \\ \quad \quad \quad - 3 \qquad \quad \quad - 4 \qquad \quad \quad -5 \\ \quad \quad \quad \underline{13} \qquad \quad \quad \underline{14} \qquad \quad \quad \underline{23} \end{array}$$

Hanank'o aatotso daniru wots botokon tuwur ok' marats bofiinituwok'o woshi N'imet ariyyotsi ik fideli yets s'een taawotsi ikimoon giit fideli eyets s'een taawoniye bogobígeyiratse.

Shuts anar s'iilon tiints aatotsi daniruwots bofiiniye okona giit fideli yets s'een taawotsi k'a'wi s'een matsi keewotsi ak' marats k'o'orni bok'osho (boagi tstvo) damiruwots bofiiniruwok'o woshuwe. Hanora s'een taawotsi bad'ide'e k'oor bokawituwok'o woshi (k'ali)

$$\begin{array}{r}
 \text{A/ 45} \\
 - 24 \\
 \hline
 21
 \end{array}
 = 40+5
 \begin{array}{r}
 \text{Bi/ 25} \\
 - 12 \\
 \hline
 13
 \end{array}
 = 20 +5
 \begin{array}{r}
 - 20-4 \\
 - 10-2 \\
 \hline
 20+1 \\
 10+3
 \end{array}$$

Danbi t'iintssets arriyanots nari ariyot'iitsrni shini ikotsi bok'awituwok'o kiitsa, uutsatse awudo k'a'weyor ambtso b'orituwok'o aata erni. Habeuutsatse hiyeawudo k'aúweyor bodagitsi bok'oshe wo ambtsbwoto aati. Hannari k'oshk'osh aatotsi aatrni bofiinituwok'o kup'yo geyituwe.

Haniyere okona finat bodatstsona ar bwoto wokin gawiyir bofinituwok'o gawit k'ala

$$\begin{array}{r}
 \text{A/ 45} \\
 - 24 \\
 \hline
 21
 \end{array}
 \text{ariya (gawiya) arbwo tkitsa}
 \begin{array}{r}
 24+21 = 45
 \end{array}$$

$$\begin{array}{r}
 \text{Bi/ 25} \\
 - 12 \\
 \hline
 13
 \end{array}
 \text{arbwo tkitsa (ariya)}
 \begin{array}{r}
 12+13 = 25
 \end{array}$$

Hanank'o fiinotsi bodanetuwok'o woshi. Haniye boget s'een taawotsi boma'a' mo'o'n k'o'or k'a'o bofalituwok'o kiitso geyituwe.

Tatsima'a'	Ikima'a'
4	7
-1	2

Ariya:- A/ 47

$$\begin{array}{r} -12 \\ \hline 35 \end{array}$$

3	5
---	---

Bi/ 62

$$\begin{array}{r} -41 \\ \hline 21 \end{array}$$

Tatsima'a'	Ikima'a'
6	2
-4	1
2	1

S'een taawotsi tatswotsnat ikwotsner ka'ide'e woyinmo taawotsi dabiweron bad'iyir k'a'o bodaniye orona daniruwots botokon shengsh befiinituwok'o woshi.

Ariya:- 36

$$\begin{array}{r} -12 \\ \hline \end{array}$$

Etiru k'awitano finosha ikimootse beyiru s'een taawots konotsne? 6tse 2 to k'aweyor (datsetuwo) abtse ? daatsetso ambts moowotse k'oop'e ? tatsimootse beyiru taawots awotsne? 3tse 1 ko k'a weyor ambtse bweti ? datsets amb tsi mootse k'oep'e ? er aatr daniyo geyituwe. Haniye okona

Daniruwots bomas'afatse beyiru terwerotsnat aap'i problemyotsn bofiinituwok'o woshi. Hanora maafiinonats k'aat' fiinino er ka'ide'e n'imiye okona k'aat'otse bokeewetuwo (boshiyeyetuwo) woshni bofiinoshon ari'aniyo imr shengsh bodaftarats k'o'obode k'e tuwo woshi.

Jamona giit fideli yete s'een taawotsi awuk'o k'auwefok'o bodantsotsna anda k'awi s'een atsi kewo haniye dashit'iin tsets werana bokewituwo woshi.

Ariya:- A/ 75

-12

63

Ci/ 15

-10

5

Bi/ 79-82 = _____

Di/ 60 -70 = _____

Eshxna “Bi”nat “Di” tse keewets k’awi s’een matsi keewotsi falbok’aawe rawok’o daniruwotssh keewuwe.

Hanbwottsoni 79-82 =_____ etiruwantsna. b’atse k’aweyiruwoni k’awirwatse (k’awiruwoniye) bámuk’utsoshe er kiits geyituwe.

Ci/ TAATSONAT K’OORONA

Danhan daniruwots shengsh danbode k’ok’o s’iilo geyituwe.

Ariya:-

- Detsfe etgeyeraw giit fideli ayets s’een taawotsi maafiinonat k’aat’ fiinon bofiinituwok’o woshni bofiinonat bok’ azon s’iilo geyituwe.

Ariya:- A/ 86

+12

Bi/ 37

+22

- Giit fideli detsts s’een taawotsn fiinets dabiaap’i problemiyetsi aata. Hanora aatotsi daniruwots jin (aawújamo) bok’eyori bodek’iruwotsi (bodanka) woto bogeyituwe.

Airya:-

Ikots (beshts) shaashanitsna 35 ash wotsi Ec,Iy iyetskne ett k’op’ere shaasha nitsnomo 47 wootere Jamon ec ay Bi yon deshets ashwots ambtsno?

$$28 = 20 + 8$$

$$+34 = \underline{30+4}$$

Ikimoowotsi booali tatsi moono báali bodabituwok’o keewr bodabo ambts bwotonat ambts tatswotsnat ambts ikwotsn bwotok’o aati. Erni daatsets tatsimaa taawo awuk’o k’aletuwok’onat ikimaa taawo awumand de’eame tuwo k’o aatrni detsfe etiruwo kiitsi aay ariyotsinfiniye okona terwerotsibofiinituwok’o woshi. Hank’on bofiino ndaniye okona ikats dabeyiruwotsi bodabon (jamon) bobad’irawo dabo bodane tuwok’o wosho geyituwe.

Ariya :- A/ 46
+15

- Ikimaa fideli daba $6+5 = 11$
- Iko ikimoots (maashirots) rots
 k'o'or iko detsfe er keewa.
- Tatsimaa fideli wotsi daba $4+1 = 5$
 eshna $5+1=6$ hantatsimoots k’op’a
- bodabo (jamo) 61 bwotit

Bi/ 45
+48
 93

- Ikimaa fideli wotsidaba $5+8 = 13$
 ‘3’ iki maashirots k’o’orni iko
 detsfe
- ‘8’ nat ‘1’ daba $8+1 = 9$ hana tatsi
 maashi rots k’op’a
- bodabo (jamo) 93 bwotit.

Hanank’o aatotsi ak’marats k’oor danbode k’etuwok’o daniyo geyituwe. Erni daniruwots mas’afatse beyiru terwerotsi bofiinituwok’o wohsrni bofiino ar bé wotonat ar wot bák’azon s’iilo geyituwe.

GIIT FIDELI YETS KEEZ S’EEN TAAWO
TSI IKN (IKATS) DABA.

Ikil k'aat'otsna bodabo (jamo) 20 niye bowawu keez s'een taawotsi dabo danrno

<u>Ariyo:-</u> A/ 3	Bi/ 6	Ci/ 8
+ 4	+ 7	+ 1
<u>2</u>	<u>5</u>	<u>4</u>

Hanank'o aatotsi shuuts anar s'iilk'o woshde'e daniyirani terwerotsi bofiinituwok'o woshogeyituwe. Daniruwo ts han danbo dek'ye ok'ona detsfe et geyef (de'ewaf) k'eezdabeyiruwotsi (dabeyiru) s'een taawotsi haniye dash tsn k'owon daniyo geyituwe.

<u>Ariya:-</u> 13	= 10+3	- 10tsi ayonat /10tson ayitso
+14	10+4	nat ik fideli yets s'een
<u>12</u>	<u>10+2</u>	taawon badide'e k'op'a.
<u>39</u>	<u>30+9</u>	- Ikimaa fideli wotsi daba
		3+4+2 = 9 eshna '9'na iki
		maa shirots k'op'a
		- Tatsimaa hohe wotsi daba
		1+1+1 = 3 eshna '3'na
		tatsimaa shirots k'op'a

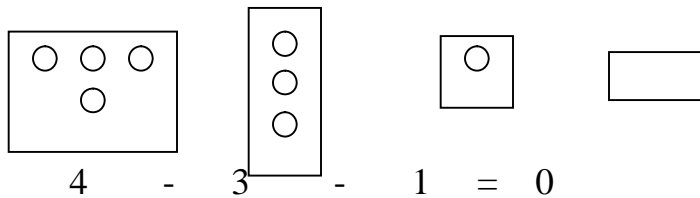
S'EENTAAWOTSI 'DETSFE' ET WEERONDABA

$$\begin{array}{r} \text{Bi/ } 67 \\ +13 \\ \hline 12 \\ \hline 92 \end{array}$$

- * Ikimoowotsi daba $7+3+2 = 12$ eshna '2' iki maa shirots k'oorni '1' detsfe no'etet
- * Tatsimoowotsi daba $6+1+1 = 8$ eshna $8+1 = 9$
- * Bodaboni (jamon) 92 b'awotit eta.

Danbi t'iintsets ariyank'ona daniruwo tssh daniyo geyituwe. Erni bomasafatse beyiru terwerotsi maafiionat k'aat'fiinona er k'aide'e imrni bofiini tuwok'o woshrni aap'i problemiyotsno bofiinituwo k'o wosheyiye

daniya shinni awd shutsatse keez shutso k'auweryor ambtso borituwk'o aata. Erni orts shutswo tsatse ik (1) shutso k'auweyer ambtse oori eraata. Haniye okona daatsetso bok'osheyo ak'marats k'o'or kiits.



Hank'o weron keewrni taawu'ikatse taw giitotsi k'aweyora b'atse k'aweyiruwatse giitotsi (k'aweyir uwotsi) niyir niyiron k'a'wa. Erni bo danimas'afatse beyiruterwerotsi k'aat'otse bofiinituwok'o wosha giit fideli yets s'een taawotsi k'awefok'o haniye dashi kiitsetsank'on daniyi.

Ariya:- $45-28-12 = \underline{\hspace{2cm}}$ k'aat'otse beyiru daniru wets buwur boned'ituwok'o keewrni ambts bowoto taawde'e ak'marats k'o'o. Daniruwots taawo 45 bwotiyala hanitsna 28 daniruwotssh bewere ir keewi erniani eed'iruwotsitse 12 bbeyetuwok'o keewi. Hanor ak'maratso 45-28-12 er k'oorni s'een taawu'ikatse giit s'een taawotsi k'alosha shiniiko k'awarni oratsna (datsetsatsna) anigiitl taawo k'aubwoto ak'marats k'oor kiitsa.

$$45-28 = 17$$

$$17-12 = 5$$

K'osh naari tanoni s'een taawotsi bomaa k'awntson k'awa.

Ariya:- $84-22-41 = \underline{\hspace{2cm}}$

- Ikimaa s'een taawotsi k'awa
 $4-2-1 = 1$
- tatsi maa s'een taawotsi k'awa
 $8-2-4 = 2$, datsetsoni 21

Danbi t'iintsets hank'on shengsh ndaniyiye okona bomas'afatse beyiru terwerotsi maa fiinonatsi k'aat' fiinona er imrni bofiininar s'iilo geyituwe.

Ci/ TATSONAT K'OORONA

Daniruwots danhan k'os'o dets bodek'o danosha s'iilogeituwe.

Ariya:-

- Giit fideli yets s'een taawiaatotsi bodabitu wok'o a'ata.
- Giit fideli yets s'een taawiaatotsi bok'awi tuwok'o aata.
- Jamona detsfe etonatsi gushon geye f s'een taawots aato imrni moonat k'aat'otse bofiinituwok'o woshir s'iilogeituwe.
- Aap'i problemiyotsna dabonatsi k'awitani narotsi imr (keewor) bofiinituwok'owosha.

1.6. EED' TATSA (INDA) K'AC'W (2 perediyo)

Danhank'oswotsii daniruwots danhan bo'ishiye okana:-

- yootsi eed' tatsefode'er boganoki keewots eed'o tatsituno.
- indan-zizron ----eed'o tatsituno

DANIYIRU FIINA

A/ SHINI K'ANA

Daniyiruwo daniyosh k'aat'ots kindftsere shini haniye dashi keewanotsi k'andek'o bigeyituwe.

- Tookhan shirotsere beyiru tatsi k'ac' wotsnat k'osh k'osh yootsi eed' tatsik'ac'wots eeg bowo tok'o shengsh k'ande k'o geyituwe.

DANAAYIYI K'AC' KANIYA

- Indonat kishi terentan taalit bri joka.
- kishit'era
- kishi inda

Bi/ DANONAT DANIYI AMAISE DANO T'IINT' IINA

Tookan daniyosha daniruwots bogalotse beyiru keewotsna noganoke daatset yootsi geenzindi k'ac' wotsn boindituwok'o woshi (k'aci)

Ariya:- A/ jako, shbo kishi indo kishi jabo de'e r k'aat' otse beyiru i'arap'e sona maskotiyona. fingshona k'aati eed'ona bgawnona boidituwok wosha.

Bi/ Taawdani masafu jametsots zizron indon bo'indituwok'o k'ala ernidaniruwots bomas'afo ambts ind bwoto bokewitu wok'o wosha. Bo'aniyo bk'oshiyala jametsi kishiindo btalerawok'o keewo geyituwe. erni ari eed' indi k'ac'o durdets bwotok'kewi.

Ariya :- metra

TATSONAT K'OORONA

Daniruwots tookhoanitsi dano egetosh bgeyiruwok'o danbodek'o danosha haniyedashtsank'on aata.

Ariya:-

- Jam daniruwots eed'o ambts ind bwotoaati (botohi indon) indeyor.
- Ik irsasi eed'o zzron ambtse? eraata
- Bi'ats beyeyiru womberi eed'o ambtsind bwoto indar bokewish wosha.
- Yootsi (shini) eed' tatsi k'ac' wotsi bokewish woshi.

Ariya:- * kishi inda, joka, zizra - - - -

1.7. GUUP (JAM) JERWERA (4 perediya)

K'os' Jama:-

Daniruwots k'ot'k iko danbok'riye okona :-

- 1oolo boborfetso beyiru s'een taawotsi dabo dande k'etuno.
- 1oolo boborfetso beyiru s'een taawotsi k'a'o dandek'etuno.
- íoolo boborfetso beyiru s'een taawi ket dabi aap'i problemiyotsi fiinituno.
- 1oolo boborfetso beyiru s'een taawots ket k'awi aap'iproblemiyotsi fiinituno.

DANIYIRUWO FIINA

Haniye shin daniru wets k'otokhan bodantsotsna jaman k'at'anitse egetosh (beshiyosh) geyeru shap kewotsi k'aat'otse tizr bokee wetuwok'o wosheyiye okana bodanimas'afate beyiru terwerotsi bofinituwok'o woshni bofiinosh (aniyosha) ari aniyo imrni bodafta rats k'o'o bode k'e tuwok'o wosha.

TATSONAT K'OORONA

- moonat k'aat' fiino imr bofiino s'iila.
- bofiino arb wotok'o bokewish aata.
- daniruwotsitse k'atswots tuwr ak' marats aatotsi bofiinituwok'o wosha. erni bofiinoshaari aniyo ima.

K'OT'Ok GIITA

2. BALO (100) BOBORFETSO BEYIRU S'EEN TAAWOTSI

AYIYONAT KA'I YONA (60- perediya)

Danhan k'os'wotsi :- daniruwets danhan danbok'riyeokna

- loolo (Balo) bborfetso beyiru s’een taawotsi ik fideli yets s’een taawotsn ayiyituno.
- loolo (balo) bborfetsobeyiru s’eentaawotsiik fideli yets taawotsn ka’ituno (kayituno)
- loolo bborfetso beyiru s’een taawotsiayi yonat ka’iyi jageyo keewituno
- loolo boborfetso beyiru s’een taawotsia ayiy ket aap’iproblemiyo fiinituno.
- loolo bobor fets beyiru s’een taawotsi ka’iyi ketap’i problemyotsi fiinituno.
- Aatotsiniyirniyiron eegosh bowettsok’okeewfets fiinituno
- wonawoneyiruwotsi fiinituno de’er aatotsi fiin dano danetuno.

DANAAYIY K’AC’A

- karewotsi
- ayiyi jandwotsi
- kayiyi jandwotsi
- flesh kardiya
- abake siya

DANTYIRUWO FIINA

Daniruwots haniye shin 20 bborfetso beyiru s’een taawotsi ayiyonat kayiyon ikl-k’aat’otse bodantso tsna shuuts anars’iilk iwishi. Hanatse anar ni doo bborfetso beyiru s’een taawotsi ik fideli yets s’een taawon kayiyonat ayiy malawotsi danayiyi k’ac’o de’er bodane tuwok’o woshi. wanatsna terwerotsibofiinish kup’iyi. Hanor aap’iproblemi motts aatotsna awk’o k’alde’e bobitsetuwok’o (bofiinituwok’o) tewreriya.

2.1. 100 BOBORFETSO BEYIRU S’EEN TAAWOTSI ‘2’ nat 10n AYYONAT KAYIYONA (8 kaat’wora)

k'os'wotsi:- daniruwotsi danhan bo'ishiye okona:-

- 20 boborfetso beyiru s'een taawotsi "2"n ayiytuno.
- Taawi ayiyi milkituwotsi (cirotsi) danetuno /dek'etuno.
- Ayiruwotsznat ayiyi k'awuntso eeg bwoto keewituno.
- 20 boborfetso beyiru s'een taawotsi "2"n kayiyiétuno.
- Taawi k'ayiyi kirotsi fiinituno.
- Kayiruwona kayiyiruwona bbanona (bodetuwona) etiru wots eg bowotok'o kewituno.
- Ayiyonat ko'ayiyi jageyo keewituno.
- Kayiyit bodatstsona (bbanona) ariyituno.

DANIYIRUWO FIINA

A/ SHINI K'ANA

Daniyiruwo k'aat'ots kind ftsere fiini haniye dashikewanotsi t'iiwintsdek'o bígeyituwe.

Tookan daniyiftsere shini 20 bborfetso beyiru s'een taawotsi "2" nat "10" ayiyonat kayiyon bodantsona shuuts aror s'ilk'obo mas'afatsebryiru taawotsats shengsh k'ande'e t'iinogeyitu we.

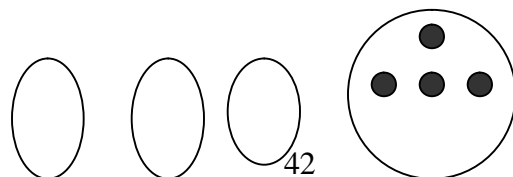
DANAYIY K'AC'WOTSI K'ANIYA

- Ariya:-
- karewosh ka'ik'rets (k'aat'ets) rectangle kordiyotsi
 - ayiyi jaandwotsi
 - k'ayiyi jaandwotsi

Bi/ DANONAT DANIYI AMATSE DANT'IINTIINA

Daniruwots haniye shin 20 bborfetso beyitu s'een taawotsi '2' nat "10" oyiyonat kayiyon bodantso tsna shuuts anar s'iiloshi shenger s'een taawotsi daba etiruwotse tuwr bodane tuwok'o tewr wona geyituwa.

Ariya:-



$$\begin{array}{cccc}
 \bullet & \bullet & \bullet & \bullet \\
 \bullet & \bullet & \bullet & \bullet \\
 2 & + & 2 & 2 & = & 6
 \end{array}$$

Danbi t'iintsets ariyank'o ntuwurni shirt shutswotsi keezoko gerni dabi tanwotsi de'er $2+2+2=6$ etiruwo ambts giitotsi bdetstsok'o daniruwotsi aatuwe. Erni keezotigit bwoto ak'morats k'oor (gudr) daniruwotssh kiitso geyituwe. Hanora ayiy k'op'oni (guut'oni) 3×2 bwotok'o kiitsr aatotsi niyirniiron de'er bodanetuwok'o wosho geyituwe. Erni bodanimas'afatse beyiru terweri aatikona k'aat'otse bofiinituwok'o weshrni bofiinosha ari aniyo im. Haneg etosh bgeyiruwok'o bodaniye okona k'osh tooko daniyo faletuwe. Hanora ayiyonat kayiyi s'ageyo ak'marats k'oor (guu'r) haniye dashtsank'o keewo geyituwe.

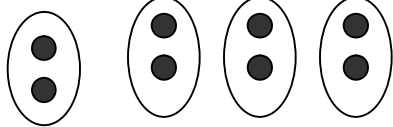
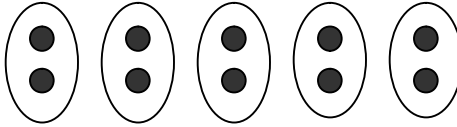
Ariya:- A/ $7+7+7=21$ Bi/ $4+4+8$
 $3 \times 7 = 21$ $2 \times 4 = 8$

Hank'o er daniyeyiye okona terwergito bofiinitu wok'o wosha.

2.1.1. S'EEN TAAWOTSI '2' nat '10'n AYIYA

A/ SEEN TAAWOTSI '2' AYIYA

Seentaawotsi '2'n ayiya etiruwo haniye shin bodantso tsna and ani shuuts anar s'iiogeyituwe. Hanora dabi tanwotsi de'erni kiitso geyituwe.

Ariya:- A/  Bi/ 

Awdoti gita uutsote

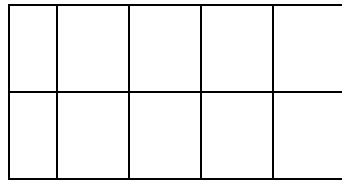
$4 \times 2 = 2+2+2+2$ $2+2+2+2+2=5 \times 2$

Hanank’o aatotsi de’er ak’maratsniyir niyiron kiitsi etni k’aniyets danaayiyi k’aca’ wotsi /karewosh/ karewok’o kayiyets rectanglikardiyotsi ayiyi jaandwotsi de’erni haniye dashtsank’on kiitsi.

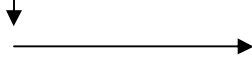
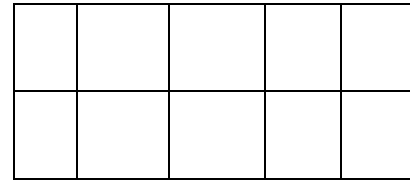
Airya:

Dashana

A/



Bi



naik’omanda

Rectanpliyanitse ambts karewots bobeyek’o danosha haniye shini nodantsok’ona jamtaawo dano faletuwe. Eshna daniru wots ambts karewots bobeyiruwok’o ak’marats k’o’or aatrni b́ k’awuntso dashanonat nal k’omandan beyiru karewotsiayo ayiyir danofaletuwok’o kiitso geyituwe.

A/ Girmano = 5 kareno

Bi/ girnano = 6 kareno

dashan = 2 kareno

dashan = 2 kareno

eshna 2 toti 5 = 10

eshna 2 toti 6 = 12

$2 \times 5 = 10$

$2 \times 6 = 12$

Erni aniani daniyir bodanetuwok’o wosho geyituwe anni ‘2’ ayiyi jando ak’marats k’o’orni (gud’rni) shegsh danbodek’etuwok’o kiitso geyituwe.

Ariya:-

x	0	2	3	4
2	0	4	6	8

Danbi t’iintsets ariyank’ona daniruwo ts aniani bodane tuwok’o woshrn “Ayiruwotsn” etiruwo egbwo tok’o t’iwints bodeke etuwok’o wosha.

Ariya:- A/ $2 \times 3 = 6$ eshna 2 nat 3 na 6 t imosh ayiruwotsi 6 nmo '2' nat '3'zi aya er kiitsa. Hanora taawotsna fiide liyonat taawon bok'op'etuwok'o (bogut'etuwok'o) wosho geyituwe.

$2 \times 3 = 6$ Wokin gitoti keezo shirta bwotit

$3 \times 2 = 6$ Wokin keezoti gito shirta bwotit

Ernidanbodek'etuwok'o wosha. Anni bomas'afatsi terwer keezi aatotsi moonat k'aat'i fiinona erni nimiye okona k'aat'otse keeweyarni (shiyeyarni) bofiinosh arianiyoimrni shegsh bodoftarats k'o'obodek'e tuwok'o s'iilogeyituwe.

Bi/ S'EENTAAWOTSI '10'n AYIYA

Ikik jindon tats tats daniruwotsi keez jindon 30 daniruwots boedituwok'o woshr ambts nana'o (daniruwots) boed'iruwok'o atr ndaniyiye okona daniruwots 30 er bo'aniyora haniye dash tsank'on ak' marats k'o'e (guud'e)

$$3 \times 10 = 30$$

Haniye anarni hannaron (hank'on) awud jindon, uutsjindona er k'aat'otse bokeeweyiye okona s'een taawotsi '10'n ayiya etoni s'een taawotsats ik zero dabaet b'awoto keewogeyituwe.

$$4 \times 10 = 40$$

$$5 \times 10 = 50$$

Danbi keewetsank'ona shiyeyarni "Ayiruwots" nat 'Ayona' eto et b'awotok'o daniru wots bokeewituwok'o wosho geyituwe.

Ariya:- $2 \times 10 = 20$ * 20ni 2nat 10 tsiaya

* 2 nat 10na 20 ayiyiruwotsi

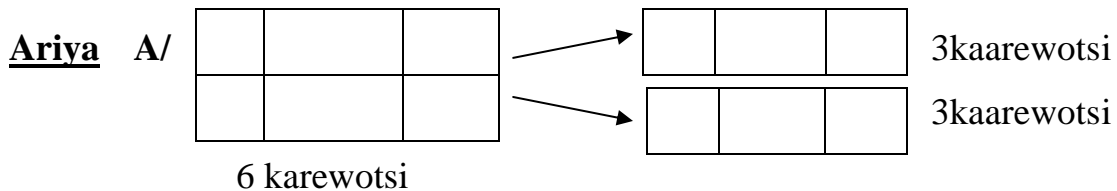
Er bitsbits keeweyiye okona daniruwots mas'afatse beyiruterwer 4 maa fiinonat k'aat'i fiinona er kaide'e bofiinituwok'o woshni bofiinaronan k'aat'otse s'iilo geyituwe.

2.1.2. S'EEN TAAWOTSI '2' nat 10 tson KAYIYA

A/ S'EEN TAAWOTSI '2' sh KAIYA

S'een taawotsi o'2'sh ka'iya etiruwo haniyesh bodan tso tsna daniruwotsitse 10ts nana'o tizni giitoko taalo kayar boed'ituwok'o woshni ambts ambtsn giitosh boka'itsok'o aati. Hanatse anarni taawi s'een matsi keewona ak'maraats guud'rni boaniyituwok'o wosho geyituwe.

Ariya:- $10 \div 2 = 5$ hanora “ \div ” han kaiyi mkit b'wotok'o daniyosha daniruwotssh goo imr aato geyituwe kindk'o danbtsi weran it keeweyiye okona dan ayiyi k'ac' wotsi (karedetsts rektangli kardiyotsi kaiyi jaand wotsi) de'er haniye dashtsank'o kiitsi.



6 kaarewotsi gitoko taaiide'e kaiyiya. Gitoke ambts kaarewots bobeyiruwok'o daniruwotsi aati. Maniye okona danbi kiotsets armank'ona ak' marats gud'rni /k'oorni/ kiitso geyituwe. Hanuwe $6 \div 2 = 3$ etiru taawi s'eenmatsi keewo bwotok'o beewuwe. Erni “ \div ” n kaiyi mikit bwotok'o daniruwotsi aatr danbo deketuwok'o woshi.

Hannaronan k'osh aatotsi niyirniyiron de'er boterweriye okona arbwet keewiruwo egbwotok'o bodanetu wok'o wosha.

Ariya: $12 \div 2 = 6$ hanbwottsoni $2 \times 6 = 12$ bwottsosha

Hanank'o aatotsi kayiyir bodaniye okona bodatsts (aniyosha) arb'woto danosha aiyode'erdano falituno. Hanton deshede'e rni ka'iyi s'een matsi keewotsna ka'iru wona, ka'iyiruwona. bbanona (bodetuwona) etiruwona bodagotse beyiru jageyo ikats keewo geyituwe.

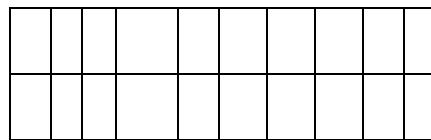
Ariya: $20 \div 2 = 10$ 20 ka'iruwoni 2 kaiyiruwoni
10 b'ok'obana.

Jamana danbi keewets ariyimano tsk'ona bodanetu wok'o wosheyiye okona bomas'afatse beyiru terwer 5 tsatse aatotsi maafiinonats k'aat'i fiinona er bofiinitu wok'o wosho geyituwe.

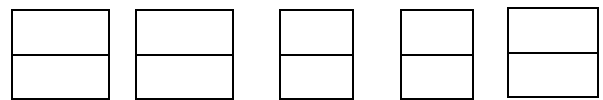
Bi/ 10 tsosh kayiya

S'een taawotsi 10 tsosh kayiya etiruwo daniyosha kaare wotside'er kiitso geyituwe.

Ariya-



20



$20 \div 10 = 2$

Tatson (10) ayits s'een taawotsi tatsosh (10) kayiyewera ambts b bodetuwok'o danosha s'een taawotsitsna ik zero t'afik'rar datso faletuwok'o keewa.

Ariya: A/ $30 \div 10 = 3$ Bi/ $40 \div 10 = 4$

Haniye okona bo danimas'afatse beyiru terwer 6 aatotsi bofiinituwok'o wosho geyituwe.

TATSONAT K'OORONA

Daniruwots danhan danbode k'tsok'o danosha haniye dash tsank'on s'iilogeyituwe.

- 20 bborfetso beyiru s'een taawotsi '2'n boayiyi tuwok'o aata.

Ariya:- A/ 7x2 = _____ Bi/ 8x2 = _____

- ‘20’ bborfetso beyiru s’een taawotsi ‘10’ n boayirituwok’o wosha.

Ariya:- A/ 10x1 = _____ Bi10x2 = _____

- ‘20’ bborfetso beyiru s’een taawotsi ‘10’ sh bo’kayiyituwok’o aata.

Ariya:- 50 ~~÷~~ 10 = _____

- jamona ‘20’ bborfetso beyiru s’een taawotsi ‘2’ nat ‘10’ n ayiyonat kayiyon bodanetuwok’o ayiwerindo n s’iila.

Ariya:-

- ma’a’ fiinon.

- k’aat’ fiinon.

- k’aat’otse aateyiru aatotssh bo’imiru aaniyon

2.2. S’EEN TAAWOTSI 3n, 4n, 5n, 1nat On AYIYONAT

S’EEN TAAWOTSI 3n, 4n, 5nat 1n KAYIYA (22 perediya)

DANHNA K’OTSWOTSI:- Daniruwots handan bokriye okona:-

- ‘3’ n ayiyi aatotsi fiinituno.
- ‘3’ n kayiyi aatotsi fiinituno.
- keezkisha etiruwonat keezla etiruwon keewo falituno.
- ‘3’ z ayotsi keewituno.
- ayiytano dabitanats bdetsts bad’iyi deyo keewituno.
- 4n ayiyi aatotsi fiinituno.
- 4n kaiyi aatotsi fiinituno.
- awdkishonat awdlona etiruwotsi keewituno.
- awd ayotsi keewituno.
- ‘5’ n ayiyi aatotsi fiinituno.
- ‘5’ n kaiyi aatotsi fiinituno.
- uuts kishonat uutslona etiruwotsi danetuno.

- qnat 1 ti ayiyi doyotsi keewituno.
- ‘1’ ti kayiyi doyotsi keewituno.

DANIYIRUWO FIINA

A/ SHINI K’ANA

Daniyiruwo k’aat’ots daniyosh b’akind ftsere shini haniye dashi keewanotsi fiindek’o (k’andek’o) b’igeiyuwe.

- Tookhan daniyiftsere haniye shin s’een taawotsi ‘2’ n ayiya etiruwo bodantsotsna tuwosh bshe ngisha aatotsi k’anide’erni honitse (tookanitse) beyiru keewotsats shengsh k’ande’erni terwerotsi fiinde’e t’iintso geyituwe.

DANAAYIY K’AC K’ANIYA

Ariya:-

- flesh kardiya
- ayiy jaanda
- kayiyi jaanda
- kare wok’o kayik’rets rektan gliya (rektangliya)

Bi/ DANONAT DANIYI AMATSE DAN TIIN T’IINA

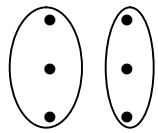
Haniye shin daniruwo ‘20’ boborfetso beyiru s’een taawo tsi ‘2’ nat ‘10’ n ayiyonat kayiyon bodan dek’ tsotsn. Hanatse tuwurni ‘100’ boborfetso beyiru s’een taawotsi.

3n, 4n, 5nat On ayiyonat 3n, 4n, 5nat 1kon kayiyo haniye dashi t’iintsetsok’on kiitso faletuwe.

S’EEN TAAWOTSI 3n, 4n, 5n, 1n AYIYONAT KA’IYONA

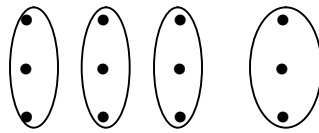
A/ 3n AYIYONAT KAYIYONA

3n Ayiya:- Haniye shin s'een taawotsi '2n' ayiya etiruwo giit keewotsi /shutswotsi) ikok matsr dabi tanon ayiyomants kinda etiruwo dek'o geyituwe.



gitoti keeza

$$2 \times 3 = 3 + 3$$

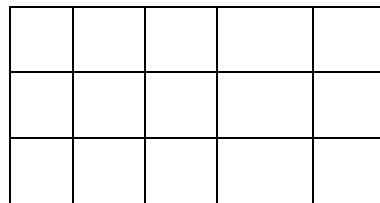


awudeti keeza

$$4 \times 3 = 3 + 3 + 3 + 3$$

Hanank'o aatotsi de'er niyir niyiron ak' marats k'o'or kiitsa. Erni kare wosh kayik'rek rektangliyotsi k'anide'erni (ak'marats k'o'orni) haniyedashts ank'on kiitso geyituwe.

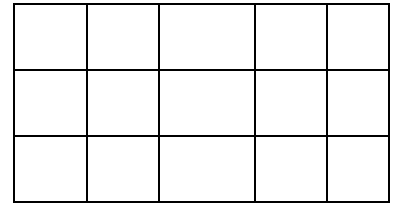
Ariya: A/



$$5 + 5 + 5 = 3 \times 5$$

= 15 kaarewotsi

Bi/



$$6 + 6 + 6 = 3 \times 6$$

= 18 kaarewotsi

Daniruwo wotsi kaarewets ambts bowotok'o aatr botaawo dabonat ayiyi tan wotsi de'er bokeewi tuwo k'o wosho geyituwe.

Ariya:- A/ shirotsa 15 kareuwots faane er bo'aan yish k'upiyi erni $5 + 5 + 5 = 3 \times 5$ han ambtsoti uuts bwotok'o nat 'Bi' shiretse ambts kaare wets bobeyok'o dabonat ayiyita nwotsi de'er boke ewituwok'o wosho geyituwe.

Hanatse anarni k'osh aatotsi '3' mec'ron ayiyirni niyirniyiron de'er "ambtsote" etirowo daniruwo ts taawonat fideliyon bok'o p'etuwok'o wosha. Erni terwer 7tse beyiru aatotsi mo'o'nat k'aat' fiinona er ka'ide'e imrnibofiinituwok'o wosha. Hanora k'aat'otse daniruwo ts botokon ak' marats keyer bofiinitu wok'o wosha. Dambi keewe tsangsh danbode

k'etuwok'o woshasha keez ayotsi (keezon) ayitsotsi danbodek'etuwok'o wosho geyituwe.

Ariya 1 $3 \times 2 = 6$ Eshna keezon ayits 6 eteyala

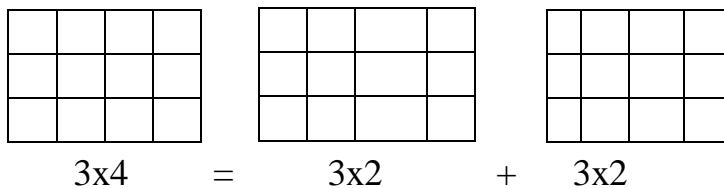
$$3 \times 2 = 6 \text{ bwottsosha er kiitsi}$$

Ariya 2 3, 3+3, 3+3+3, 3+3+3+3 -----

$$3, 6, 9, 12, 15 \text{ -----}$$

Hank'on bodaniye okona noononat (aap'onat) k'op'on bodare tuwo k'o woshni terwer 8 tsi aatotsi bofiinituwok'o wosha, Hanno s'een taawotsi '3'n ayiyo bofaliye akona aap'i problemiyotsi awk'o bofiinituwok'onat awk'o botanituwok'on kiitso geyiyituwe. Han wor bomas'afatse beyiruter wer '9' bofiinituwok'o woshr shengsh bodaftarats k'oobode k'etuwok'o wosho geyituwe. ayiyitano dab tanats bad'iyi deyo haniye dashtsank'on ak'marats kiitsa.

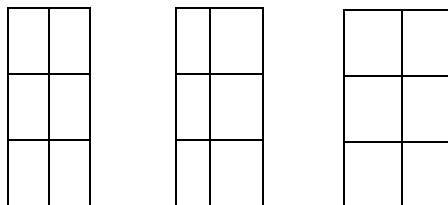
Ariya :- $3 \times 4 = 12$



$$\text{Eeshna } 3 \times 4 = 3 \times 2 + 3 \times 2$$

$$= 3 \times (2+2) \text{ Eegshe } 2+2 = 4$$

Bi/ $3 \times 2 = 6$



$$3 \times 2 = 3 \times 1 + 3 \times 1$$

$$\text{Eeshna } 3 \times 2 = 3 \times 1 + 3 \times 1$$

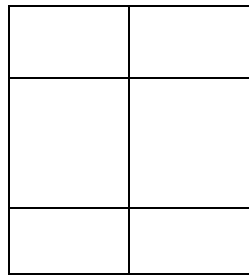
$$= 3 \times (1+1) \text{ egnoshe } 1+1 = 2$$

Hanank’o aatotsi kaarewotsi de’e r kiitsa. Erniterwer 10tse beyiru aatotsna ma’a’ fiinonat k’oat’ fiinona er bofiinituwoko washi .Hanora kep’o eg bwotok’o shen gsh keewo geyituwe.

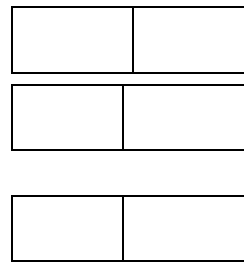
“3”n KAYIYA

S’een taawotsi ‘2’n kayiya etiruwotse tuwrni keewe rarni s’een taawotsi “3”n kayiya etiruwona kaarewoshe ka’ik’ rets rektangliyo ak’marats k’o’o rni haniye dashi t’iin sank’on daniyo geyituwe.

Ariya:-



6 kareya



$6 \div 3 = 2$

Rektangliyotse beyiru kaare wots ayo danosha haniye shini keewetso k’ona $3 \times 2 = 6$ kaarewots bobeyok’o keewrni (aatrni) taalo keezoko noka’iyal bojamets ambts kaare bodetse tuwok’o aata.

$6 \div 3 = 2$ kaarewotsi nodatsituwok’o kiitsrni k’osh k’osh rektanpliwootsi kaarewosh keezosh talo kaiyirni 3’n keyiyo tewrerituno.

Hanatsna ‘3’sh kaiyonat ‘3’n ayiyi tanwots jagewotsi ariyon kiitsa

Ariya:- $6 \div 3 = \square$ etiru s’een matsikeew bbano datsosha 3 nton ayarni ‘15’ imet taawogeya Taawu mani 5. Hanko weron k’osh ariyotsi de’er botarweriye okona bbano ar bwoto ayiy tanon ariyo fale tuwe.

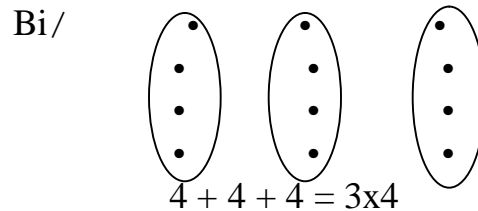
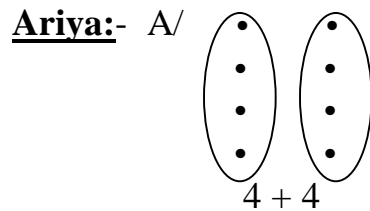
Ariya:- $9 \div 3 = 3$ egoshe $3 \times 3 = 9$

Hank’ona k’osh k’osh aatotsnat terwer 11 tse beyiru aatotsi moonat k’aat’ fiinonaer kaide’e imr bofiinituwok’o washogeyituwe. Erni ketket aap’i problemiyots bobitsetuwok’o (bofiinituwok’o) malo kiitsr bofiinituwok’o wosho geyituwe.

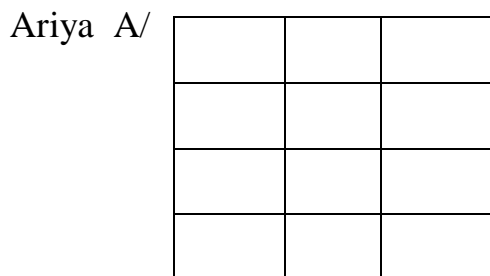
Bi/ S'EEN TAAWOTSI '4'n AYYONAT KAYIYONA 4n

AYIYA

Tookhaniyere shini bodants s'een taawotsi '3'n aayiya etiruwo awk'o fiinetuwok'o ak' marats k'oor kiitsa.

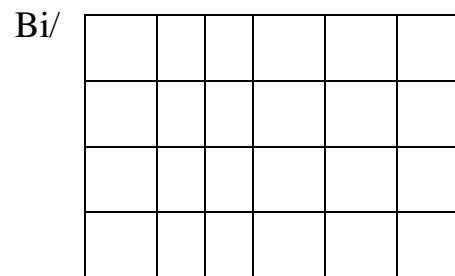


Danbi t'iintsets ariyan k'ona awd shuts wotsi ikok gerni ambts awdwots faano? etiruwotizrnidaniruwots boterwerituwok'o goo imogeyiyituwe. Erni kaarewok'o keyik'rets rektangliyo ak'marats k'oor haniye dashtsank'o kiitso geyituwe.



$$4+4+4 = 3 \times 4$$

$$= 12 \text{ kaarewotsi}$$



$$4+4+4+4+4+4$$

$$= 6 \times 4 = 24$$

Dambi keewets (kitsets) ariyank'ona k'osh k'osh kaarewotsi awdoko kaiyek rektangliyo de'er ambts kaarewots bobeyiruwok'o aatrni daniruwots k'aa t'otse bokeewetuwok'o washrni dabonat ayiyi tanwotsn bokeewituwok'o woshi hanora bo'aniyo fideliyonat taawon bwoto k'o s'iilarni terwer 13 tse beyiru aatotsi mo'o'nat k'a'at' fiinon kaide'e imrni ari'aniyo imo geyituwe.

Daniruwotsi s'een taawotsi '4'n ayiy bofalona jaandots botokon niyirniyiron tuwur bos'eentsituwok'o washi.

Ariya:-

x	0	1	2	3	4	5
4	0	4	8	12	16	20

Danbikeewetsank'on daniruwots danbodek'iyе okona s'een taawotsi '4' ayiya etoni iktaawo '4' ton bayor bime tuwo aya (ayika) et bwoto keewo geyituwe.

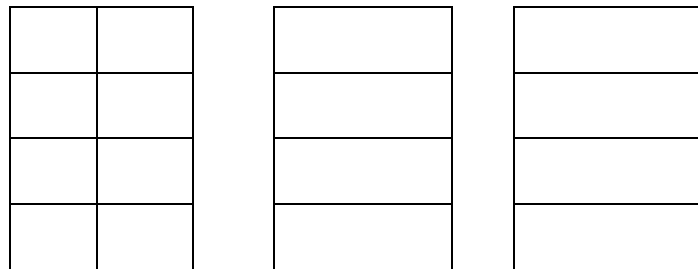
Ariya:- A/ $4 \times 8 = 32$ eshna 32ni 4d aya (ayka)

Bi/ $4 \times 6 = 24$ eshna 2 4 ni 4 don ayika (aya)'

Hanank'o aatotsi tizrni aya (4dan ayitso) etiruwo daniru wots egb'owotok'o keewr '4'n ayitso (ayo) danbi jaan dotes imets ariyon kiitsetso k'o keewi. Haniye okona bonas'afatse beyiru terwer 14 tsi aatotsi befiinituwok'o. woshrni aap'i problemiyotsna awk'o botanituwok'o daniyo geyituwe.

Ayiytano dabitanats bad'iyidoyo ak' moratskaarewotsi k'oor haniye dashtsank'on kiitso faletuwe.

Ariya:- A/



$$2 \times 4 = 1 \times 4 + 1 \times 4$$

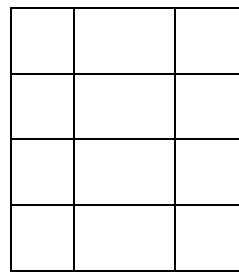
Eshna $4 \times 2 = 4 \times 1 + 4 \times 1$

$$= 4 (1+1)$$

$$\text{Eegoshe } 1+1 = 2$$

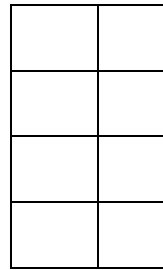


Bi/



4x3

=



4x2

+ 4x1



Eshna $4 \times 3 = 4 \times 2 + 4 \times 1$

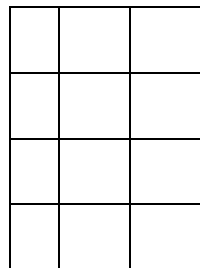
= 4 (2+1) Eegoshe 2+1 =3

Hanan k'o aatatsi daniruwots bofiiniye okona bomas'afatse terwer15tse beyiru aatotsi maafiinonot k'aat' fiinona er kayide'e imrni k'aat'otse bokeewerna bo' aniyosha ari aaniyo imrni shengsh bo dafta rats k'o'o (gud') bode k'etu wok'o weshe geyituwe.

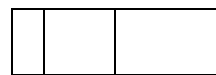
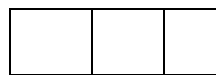
Haniye shini bodantso '3'sh kayiya etiruwatse tuwr s'een taawetsi '4'sh kayiya etiruwo haniyedashi t'iintsetsank'on kiitsi.

Ariya:-

A/



12



12 \div 4



= 3

Rektangliyotse beyiru kaare wots 12 bowoto daniruwotsi aatr boaniyituwok'o woshi. Etoni $3 \times 4 = 12$ er bokee wituwok'o woshi. Hank'ona 12 kaarewotsi taalo awudoko kayiyinok'riyal ambts kaarewots bobeyetuwo k'o daniruwots botokan bokeewituwok'o kup'iya. Mana tsna k'osh s'een taawotsi '4'sh kayiyosha rektangliyotsna kaarewosh kayiyirni ak'marats

fiinarni boda niyeokona '4'n ayiyonat '4'sh kayiyi jageyo ariyon te'ude'e bokeewituwok'o kiitso geyituwe.

Ariya:- A/ $24 \div 4 = 6$, Eegoshe $4 \times 6 = 24$

Bi/ $20 \div 4 = 5$, Eegoshe $4 \times 5 = 20$

Hanank'o aatotsi bofiiniye okona bomas'afatse beyiru tegwer 15 tsi aatotsimaa fiinonat k'aat'otse bokeeweyiye okona arianiyo (doozo) bosh imogeyituwe. Anni aap'i problemyats dandek'o (bodano) enshdek'o bon bgeyituwosha aap'iproblemyetsi awuk'o bofiinituwok'o kiitsrni s'iihogeyituwe.

Ci/ S'EENTAAWOTSI '5'n AYIYONAT KAYIYONA 5n

AYIYA

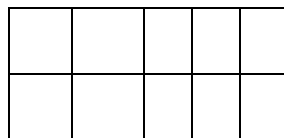
Etiruwo ag bwoto daniyosha kaarewash kayiyik'rets rektangliyo ak'marats k'oorni haniyedashtsank'on kiitso faletuwe.



Ariya:- A/

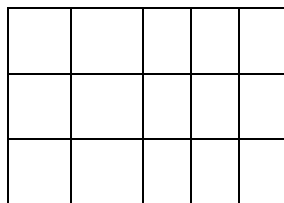
5 kaarewotsi = 1×5 (Iknoti uutsa)

Bi/



$2 \times 5 = 5 + 5$ (giitotiuutsa)

Ci/



$3 \times 5 = 5 + 5 + 5$ (keezotiuutsa)

uuts uuts kaarewotsi niyir niyiron dabrni 1x5 2x5,4x5 --- ko'ordni awuk'o bofiinituwok'o kitsrni hanora fideliyonat taawon keewo bofalituwo k'o woshi

Ariya:- A/ 10x5 = tatsoti uutsa

Bi/ 20x5 = hiyoti uutsa

Hanan k'o keewotsi bodanetuwo'ok'o wosharni terwer 17 tse beyiru aatotsi maafiinonat k'aat' fiinona er kaide'e imni k'aat'otse daniruwo'sniyirniyiron tuwr bofiinitu wok'o woshi.

Haniye okona s'een taawotsi '5'n ayiya etiruwo's daniruwo's daro (dandek'o) ensh bode k'isha, ayiyi jaando doozrni bash bashok botseentsituwo'ok'o woshi.

Ariya:-

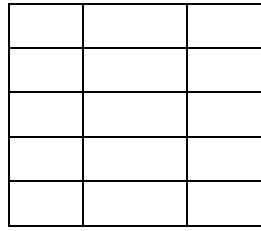
x	7	8	9	10	12	16
5	35	40				

Manton deshide'e rcni '5'tsi ay (5tson aytsoni) wotts s'een taawotsi bokeewituwo'ok'o wosha.

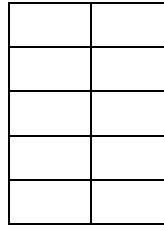
Ariya:- 3x5 = 15 Eshna 15ni 5tsiaya (5tson ayika)

Uutso ambyson noayiyaliya (noayirneya) tatse uutso nodatsietiru aato daniruwo's boaniyituwo'ok'o wosha han bodaniye okona terwer 18 bofiinituwok'o wosho geyituwe. Hanatsna aap'i problemiyatse auuts kasha etiruwo eg b'awotok'o daniyo geyituwe. Ayiy bad'iyi doyo dab tanats etiruwo haniye shin daniruwo's danbode k'tsotsna hannaron boteru rerituwo'ok'o wosha.

Ariya :-

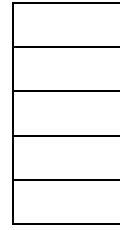


$$5 \times 3 = 15$$



$$5 \times 2$$

+



$$5 \times 1$$

$$5 \times 3 = 5 \times 2 + 5 \times 1$$

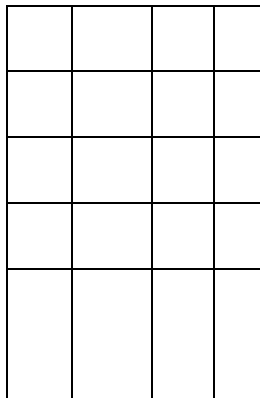
$$= 5(2+1) \text{ Eegoshe } 2+1 = 3$$

Hank'on aatotsiniyirniyiron de'er daniyeyiye okona terwer 19tse beyiru aatotsi ay badiyi doyo awuk'o bo aiyiyituwok'o moonat k'aat' fiinon bofiinituwok'o imogeyituwe.

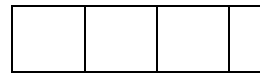
5n KAYIYA

Haniye shin s'een taawotsi 4sh kayiyo awk'o bwoto bodantsotsna, hanatse tuwrni taawotsi 5n sh) awk'otano bofalituwok'o haniye dashi t'iintsetsank'ower kiitso faletuwe. Hanora kaarewok'o kayi k'rets rek tangliyotsi de'er keewo faletuuwe.

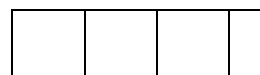
Ariya:-



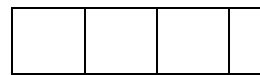
20 kaarewotsi



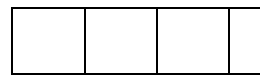
4 kaarewotsi



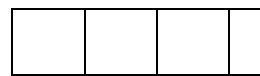
4 kaarewotsi



4 kaarewotsi



4 kaarewotsi



4 kaarewotsi

Rektangliyotse beyitu kaarewots taawo $4 \times 5 = 20$ bwo to k'o daniruwotsi aatr bokeewituwok'o wesha. Eshna 20 kaare wotsi talo uutsoko nokeyiyal bojamets ambts kaarewotsi bodetstsok'o aatrni $20 \div 5 = 4$ etiru kayiye s'een

matsi keewo ak' marats k'o' ora kiitso geyituwe k'oshk'osh s'een taawotsi de'er bodanettuwok'o wosheyiye okona kayiyit bodatsts k'awunts (bbana) ar b'awotonat ar wot b'ek'azon danosha ayiy tanode'er awuk'o ariyo bofalityuwok'o aatr daniyo geyituwe.

Ariya:- A/ $60 \div 5 = 12$, hanbwottso $12 \times 5 = 60$

Bi/ $100 \div 5 = 20$, hanbwottsoni $20 \times 5 = 100$

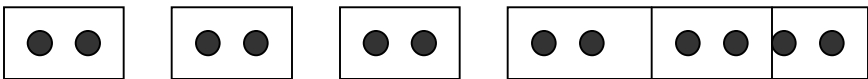
Manatsna terwer 20tse beyiru aatotsi k'oat'otse bofii nituwok'o wosho geyituwe. Mandambatsa kayiyi aap'I probremiyots fiino (awk'o bofiinetuwok'o) "uutsla" etiruman eg bwotok'o keewurni $1/5$ (Ikiuutsla) et bwotok'o aap'on (nonon) danbodek'e tauok'o wosha.

Di/ S'EEN TAAWOTSI 1 NAT ZEERON AYIYONAT

KAIYONA S'EEN TAAWOTSI 1 NAT ZEERON AYIYA

Keezrektan gliwotsi ak' marats k'o' orni bojamets its (bojam rektangliyotsits giit shutswotsi woyin cookiyi shaogtsi bits k'oord daniruwotssh kiitsa keez rektangliyotsitse beyiru shutswots taawo amtse ? etiru aato $3 \times 2 = 6$ etiru aaniyo im. Egoshe '2'n ayiya etiruwo bodantsotsna.

Jamrektargliyotsitse beyiru shutswotsi k'ubayi ambts shutswots bobeyiruwok'o aatr (basha woyino zeerowa) keez rektangliyo tsetse beyiru shutswots dabo $0+0+0 = 0$ hani $30 \times 0 =$ (keezoti zeerowa) Hankona k'osh rektangliyotside'er 0×0 etiruwatse tuwur 10×0 bborfetso beyiruwotsi fiinar zeero ayiya eto eg et bwotok'o daniya.

Ariya:- A/ 

2 shuts wetsi wotsi 2 shuts wotsi 2 shuts wotsi 3x2 shurswotsi

$$Bi/ \quad \boxed{} \quad + \quad \boxed{} \quad + \quad \boxed{} \quad + \quad \boxed{} = 0$$

K'osh k'osh ariyotsi bodaniye tuwok'o woshiyeyiye okona guupo geyituwe.

Ariya:- A/ $5x0 = 0$ Di/ $60x0 = 0$
 Bi/ $6x0 = 0$ E/ $90x0 = 0$
 Ci/ $10x0 = 0$

Eeshna jam s'een taawots On (zeeron) ayiyewora b' k'awuntso keni b'wotiyalor zero b'wokok'o bobodetuwok'o woshogeyituwe.

Dambi keewetsok'ona (ariyok'ona bodanimas'afa tse beyiru terwer 21 k'aat'otse bofiinituwok'o woshi

1n AYIYA

2 tse tuwer 5 tso bborfetso beyiru taawotsi ayiyi jaando ak'marats haniyedashtsok'o kiitso geyituwe.

Ariya:-

x	1	2	3
2	2	4	6
3	3	6	9
4	4	8	12
5	5	10	15

Eshna $2x1 = 2$, $3x1 = 3$, $4x1 = 4$, $5x1 = 5$ etiruwo daniruwots jaandotse s'illar lookeewituwok'o wosha hank'ona 61, $7x1$, $1x6$ ---- hanank'o 1 ki ayotsi ariyon k'aat'otse fiinar bokeewyiokona datsets k'awuntswotsatse tuwur haniyedashi guupo bodanetuwok'o wosha.

Taawjamo 1n b'ayera bk'awuntso taawman btokoni bwotiti (bwoto) daniruwots bokeewituwok'o kup'iya erni bomas'afatse trewer 22 tse beyiru aatotsi k'aat'o nat maafiinon befiinituwok'o weshr shegsh boda ftarats guud bode k'o s'iilo geyituwe.

S'EEN TAAWOTSI 1sh KAYIYA:-

Haniye shin daniruwots s'een taawotsi 2n,3n,4n,5n kayiyo bodantsotsna hanatse tuwr bokeewetuwo k'o wosho geyituwe.

Ariya :- A/ 8↪2 etoni shuumt keewotsi giitosh taalo kayiya eta.

Bi/ 9↪3 etoni jeed'i keewotsi keezokotaal kayiya eta.

Eshna 8↪1 etoni shuumto ikosh nokaiyor ambtse ---? 9↪1 eto s'eed'iyoy ikosh nokaiyor ambtse bbode ? er daniruwotsi boaniyituwok'o aata. k'osh hannari ariyetsi aatr ikesh (Ikon) kayiya eto eg bwoto bo dane tuwo k'o weshi. Haniye okena s'een keew s'amo ikosh bka ewora báimet, s'een taawman bwotok'o bodanetuw ok'o washi. Erniterwer 23 fiinar k'aat'otse bokee wetuwok'o (boshiyetuwok'o) wesho geyituwe, 1nat On newo daniruwots bodane tuwok'o s'aando ok'marats l'oor haniye dashtso k'o kiitso faletuwe.

Ariya:- A/

x	5	6	9
0	0	0	0
1	5	6	9

Bi/

↪	1
0	0
20	20
30	30
40	40

Eshna zero jam taawosh (zeeroniye okon) kayiyewora datsetuwo (bbodeti) zeerowa er danbodeketuwo k'o woshi.

Ariya :- $A/0 \approx 5 = 0$

$Bi/0 \approx 9 = 0$

$Ci/0 \approx 4 = 0$

B'wotefere (bwotiyalorni) s'een taaws'amo zero wosh kayiyo) falerawok'o keewo geyituwe.

Ci/ TATSONAT K'OORONA

Daniruwo ts danhan k'os' wotsi bodandek'o s'iilo geyituwe.

- 20 yo bborfetso beyiru s'een taawotsi $2n$ ayiya nat kayiyon bofalituwok'o aati

Ariya:- $A/18 \approx 2 = 9$ kayiruuwo = 18 kayiyiruuwo = 2 bbana
(bodtsoni) = 9

- ayiyonat kayiyi jageyo bokee wituwok'o aata kayiyere bodiruuho ayiyon boariyituwo k'o aata

Ariya:- $A/16 \approx 2 = 8$ hanbweti $8 \times 2 = 16$

- $3n$ ayiyonat kayiyi tanwotsi detsts prob lemiyotsi bofiinituwok'o washa.

Ariya:- $A/30 \approx 3 = \underline{\hspace{2cm}}$ $Bi/10 \times 3 = \underline{\hspace{2cm}}$

- Ayiyi bad'iyi newo dabitanats bofiinitu wok'o wosha.

Aniya:- $A/3 \times 8 = 3(3+5)$

$Bi/3 \times (8+1) = (3 \times 8) + (3 \times 11)$

- $4n$ ayiyinat kayiyyi problemiyotsi bofiinitu wok'o aata.

<u>Ariya:-</u>	A/	u	ux4
		3	
		4	
		5	

Bi/		4
	8	
	12	
	16	

- 4n ayiyonat kayiyi aap'i problemiyotsi bofiinitu wok'o aata 4n ayiyi bad'iyi newo dab tanats bofiini tuwok'o wosh (aata)

Ariya:- $4x(3+2) = (4x3) + (4x2)$
 $= 12 + 8$
 $= 20$

- 5n ayiyonat kayiyyi aatotsi bofiinituwok'o aata

Ariya :- A/ $10x5 = \underline{\hspace{2cm}}$ Bi/ $50 \text{ } \text{ } \text{ } 5 = \underline{\hspace{2cm}}$

- 5n ayiyonat kayiyyi aap'I problemiyotsi bofiini tuwok'o aata
- dabé tanats 5n ayi bad'iyi new bofiinitu wok'o aata (wosha)

Ariya:- $5x(3+2) = (5x3) + (5x2)$
 $= 15 + 10$
 $= 25$

- S'een taw s'amo Onat 1n bayor bimetuwo (datsetuwo) eg (ambts) bəwotok'o daniruwotsi aap'on (nonon) aata.
- '1' nat 'O' newo bokeewituwok'o aata

Jamona haniye daubit'iintsets (keewets) ariyanotsatse tuwrni daniruwors fiinnaronat k'aat'otse bodetsts dano (fiwa) siilrni bodandek'onat bok'azon danofale tuwe. Erni bofiinit fiinonaar bwotok' kiitsr kup'iyo faletuwe.

2.3. SEEN TAAWOTSI 6n, 7n, 8 nat 9n AYIYONAT KAYIYONA (23-perediya)

DNHAN K'OS'WOTSI :- Daniruwots danhan boishtsok'ona

- s'een taawetsi 6ton ayiyituno.
- shartosh (6sh) s'een taawotsi kayiyituno.
- kayiyit bodatsts kawuntso ayiy tanon ariyituno.
- 6ton ayiyonat dabatsi bad'iyitano fiinituno.
- s'een taawotsi 7ton ayiyituno.
- s'een taawotsi 7sh layiyituno.
- 7ton ayiyonat 7 sh kayiyituno.
- s'een taawotsi 8n ayiyituno.
- s'een taawotsi 8sh kayiyituno.
- 8ton ayiyonat kayiyi sageyo keewituno.
- znat 4n ayitsotsi (ayotsi) 8 ayotsnton nokorituno .
- s'een taawotsi 9n kayiyituno.
- s'een taawotsi 9sh kayiyituno.
- 9n ayiyonat 9sh kayiyi jageyo keewituno.
- 3z ayotsi 9 yi ayoynton nokoriyituno.
- ani (botikon) ayiru taawotsi galituno.

DANIYIRUWO FIINA

A/ SHINI K'ANA

Daniyiruwo k'aat'ots kindftsere shini haniye dashi t'iints keewotsi k'andek'o (fiindek'o) geyituwe.

- Tookham daniyiftser shini daniruwots haniye shn ayiyo nat kayiyon bodantsotsna. Kinda sha s'een taawotsi 5n ayiyonat kaiya etiruwats k'esh k'osh aatotsi k'anidee s'iilo geyituwe. Erni

tookhanitse beyiru 6n,7n,8n,9n, ayiyonat kayiyatse beyiruwotsa ts shergsh k'andee aatotsi shengsh fiindee t'iino gryituwe.

DANAAYIY K'AC K'ANIYA

Ariya:-

- ayiyi janda
- koyiyi janda
- kaarewosh kaik'rets rektangliya
- 2 ti ay detsts flesh kardiya
- 3z ay detsts flesh kardiya
- 9yi ay detsts flesh kardiya
- ani (botokon) ayiru s'een taawotsi

Bi/ DANONAT DANIYI AMATSEDAN T'IINT'IINA

Haniyere shin daniruwots s'een taawotsi 2n,3n,4nat,5n ayiyonat kayiyon bodantsotsna shuuts anar s'iil k'o aatotsi k'anide'er bokeewetu wok'o wosha. Hani hanatse weyet tookoman kindosh shengshituwe.

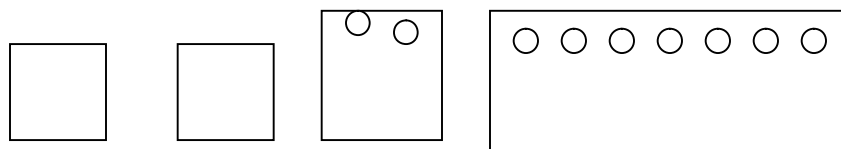
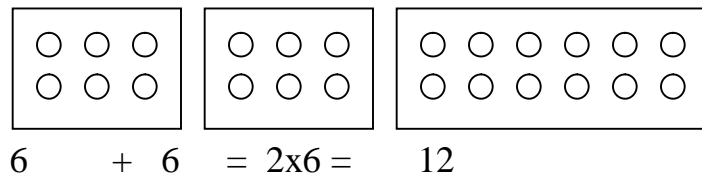
S'een taawotsi 6n,7n,8nat 9n ayiyonat kayiyona bét'intso'ok'on keeweyo geyiruwe.

2.3.1. S'EEN TAAWOTSI 6n AYIYONAT KAYIYONA

A/ 6n AYIYA

shirt shirt gurkotsi detsts rektangliyotsi ak'marats k'o'or kiits.

Ariya:- A/



Bi/ ooo ooo ○ ○ ○ ○ ○ ○ ○ ○ ○ ○
 ooo ooo ○ ○ ○ ○ ○ ○

$$6 + 6 + 6 = 3 \times 6 = 18$$

Danbi keewets ariyi weron jam rektan gliyotsitse 6 gurk'ots bobeyok'o shini keewr kiitsa. Erni git rektangliyotsitse ambts gurkots faano? Eraatr bofiiniyala dabonat ayiyi weron bok'op'e tuwok' daniyirni rektangliyots taawo wonawoniyrni 1x6, 2x6, 3x6, - - - 10x6 beyiru 6t ayotsi dabodatsituwok'o (datso bofalituwok'o) wosha. Haniye bogodanbodek'isha 6ton ayiyi jando de'erni ak' marats kiitsa. Haniye okona terwer 24tsi aatotsi bofiini nituwok'o wosha.

Ariya:- A/

x	1	1	2	3	4	5	6	7	8	9	10
6	0	6	12	18	24	30	36	42	48	54	60

Bi/

A	Ax6
0	0x6 = 0
1	1x6 = 6
2	2x6 = 12

4nat 5n ayiyi haniye shin bodantsotsna etoni $4 \times 6 = (4 \times 2) + (4 \times 4)$, $5 \times 8 = (5 \times 3) + (5 \times 5)$ hanank'o aatotsi kep'o de'er dab tana ts ayiyi bas;I newo fiinar kiitsa erni 6 ton ayiyi dabtanats bos'iyi newo kiitsosha haniye shini bofiints weron bofiinituwo k'o wosha haniye shini bofiints weron bofiinituwo k'o wosha.

Ariya:- $6 \times 15 = 6 \times (10 \times 5)$

$$= 6 \times 10 + (6 \times 5)$$

$$= 60 + 30$$

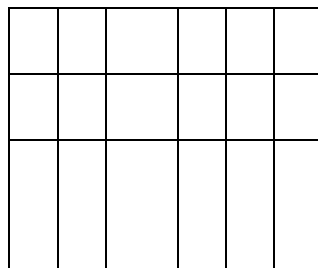
$$= 90$$

Haniye okona bodani mas'afatse beyiruterweratse beyiru aatotsi k'aat'o tse bofiinituwok'o wosheyiye okona boaniyo sh ariaaniyo imr bodafta rats k'oo bodek'e tuwok'o wosho geyituwe. Erni 6ton ayiy aap' problemiyotsi awk'o bofiinetuwok'o kiitsr k'oat'otse bokeewetu wok'o gooimo geyituwe.

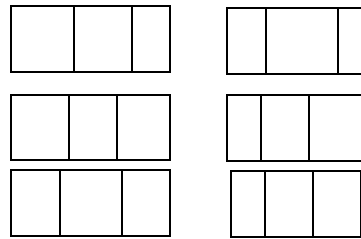
6sh KAYIYA

Haniye shini 5n kayiya etiruwo sh node k' tsok'ona s'een taawetsi 6tosh kayiya etikuwo haniye dashi bt'iin tsok'ona ok' marats k'o'or kiitso geyituwe.

Ariya:- A/

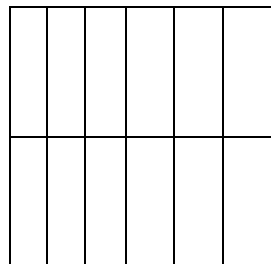


18

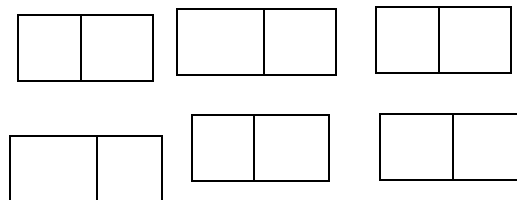


$$18 \div 6 = 3$$

Bi/



12



$$12 \div 6 = 2$$

Da nbe keewets ariyank'on kaarewok'o kayiyik'rets rektongliyotsi de'er kaarewots taawo taalo shirtoko kayiya etiruwo bodanetuwo k'o wosho geyituwe.

Erni b k'awumtso (bbodtso) ar bwotok'o egosh bwottsok'o ak'marats k'o'or kiitsa

Ariya :- $A/18 \div 6 = 3$ hanbwettsoni $3 \times 6 = 18$

$Bi/12 \div 6 = 2$ han bwottsoni $2 \times 6 = 12$

Han bodaniye okona bodoftarats shergsh bok'o'odek'e tuwok'o woshrni haniye bogo bodanisha kayiyi s'ando de'erni kayiyi dano (falo) ensh bodek'etuwok'o kup'yo geyituwe.

Ariya :-

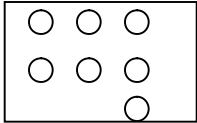
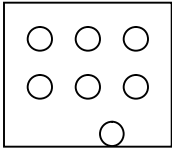
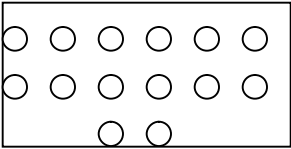
A	$A \div 6$
60	
36	
78	$78 \div 6 = 13$

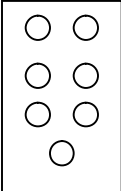
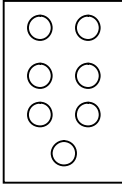
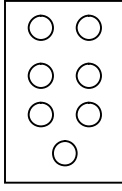
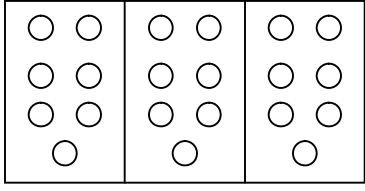
Hanatse anarni bodani mas'afatse beyiruterwero 26 nat aap'I problemiyotsna maafiinonats k'aat' fiinonaer kaide'e imrni k'aat'otse bokeewetuwok'o wosha. Hanora daniruwots niyirniyiron keyer (tawr) ak'marats k'oor boetetuwok'o woshr bofiinosh ar aniyo imr shengsh bodaftarats k'o'o bodek'e tuwok'o wosho geyituwe.

2.3.2. S'EENT AAWOTSI 7n AYIYONAT

KATIYONA (5 perediya)

A/ 7n AYIYA:- Haniyere shin s'een taawotsi 6 ton ayiya etiruwatse rektangliyotse beyiru gurbots ayo (taawo) dabonat bad'iyon bodantsok'owa, andor s'een taawotsi 7sh keyiya etirowona danbi keewetsa tsetuwurni haniye dashi t'iintsetsank'on kiitsa.

Ariya:- A/  +  =  $2 \times 7 = 14$

Bi/  +  +  =  $3 \times 7 = 21$

Ariyank'ona ak' marats k'o'or (gudr) jam rektangliyotsitse 7 gurbokts bobeyok'o shini kiitsrni giltrekta ngliyotsitse ambts gurbokts faano? keez gurko tsetse ambts gurbokts faano? er aatrni daniruwots boaniyituwok'o kup'iya. erni ayiyonat daniweron bok'op'e tuwok'o tewureriya.

Ariya:- A/ $7+7+7 = 3 \times 7$

Bi/ $7+7+7+7 = 4 \times 7$

Hanatse anarni rektangliyotsitse beyiru gurbokts taawo wonawoniyirni $1 \times 7, 2 \times 7, 3 \times 7, 4 \times 7, 6 \times 7, 7 \times 7$ --- beyiru 7t ayotsi datso bofalituwok'o woshirni shengsh dan bode k'e tuwok'o woshirni ani 7tan ayiyi jando de'er ak' marats gud'r kiitsrni terwer 27to maa fin onat k'aat' fiinon bofiinitu wok'o wosha.

Bi/

Ariya: A/

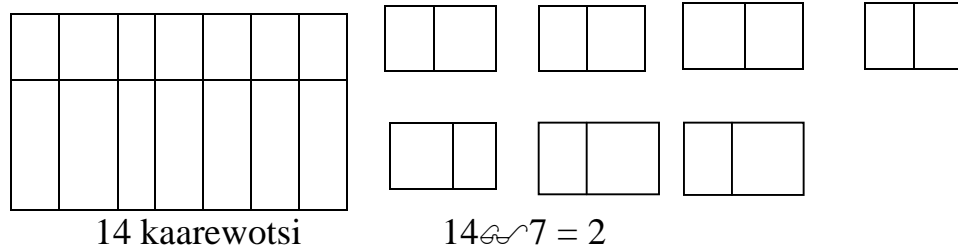
A	$A \times 7$
0	$0 \times 7 = 0$
1	
2	
3	

x	0	1	2	3	4	5	6
7							

Dambi keewets (tiintsets) ariyok'on botewreriye okona daniruwots mas'afatse beyiruter werotsnat aap'I problemiyotsn bofiinituwok'o wosho geyituwe. Haniye okona bofiinosh arwotts aniyo imrni shengsh bodafta kats k'o'obode k'etuwok'o wosha.

Bi/ 7sh KAYIYA:- Haniyere shini 6sh kayiya etiruwo k'on ak'marats k'o'or bodanetuwo'woshi.

Ariya:-



Rektanglimaac'o kaarewosh kayide'erni larewots taawotaalosh 7 tho k'aad'rni kayiya etiruwo bodanetuwo'woshi Eerni bbano arbwoto danosha "Egeshe" etiruwo de'ercni ak'marats haniye dashtsan k'on kiitsa.

Ariya:- A/ $14 \div 7 = 2$ hanbweti $2 \times 7 = 14$

Bi/ $28 \div 7 = 4$ hambweti $4 \times 7 = 28$

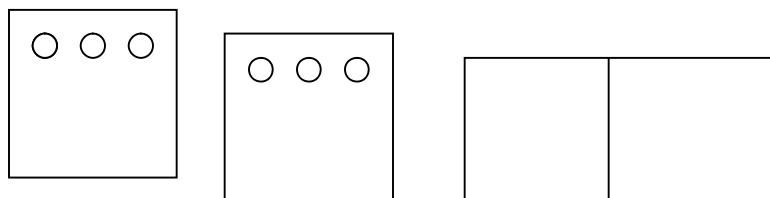
Etiru ayiyonat kayi yonat kayiyi jageyo de'erni "bana" etiruwo ar bwoto daniyo geyituwe. Er daniruwots mas'afatse beyiru terwer 28 nat aap'I problemiyotsn moonat k'aat' fiinon bofiini tuwok'o wosha. bofiinosho ari aniyo imrni shengsh bodaftarats guu' bodek'etuwok'o wosho geyituwe

2.3.3. S'EEN TAAWOTSI 8 ton AYIYONAT KAYTYONA

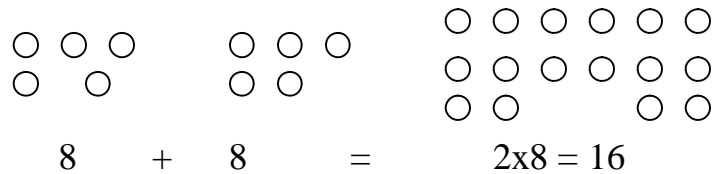
(6 perediya)

A/ S'EEN TAAWOTSI 8n AYIYA

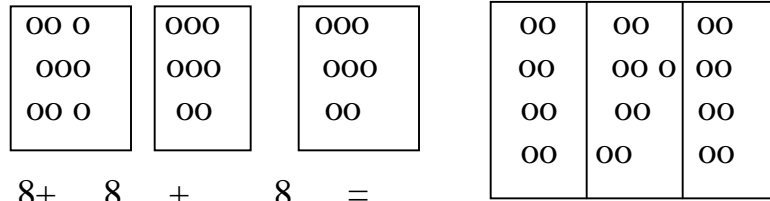
S'een taawotsi 6nat 7n ayiya etiruwo daniye ts weerana (daniyetso k'ona) 8n ayiya etiruwo haniye dash tsan k'on kiitso geyituwe.



Ariya:- A/



Bi/



$3 \times 8 = 24$

Ik rektangliyotse beyiru gurbots taawo danosha etoni 98, 108, etiruwo kiitsosha 80nat 72 t aurbotsi fiino faleraawo tsna aniani dabi malonat jando de'er boffinituwo k'owosho geyituwe. Hanora $8+8 = 2 \times 8$, $8+8+8 = 3 \times 8$ etiruwo ak'marats k'oor kiitsrni ter wero boffinituwok'o wosha. Haniyere okona 8 t ayotsnat 4d ayatsn 2ti ayotsnton bodetstsjageyo ak'marats k'e'or kiitso geyituwe.

Ariya: - A/

x	0	2	3	4	5	6	7	8	9	10
2	0	4	6	8	10	12	14	16	18	20

Bi/

x	0	1	2	3	4	5	6	7	8	9	10
4	0	4	8	12	16	20	24	28	32	36	40

Ci/

x	0	1	2	3	4	5	6	7	8	9	10
8	0	8	16	24	32	40	48	56	64	72	80

Dambi s'andan s'iilrni 4n ayits (ayo) s'amwots 1ti ay bowotonat 8t ayots 4nat 2 ti ay bowoto kiits rni tookhan shirotse beyiruterwerotsi boffinituwok'o wosho geyituwe.

Bi/ 8sh KAYIYA

Haniyere shin 1-7ts bborfetso beyiru taawotsn s'een taawotsi layiyo bofiints weerona 8sh bokayiyituwok'o hanara bokayiyts bobano ar bwoto k'o danosh ariyo boimetuwok'o wosha.

Ariya:- A/ $72 \div 8 = 9$ hambwoti $9 \times 8 = 72$

Bi/ $64 \div 8 = 8$ han bwoti $8 \times 8 = 64$

Hank'ona tookhanshirotse beyiru terwerotsi boffiinituwo k'o wosho geyituwe.

2.3.4. S'EEN TAAWOTSI 9n AYIYONAT K'AYIYONA (6perediya)

A/ **9n YAIYA**:- Haniye shini bodantso k'on s'een taawotsign ayiyo falituno. Bwotiyalorni jandanat bomac'o karewosh kayiyi (k'at'k'rets) rektangli yotside'er terurero geyituwe.

Ariya:-

$$3 \times 9 = 27$$

Kaarewots ambts bowoto taawo mawe tuwotsna daniruwotssh bits dabr kiitso geyituwe.

Ariya:- A/ $9+9 = 2 \times 9$
 $= 18$

Bi/ $9+9+9 = 3 \times 9$
 $= 27$

S'een taw k'atswotsi 9n ayiya (aniani daba) bofiini yere okona jando ak'marats k'o'or fiino geyituwe.

Ariya:-

x	0	1	2	3	4	5	6	7	8	9	10
---	---	---	---	---	---	---	---	---	---	---	----

9											
---	--	--	--	--	--	--	--	--	--	--	--

Anianidabonat ayiyi jandan bofiiniyere okena tookhan shirotsa beyiruterwerotsi k'aat' fiinan bofiinituwok'o washrni daniruwots niyirniyiron tuwur ak' marats bofiinituwok'o wosho geyituwe.

9yi AYOYSI

1-10 bborfetso beyiru s'een taawotsi daniruwots 3nat 9yi ayotsi detsts jando bofiinituwok'o wosha.

Ariya:-

x	1	2	3	4	5	6	7	8	9	
3										
9										

1-10 beyiru taawotsitse iko deerni 3nat gyi ayi ayotsi dek'a

Ariya:- $2 \times 3 = 6$

$2 \times 9 = 18$

Eshe 3n ayots mbtsan 9n ayots ambtsn err atrni 9yi ayoni keezoti keeziaye (keez kasha) err damiruwots ts bokewituwok'o washa.

Hank'ona 1-10 beyiru s'een taawotsn ayirni gnat 3 ayotsi nokoriyirni haniye dashi keewi guupan danbo dek'etuwok'o wosho geyituwe.

9yi ayiwetts s'een taw jamo 3aya

~~Dambi keewetsan k'on bedaniye okona tookhan shirotsa beyiru terwerotsi bofiinituwok'o woshrni aap'i problemiyotsi bofiinituwok'o kup'iyo geyituwe.~~

Bi/ S'EENT TAAWOTSI 9sh KATYIYA

Haniyere shini s'een taawotsi 2sh,3sh, 4sh, 5sh, 6sh, 7sh, 8sh kayiya etiru weron kiitsrni bbanonu (kowuntso) arb woto kiitsrni ari bano (bodetuwo) datso bofalitu woklo wosha.

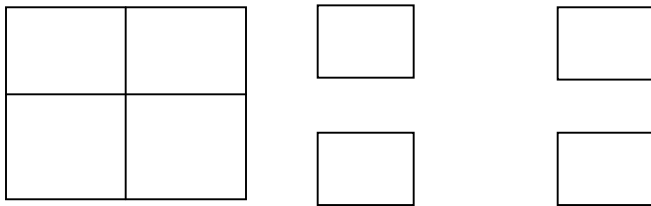
Ariya:- A/ $72 \div 9 = 8$ hambwoti

Bi/ $90 \div 9 = 10$ hambwoti $10 \times 9 = 90$

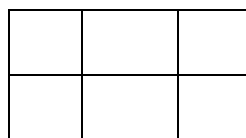
2.3.5. AANI AYEF S'EEN TAAWOTSI

Kaare worek'e to (nas) de'er aani ayiruwo eto eget bwoto haniyedashtsan k'on kiitsa

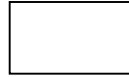
Ariya:- Ik kaare wore k'eto btaalotsedasha nonat girmanon mek'efiyon k'ut'rni kiish de'er daniruwets ambts kaare bwotok'o bodanish (bokeewish) aata.



Dambi aran its'iilor ambts kaarewots fa'ano girman (natk'omande) ? dashanewo ambts kaarewots fa'ano? er aatrni $22 = 4$ kaarewotsi bowotok'o kiitsa. Hanats na giit taawots boatse atseyon ayat (ayiyat) awo daatsro. Taawawuman taw giito eega eriiya bs'eegefo er damiruwotsi aata.Hani giit aniani (bitsbits) botokon) ayiruwotsi eta'etego. Han k'ona 1-10 beyiru s'een taawotsi miyir niyiron de'er aniani (botokon) ayiruwots ayo k'oat'otse daniruwots bokee wetuwo k'o wosha. Han k'ana k'osh k'osh s'een taa wetsi daniruwots botokon bogeyituwok'o maa fiinonat k'oat' fiinon imrni bofiinats ari aniyo (arifiino) imr bodaftarats guud' bo dek'etuwok'o wosji



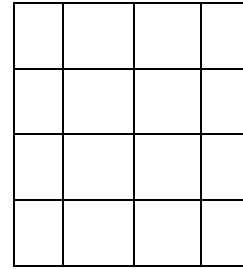
Ariya A/



$1 \times 1 = 1$



$3 \times 3 = 9$



$4 \times 4 = 16$

- $1 \times 1 = 1$ Eshna 1 koni 1 ani ayit datseka
- $3 \times 3 = 9$ Eshna 9ui 3 ani ayit datseka
- $4 \times 4 = 16$ Eshna 16 ni 4 aniayit datseka

Gawude'ere :-

Itsetut 100ts bborfetso beyiru s'een
taawotsitse ani ayits s'een taawotsi 1,4
9, 16, 25, 36, 49 64, 81 nat 100 na

Ci/ TATSONAT K'OORONA

Daniruwots too khan k'os'o bodan dek'onat bok'azon danosha bofiino s'iilo geyituwe.

- s'een taawotsi 6n ayiyi detsts s'aando baashotsi bos'eentsi tuwok'o wosha.

Ariya:-

x	0	1	2	3	4	5	6	7	8	10
6										

- S'een taawotsi 6sh kayiya etiru jeando bos'eentsituwok'o aata.

Ariya:-

6	6
30	
60	
36	
18	
24	

- Ayiyonat kayiyi jageyo aata

Ariya:- $42 \div 6 = 7$ hanbwoti

- 6n ayiyonat kayiyi ket aap'i problemiyotsi awk'o fiinetuwo k'onat bobitso aata.
- 6n ayiyonat bad'I newo dabitanats aatotsi aata

Ariya:- $6x(4+2) = (6x4) + (6x2)$
 $= 24+12$
 $= 36$

- S'een taawotsi 7n ayiyosh aap'onat k'op'iaatoaata.

Ariya:- A/ $4x7 = 28$ Bi/ $7+7+7+7 = 4x7$
 $= 28$

- S'een taawotsi 7sh bokayiyituwok'o aata

Ariya:- A/ $70 \div 7 = 10$ hanbwoti $10x7 = 70$
Bi/ $28 \div 7 = 4$ han bwoti $4x7 = 28$

- 7n ayiyonat kayiyi ket aap'i problemiytsi maa fiionat k'aat'i fiion bofiinituwok'o imrni bofiinfiino s'iila
- k'osh k'osh 8t ayotsi aatrni maafiionat k'aat' fiinen bofiinituwok'o woshrni bofiinosh ari fiino imo geyituwe.

Ariya :- A/ $10x8 = 80$ Bi/ $11x8 = 88$

- k'osh 8n kayiyi aatotsi maafiinanat k'aat' fiinan bofiinitiwok'o woshrni bofiinatsa arianiyoima .Hanora ayiyonat kayiyi jageyo keewa

Ariya :- A/ $64 \div 8 = 8$ hanbwoyi $8 \times 8 = 64$

Bi/ $88 \div 8 = 11$ hanbwoti $11 \times 8 = 88$

- 8t ayotsi bokeewituwok'o aata
- 2, 4 nat 8 ayotsi nokoriyirni shir ayotsi bogalituwok'o wosha.

Ariya:- 16to 2ti aya

16 to 4ti aya

16 to 8 t aya

- k'osh k'osh an ayiyi aatotsi moonat k'aat'otse bofiini tuwok'o wosha (aata)

Ariya:- A/ $10 \times 9 = 90$ Bi/ $11 \times 9 = 99$

- 9n kayiyi aatotsi maanat k'aat'on bofiinituwok'o aatrni bofiino ariyo geyituwe

Ariya:- A/ $72 \div 9 = 8$ hanbwoti $8 \times 9 = 72$

Bi/ $81 \div 9 = 9$ hanbwoti $9 \times 9 = 81$

- 3 nat 9 yi ayotsi keewr shiron bodetsts ayotsno bogalituwok'o aata.

Ariya:- A/ 3z ayotsi 3, 6, 9 ----

Bi/ 9yi ayotsi 9, 18, 27 ----

Ci/ 3nat 9 yi ayotsitse koni 9

- Ani (botokon) ayiru s'een taawotsi bokeewituwok'o aata.

Ariya:- A/ $2 \times 2 = 4$ Ci/ $5 \times 5 = 25$

Bi/ $3 \times 3 = 9$ Di/ $6 \times 6 = 36$

Jamona dambi keewetsotsatse tuwrni k'ash weeron s'iil rni daniruwots bidetsts dande k'o enshesh, danosh, dani k'os'o bodeshdek'o dano faletuwe.

2.4. TANWOTS SHINE SHUUTSA (2 perediya)

Danhan k'os'wotsi:- daniruwots k'oot' tookhan boishi yere okona:-

- giit taawitan detsts aatotsi fiinituno
- loo bodet s'een taawotsi ayiyonat dabi tano (giit tan detsts aatotsi) ket aap'i problemiyotsi fiinituno
- loo bborfetso beyiru s'een taawotsi syiyenat k'awitan detsts ket aap'i problemiyetsi fiinituno
- loo bborfetso beyiru s'een taawotso kayiyonat dabitan detsts ket aap'i problemiyotsi fiinituno
- loo bborfetso beyiru s'een taawotsi kayiyant k'aiwi tan detsts ket aap'i problemiyotsi fiini tuno.

DANIYIRUWO FIINA

A/ SHINI K'ANA

- Haniyere shin daniruwots awudnari taw tan wotsi etoni daba, k'awa, ayiyonat kayiyonaetiruwo eg bwoto ankat aatotsn danbode k'tsotsna (dano bodetso tsna) biyatse tuwet keewotsi k'aat'otse tizr bokeowetuwok'o k'ana—
- Hanank'o aatotsi fiin deer t'iintso geyituwe.
- Danaayi k'ac'wotsi k'aniya.

Ariya:- loo bborfetso beyiru s'een taawotsi dets ts ayiyi janda.

Bi/ DANONAT DANIYI AMATSE DANT'IIN T'IINA

Daniruwots aniyere shini bodants taw tani narotsatse tuwurni giit taninar detsts aatotsi bofiinitu wok'o wosha.

Ariya:- A/ $5 \times 4 + 22 = 20 + 22 = 42$

Aniyank'on aatotsi ak' maarats k'oorni dabonat kayiyi tanwotsi bofiinituwok'o woshni terwero tsi bofiini tuwok'o woshni bofiinosh arianiyo ima. shini kayiyosh maniyere oken dabo fiino bafalituwok'o keewi

Ci/ AYI YONAT K'AWITANWOTSI.

Ariya:- $A/ 15 \text{ } \curvearrowright \text{ } 3-5 = 5-5$

$$= 0$$

Bi/ $15-4 \text{ } \curvearrowright \text{ } 2 = 15-2$

$$= 3$$

Dambi tiintsets ariyonk'ona aatotsi ak'marats awk'o bofiinituwok'o kiitsa.Hanora tanwotsitseawu bshini tuwok'o daniruwotsi aatr keewe yo geyituwe.Maniye okona maa fiino bofiini tuwok'o wosheyiere okona arianiyo imo geyituwe.

Di/ K'EP'ONAT AWD TAWI TANWOTSNA

Jamona giitonat giite dambi tanwotsi detsts aatotsi fiinsha.

1. shini kep'otse beyiru tanwotsi fiina
2. kep'atse anarni kayiyo bbeyal kayiyo fiina
3. kayiyatse anarini ayiyo bbeyal ayiyitanofiina
4. ayiyatse tuwr dabitano bbeyal dabitano fiina
5. s'uwatsna kawi tano bboyala kawitano fine

Ci/ TATSONAT K'OORONA

Daniruwots tookhan bodaniye okona denbode k'o s'iilogeyituwe

- awd taawi tanwotsitsna giit tanwotsi detsts aatotsi bofiinituwok'o aata.
- awd taawitanwotsitsna giit tan detsts ket aap'I problemiyotsi bofiini tuwok'owosha.

Ariya:- $A/ 10 \times 3 + 0 = 30 - 0 = 30$

Bi/ $18 - 4 \times 1 = 18 - 4 = 14$

Ci/ $30 \div 5 + 6 = 6 + 6 = 12$

Di/ $40 \div 4 - 5 = 10 - 5 = 5$

2.5. SHUUTS ANAR S'IILONAT GUUP'TE WERONA (5 perediya)

Daniruwots mas'afotse keewots shengsheng keewotsi ariyon teudee shuuts anar s'iila .Dabni k'o'anitse daniruwots bodanor bosh galerawo bbeyala daniya haniyer okona guup terwerotse k'ats wotsi k'aatotse daniruwo tsnton keewefets bofiiniyere okona k'atsona maa fiinonat k'aat' fiinona er s'iilde'e imr bofiinituwok'o wosha. Erni b s'uwatsna bofiinosh arimo geyituwo bbeyal imo geyituwe.

K'OT'OK -3

3. 100 (balo)BORFETSO BEYIRU S'EEN TAAWOTSI (12 perediya)

K'OS' JAMWOTSI :- Daniruwots ham dan bok' riyere okona

- 1000re dashi 100li ayotsi (100n ayits) s'een taawotsi galituno
- 1000 bbor fetso beyiru s'een taawotsi nababituno.
- 1000 bborfetso beyiru s'een taawotsi k'opetuno.
- 1000 bborfetso beyiru giit s'een taawotsi "<"n, ">" nat "=" etiru milkituwotsn nokoriyituno 1000 bborfetso beyiru s'een taawots maa k'awntso nkeewituno

DAN AAYIY K'AC'WOTSI

Ariya

- Taawi toos'a.
- otse tuwr gyo bborfetso beyiru s'eentaawo tsi dets flesh.
kardiya, abakesiya.
- 100 ayotsi detsts flesh kardiya.
- keez fideli detsts s'een taawotsi bomaa k'awntson.
detsts jaanda.
- "<" , ">" nat "=" etiru c'ir dets ts flesh kar diya ---

DANIYI RUWO FIINA

Haniye shin daniruwots 100 bber fetso beyiru s'een taawots ayo daatso k'op'onat nanabon bodantsotsna shuuts anar s'iilosh bshangisha hanguuratse aatotsi titrni bokeeweyish t'iintso geyituwe. Erni daniruwots t'awash 1000 ayotsigalona keez fideli bborfetso beyiru (detsts) s'een taawotsi bomaa k'awntson k'o'pnat nababonat giit s'een taawotsi dan bodek'etuwok'uwa.

Dambi keewetsi dan aayii k'ac'wotsi de'er daniruwots danobodetse tuwok'o wosho geyituwe.

3.1. 100 AYOTSI (4 perediya)

Danhan k'os'wotsi:- daniruwots tookhan bodaniyere okona

- 100li ay k'atswotsi keewituno
- 100liayi s'een taawotsi dabeyiruwotso bad'ituno
- 100li ayi s'een taawotsi nababituno
- 100li ayi wotts s'een taawotsi k'op'etuno.

DANIYIRUWO FIINA

A/ SHINI K'ANA

Daniyuruwo k'aat'ots bkindf tsere shini haniye dashi keewano tsi (fiinnotsi) fiinde k'o bçgeyituwe

- tookhan daniyiftsere shini daniruwots bodants lots ayotsatse tuwrni jiik'aanar s'iilk'o aatotsi k'aat'otse bokeewetuwo'ok'o t'iints.Erni k'ot'anitse beyiru looli ayonat terwerotsn fiino sha shengsh k'onde'er t'iino geyituwe.

DAN AAYI K'A'WOTSI K'ANIYA

- taawitoos'a
- 0-9 beyiru s'een taawotsi detsts flesh kardiya
- abakesiya ----

Bi/ DANONAT DANIYI AMATSE DANT' IINT'IINA

Haniyere shin daniruwots 2ti, ayo, 3ti ayo, 4di ayo --- ayi ayo bodan tsotsna tuwosha 9yi ayotsitizrni k'aat'otse keeweyo geyituwe.

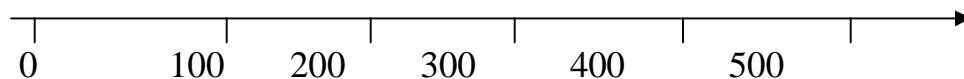
Ariya:- $A/ 10 \times 9 = 90$

Bi/ $11 \times 9 = 90$

Hanats tuwr $99+1 = 100$ etiruwo ak' marats k'oorni aap'ona yediye jeed'iyats iko dabeyora bala bwatitier daniruwots wots danbode k'etuwok'o wosho geyituwe. Erni bodofarats k'o'o bode k'e tuwok'o woshogeyituwe.

Hanatse anarni daniruwots 100 etiru s'een taawo bodaniyere okona k'osh 100li ayiwotts s'een taawotsi haniyere dashtsan k'on kiitsa.

Ariya:- $A/ 100+100 = \underline{\hspace{2cm}}$ etiruwo ak'marats k'oorni daniruwots bonababituwo'ok'o woshrni bodabeyo ambts bwoto aata. Manatsnowere ik balats ik balo dabeyor giit bala bwotit etiruwo taawonat fiideliyen k'o'or daniya. $100+100 = 200$ hanora taawi toos'o de'er kiitso geyituwe.



K'ot' giitotse bodantso k'ona 100+100 etiruwona 2100 etiru ayiyitanon bo keewituwok'o aata. manatsna bodaftarats bok'op'e tuwok'o woshi Hanwere 200ni 100li ayi bwoto keewrni haniyerdosh tsank'ona 100liayo daniyogeyituwe.

Ariya:- Bi/ 100+100+100 = _____ etiruwana ak'ma rats k'oorni balo ambtsot bits bits dabeyi erra aatrni hanora 100+100+100 = 300 bwoto keewrni 100li ayibwoto kiitsr ayiyitanon bok'op'etuwok'o aata 3100 err k'oorni daniruwots nababar bok'op'etuwo k'o wosho geyituwe. kee balona giit balon bodan ts weron er 1000 bbor fetso beyiru 100li ayi s'een taawotsi daniya

$$\text{A/ } 100+100+100+100 = 4 \times 100 = 400$$

$$\begin{aligned} \text{Bi/ } 100+100+100+100+100 &= 5 \times 100 \\ &= 500 \end{aligned}$$

$$\begin{aligned} \text{Ci/ } 100+100+100+100+100+100 \\ &= 6 \times 100 \\ &= 600 \end{aligned}$$

Hanank'o aatotsi ak' marats k'oor bodaniyea okona bodani bodani mas'afatse beyiru terwerotsi maa fiinonak'aat' fiinon bofiinituwok'o wosha, nababa. k'op'anattanon bofalo s'iilogeyituwe.

Hanats anarni 100li aywotts s'een taawotsi bo dabotsn (dabeyiruwotsi) bad'iyir k'op'o bofalityuwo k'odaniyo geyituwe.

$$\begin{aligned} \text{A/ } 400 &= 300+100 \\ &= 200+200 \\ &= 100+100+100+100 \end{aligned}$$

$$\begin{aligned} \text{Bi/ } 800 &= 400+400 \\ &= 300+500 \\ &= 200+600 \end{aligned}$$

$$= 100+700$$

Hanank'o aatotsi ak'marats k'o'orni daniruwots bodane tuwok'o wosha. maniyere okena shengsh bofiino danosha niyirniyiron keyer ak'marats bofiinituwok'o woshni bofiinosh arianiyoimrni bodaftarats k'o'o bode k'etuwok'o wosho geyituwe.

TATSONAT K'OORONA

Daniruwotssh dan hanbgalonat b k'azon danosha s'iilogeyituwe.

Ariya:-

- 100 liaywotu s'een taawotsi aap'on bokee wituwok'o aata
- 100li aywotts s'een taawotsi k'o'or bokee wituwok'o aata
- 100li aywotts s'een taawotsi bodabotsn (dabeyir uwotsn) bad'iyir bok'op'e tuwok'o aata
- 1000ye dashi 100li ay wotts s'een taawotsi bonaba bituwok'o aata.
- daniru wots mas'afatse beyiru terwerotsi maa fiinonat k'aat' fiinon er bofiinituwok'o woshni ari aaniyoima.

3.2. 101 tse tuwr 1000 Bborfetso Beyiru S'een

Taawotsi (4 perediya)

Danhan k'os'wotsi:- daniruwots danhan bo'ishiye okona:-

- 100li ay wetts s'een taawotsats ik fideli yets s'een taawotsi dabituno.
- keez fideliyets s'een taawotsi 100li ayonatik fideliyets s'een taawotsn bodabeyotsn (dabeyiruwotsn) bad'iyir k'op'etuno.
- 1000 bodet s'een taawotsi bomaa k'awun tson k'op'etuno.

DaNIYIRUW FIINA

A/ SHINI K'ANA

Daniyiruwo k'aat'ots daniyosh kindftder shini haniye dashi keewanotsi (fiinanotsi) fiindek'o bigeyituwe.

- tookhan daniyiftsere shini daniruwots 100li ayotsi nababo, guut'onat bodabotsn bad'iyidee k'op'o bofaltsotsna shuuts anar s'iilosh bshengisha aatotsi k'aat'otse keeweyosh k'aniyo geyituwe manatsnower loltse tuwr 1000 bborfetso beyiru s'een taawotsi s'iilituwona eget bwoto k'o daniyosha shengsh k'ande'e t'iino geyituwe.

DAN AAYIY K'AC'WOTSI K'ANIYA

- 100li ayotsi detsts flesh kardiya
- abakesiya
- keez fideliyets s'een taawotsi bomaa k'awntsonten dets glesh kardiya.

Bi/ DANONAT DANIYI AMATSE DAN T'IIN T'IINA

Haniyere shin daniruwots 100wayotsi nababo, k'op'o nat bodabeyotsn bad'iyide'erk'op'o danrno. Eshna tookhan daniyosha shini 1000 bborfetso beyiru 100liayotsi (100n ayitsotsi) wotts s'een taawotsi bodabeyotsn bad'iyide'er k'op'a etiruwo shuuts anar s'iil k'on k'aat'otse bokeewetuwok'o t'iintso geyituwe.

Ariya:- $A/ 200 = 100+100$ $Ci/ 700 = 400+300$

$Bi/ 300 = 200+100$ $Di/ 900 = 400+500$

Hanatse anarni 100n ayits s'een taawotsatsa ik fideliyets s'een taawotsi daba etiruwona eg b' woto haniye dashtsank'on ak'marats k'o'or kiitsa.

Ariya:- $A/ 100+1 = 101$

$Bi/ 100+4 = 104$

$Ci/ 200+6 = 206$

$Di/ 900+9 = 909$

Hanank'o aatotsi niyirniyiron daniruwots bokee wituwok'o (bedanetuwok'o) wosh. Hanora s'een taawotsi taawon, fideliyon nababonat k'o'p'o bofalitu wok'o bitsbits (aniani) gargaro geyituwe. Hanats anarni danhan shengsh

shaniyosha (daniyosha) danaayiyi k'ac'wotsi k'anide'erni etoni 100li ayotsi (soon ayitsotsi) detsts flesh kariyo k'anide'er kiitsa.

Ariya:- A/ $\boxed{100} + \boxed{1} = \boxed{101}$

Tookhan anianibodaniyeo okona terwerotsi maa fiinonot k'aat' fiinan bofiini tuwok'o woshrni bofiinosha ari ayiyoimo geyituwe.

Dambi keewetso k'ona 100 ay wotts s'een taw otsatsa ik fideliyets s'een taawotsi daba etiruwo eg et bwotok'o dani ruwots danbodel'iye okona jamona (dabtdatsetso) bodabetsotsn bad'iyide'ere k'op'o haniye shin bodan tsotsna manuweron damhan haniyere dashtsank'o tuwo geyituwe.

Ariya:- A/300 = 200+100 Bi/ 200 = 100+100

Ariyank'ona k'aat'otse keewe yaronioni keez fideliyets s'een taawotsi bodabeuiruwotsn bad'yirni 100li ayotsnat ik fideliyets s'een taawots jamo(dabt datsetso) bad'iyide'e k'op'o bofalizuwok'owa haniye dashtson k'on kiitsi.

Ariya:- A/ 405 = 400+5 Bi/ 806 = 800+6

Ci/ 907 = 900+7 Di/ 505 = 500+5

Hanank'o aatotsi 100li ayonat ik fideliyets s'een taawi dabona aniani (bits bits) k'oor bodane tuwok'o woshe yiye okona bodani mas'afatse beyiru terwerotsi k'a atonat maa fiinon bofiinituwok'o woshrni bofiino shaari aniyoimo geyituwe.

Bs'uwatsna keez fideliyets s'een taawotsi bomaa k'awunotson mababa, k'op'onat dabeyiru wotsn bad'iyide'e k'ep'o bofalish haniyere dashtsank'on kiitsa

Ariya:- A/ 4.05 s'enn taawhana balwotsn

tatswotsnot ikwotsn k'op'a

Bi/ 400+0+5 = awd balwotsi,zero tarswotsi

shrt ukwotsi

<u>Ci/ S'een taawa</u>	<u>Balwotsi</u>	<u>Tatswotsi</u>	<u>Ikwotsi</u>
112	1	2	2
234	2	3	4
756	7	5	6
908	9	0	8

Hanank'o aatotsi niyir niyiron deer ak'marats k'o'or balimaa, tatsimaa, Ikimaa etiruwotsi jaando de'er ambts balwots fa'ano? ambts tatswots fa'ano? ambts ikwots fa'ano? er aatr dani yeyiye okona taawonat fideliyon k'o'or bonababi tuwok'o, bok'o p'etuwok'o er eg b'etiruwok'o dan bodek'oe tuwok'o wosho geyituwe.

Hanora s'een taawots 101tse tuwr 200lo bborfetso, 201tse tuwr 300lo bborfetso, 301tse tuwr 400lo bborfetso --- er kaide'er niyirniyiron daniyo geyituwe.

Ariya:- Nababonat k'o'p'ona (guut'ona)

<u>Taawona</u>	<u>Fideliyona</u>
A/ 110	ik baletatsa
Bi/ 345	keez bale habe uutsa
Ci/ 504	uutsbale awda
Di/ 932	jeed'ibale shaashe giita
E/ 121	ikbale hiye ika.

Ci/ TATSONAT K'OORONA

Daniruwots dan tookhan k'os'wotsi dan bodek'o s'iilogeyituwe.

Ariya:-

- ik fideliyets s'een taawona 100oye dashts 100 ayits s'een taawotsnton bodabituwok'o aata (aap'onat k'oop'ona)
- keez fideliyets s'een taawotsi dabeyiruwotsn bad'iyde'e ik fideliyetsotsnten 100li ayiwotts s'eentaawdabonton (jamonton) bokeewitu wok'o aata.
- keez fideliyets s'een taawotsi bomaa k'awntson aap'onat k'op'on (fideliyon) bokeewitu wok'o aata.

3.3. 1000 BBORFETSO BEYIRU SEEN TAAWOTS

SHINE SHUUTSA (4 perediya)

Dan tookhan k'oswotsi:- daniruwots han danbok' riyere okona:-

- 1000 bborfetso beyiru s'een taawotsi taawi toos'on kiitsituno
- 1000 bbor fetso beyiru s'een taawotsitse shin tsonat shuutstson wottsotsi keewituno.
- imets giit shine shuuts s'een taawotsitse shuutstso awi bwoto keewituno.
- giit s'een taawotsi “<” “>” nat ‘=’ ciranotsn (milkitanotsn) nokoriyituno.

DANIYIRUWO FIINA

A/ SHINI K'ANA

Daniyiruwo daniyosh k'aat'ots kindftsere shini naniyere dashi fiinanotsi fiindek'o bigeyituwe.

- Tookan daniyiftsere shini daniruwots s'een taawots shine shuutso k'ot' giititse bo dantsotsna anda shuuts anar s'iilk'o aatotsi tizrni k'aat'otse keeweyosh k'ande k'ogeyituwe. Maniyer okona tookhanitsi

danoeg báetiruwok’o hanton gonkide’e (deshide’e) f’iintso (daniyo) geyituwe.

DAN AAYI K’C’’ WOTSI

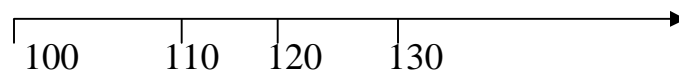
K’ANIYA

- 1000 bborfetso beyiru s’een taawotsi kiitsit taawi toos’a
- otse tuwr gbbor fetsobeyiry s’een taawotsi detsts flesh kardiya.
- ‘<’ ‘>’ nat = c’r (milkit) detsts flesh kardiya.

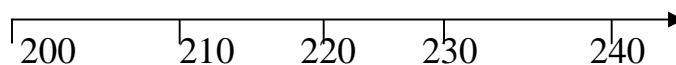
Bi/ DANONAT DANIYI AMATSE DAN T’IINT’IINA

Daniruwots haniyere shin 100 bbor fetso beyiru s’een taawotsi s’iilit keewatse dano bode tstso tsna anda muk’na aatotsi tizr k’eeweyo geyituwe. manatsna taawi toos’o deerni ak’marats kiits rni 100tse tur 100 bbor fetso beyiru s’een taawotsi tatson k’oshir (bodagotse tatstatsi k’osheyo bbe yetuwok’o woshir bokeewituwok’o wosha.

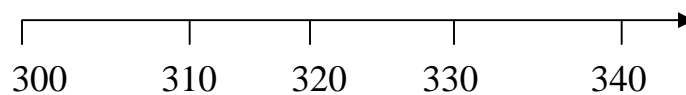
Ariya:- A/



Bi/



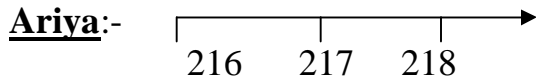
Ci/



Hanank’o taawi toos’wotsi ak’marats k’o’or kiits rsni taw too s’wotsatse t’oo lets s’een taawotsi bokeewituwok’o wosha.

Manatsnowere terwerotsimaa fiinon k’aat’ fiinon fiinar bo’ere bofiinats/sh ariaaniyo imr bodandek’o (bodan) enshbode k’etuwok’owosho geyituwe.

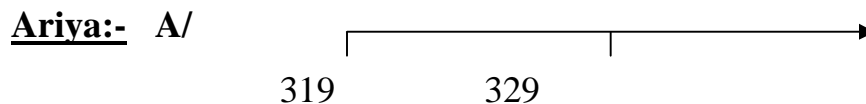
Keez fideliyets s’een taawots shintsonat shuutstson taawitoos’ode’er haniyere dashtsa nk’on kiitsi



‘217’ taawi toos’atse k’marats k’o’orni shintso nat shuuts s’een taawodaniruwots boke wituwo k’o wosha. Etoni ‘217’n shinoni 216 bwoterna b’shuutsi s’een taawoni 218 bwotok’o daniyi (nibniyi)

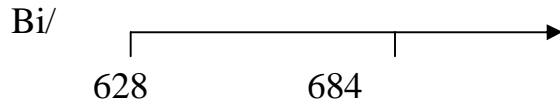
Hank’o werona keez shineshuuts s’een taawotsi niyirniyiron kiitsni awuk’o k’alde’e shine shuutson k’op’etuwok’o (gedetuwok’o) aatrni daniruwots botookon tuur aw shink bwoto? aw shuutsats bwo tok’o bokee wituwok’o wosho geyituwe. Maniyere okona terwerotsi maafiinon k’aat’ fiinon bofiinituwok’o woshonat s’iilon geyituwe.

Giit s’een taawotsi niyirniyiron de’er nokoriyo bofalityuwok’o taawi toos’ats s’een taawotsi ak’marats k’o’orni daniruwots botookon bokeewituwok’o wosha. Hanora balwotsi tatswotsnat ikwotsn taawiayo aatr ambts bwoto keewa.



- 319 Etiru s’een taawatsna 3z balwotsna ik tatswotsnat jeediya ikwotsn fa’ano.
- 329 etiru s’een taawotsitsna keez balwotsna, giit tatswotsnat jeediya ikwotsn fa’ano.

Eeshna iktatswotsiyere giit tatswots bobo getuwok'o daniyi. Hana ak'marats $319 < 329$ er k'o'or (guud'r) kiitsi.



- giit s'een taawots bodetsts bali ayon (taawon) talno wotowa bakona 648 awd tatswotsi bberna (bdesbna) 628 nmo giit tatswotsi bdetstso k'o keewrni 648to 628ye bbogetuwok'o daniyirni $628 < 648$ er k'o'o (guud')
- Hank'on k'osh k'osh s'een taawotsi niyirniyiron de'er daniruwotssh daniyirni terwerotsi maa fiinonat k'aat' fiinon bofiini tuwok'o woshrni bofiinoshari aniyo imo geyizuwe.

Dande'ere (T'iwintsuware)

giit keez fideliyets s'een taawotsi nokoriyosha

- shini bodetsts balwots taawon nokoriya
- balwots taawotaal wotbutsiyala tats wots taawon (ayon) nokoriya
- balwots taawonat tatswonat tatswotstaawon taal wotbutsiyala ikwots taawon (ayon) nokoriya.

TATSONAT K'OORONA

Daniruwots danhan danhan k'os'wotsi bot'iwintsdek'o s'iilogeyituwe.

- 1000 bbarfe tso beyiru s'een taawotsi taawi toos'ats kiitsa
- s'een taawotsshine shuuts s'een taawotsi bokeewi tuwok'o aata.

Ariya:- 482 shinonat shuutsi s'een taawo tsi bok'eewish aata.

481 shin/ts s'een taawa.

* keewets giits'een taawotsitse aw bogfa? aw muk'efa?nat talno? etiru aatotsi aata

Ariya:- A/ 526 < 540 Bi/ 321 > 320
 Ci/ 456 = 456

K'OT'OK AWDA

4. JI'OMETRIYA (22 perediya)

K'OS' jamwotsi :- Daniruwots k'otanodan bok'riye okona

- boganoke beyiru (datset) keewotsi shaatit jiome tri aro danetuno.
- ji'ometri shanots boaronat bo'atson galituno.
- k'op'ona jindona, tungushona, toos'ona gurkona egbowotok'o keewituno.
- mesmeriyo de'erni jindona, keez nah k'ona awud nalk'on bosererituwok'o (sererituno)
- keezonat awud nal k'ets arotsatsna nalk'o na (nalk'otsna) verteksiyotsna galituno.

DaNAAYI K'ACWOTSI K'ANIYA

- keez nalk'ets k'ac ari modeliya.
- awud nalkets k'ac'caari madeliya.
- guriyek medeliya.
- mesmeriya wokaan k'indetsmas'afa.
- k'aw work'at k'inda.
- keezonat awud nalk'ets arotsi kiitsit cartiya ----

DANIYI RUWO FIINA:-

Jiometriya etiruwo daniru wotssh handr bwots tsotsna (haniyere shin bodanawotsna) bogano be de'e rni jiometri orotsi bodane tuwok'o woshrni bo aronat boatsona (bogitsona) daniyosha dambi kee wets dan aayi k'a c'wotsi de'ern shengsh k'ande er t'iino geyituwe.

Hanora k'op'ona, jindona, tungu shona toos'onat k'uk'ronat hanank'o keewotsi keez nalk'o awudnal k'o eget b'awotok'o daniyirni (detsiyirni) tookhan shirotse beyiru wan keewats k'an de'e keeweyosh t'iino geyituwe.

4.1 JI'OMETRI AROTSE GALONAT SHUUTS IMA

(5 perediya)

Danhan k'os'wotsi:- daniruwots tookhan bodan k'riyere okona:-

- ji'ometri arotsi danetuno (galituno)
- ji'ome tri arotsi shuutsituno
- ji'ometri arts arotsi kiitsituno

DANIYIRUWO FIINA

A/ SHINI K'ANA:-

Daniyiruwo daniyosh k'aat'ots kiind ftsere shini haniyere dashi fiinanotsi fiinde k'o bigeyituwe.

- Tookhan daniftsere shini daniruwotssh keewan handr bwottso tsotsna bogan ganoko datset keewotsi keewur jiome triaro shaatiyo falituwotsi ak'marats k'o'or bokeewe tuwok'o wok'o wosho geyituwe. Erni tookan shirotse beyiru keewotsi datshamatse bodants keewotsnton deshide'e t'iintso (keewo) geyituwe.

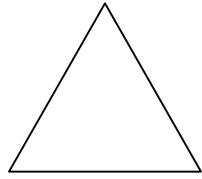
DAN AAYI K'AC' WOTSI K'ANIYA

- keez nalkets modeliya
- awud nal k'ets modeliya
- gurk omodeliya

Bi/ DANONAT DANIYI AMATSE SANT'IINT'IINA

Jiometri arotsi danr boshuutson bokeewitu wok'o woshosha boaro ak'marats kiitso geyituwe hanora jiometri arman boganoke datset koowo tsetse awi (koni) bartsok'o keewurni haniyere dashtsan k'on daniya.

Ariya:-



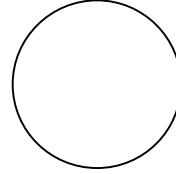
Keez nal k'ets ara.



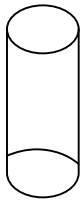
Awud nalk'ets
ara.



keez nalkets
ara



gurk ara

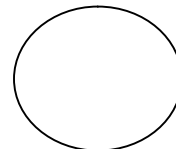
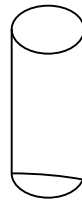
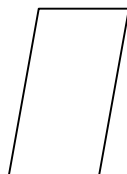
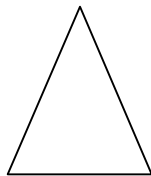


T' aasiara.

Dambi keewets (t'iintssets) aranets noganoke boshaatit keawotsi daniruwots bokeewituwo k'o wosho geyituwe.

Ariya:- j'imba, gaawa, burtkaniya sat'ina ni boshapo bokeewituwok'o kup'iyogeyituwe. Hanara b'ar bodants keew iko ak'marats k'o'orni ani k'osh k'osh arono k'oorni (sererarni) eg bowo to bokeewituwo k'o wosha. Hanora giromantse beyi ruaro ebibar ? k'anomandtso niye? dambtso niye? dosh tsoniye ? s'iilon boaniyituwok'o woshogeyituwe.

Ariya:-





Haniyere okona bodani mas'afatse beyiru terweri aatotsi kaat' fiinon bofiinituwok'o woshni bofiinosh arianiyo imrni bodaf tarats k'o'o bode k'e tuwok'o wosho geyituwe.

TATSONAT K'OORONA

Daniruwots danhan k'os'o danbode k'o s'iilo geyituwe.

Ariya:- - ji'ometri aro ak'marats seerarni b'ashapo
bokeewituw k'o wosha.

- k'osh k'osh ji'ometri aretsi ak' marats k'o'o rni (sererarni) arman shaponat b'akaton bokeewituwok'o aata.

4.2. JI'OMETRIYA ETIRU KEEWI S'AP'WOTSI

K'OP'ONAT KAWJINDONA (5 perediya)

Danhan **k'os'wotsi** :- daniruwots dan han danbo k'riyere okona:-

- mesmeriyo deer kaaw jindo dererituno
- k'op'o fideliyon shuutsituno
- kaaw jindo fideliyon shuutsituno

DANIYI RUWO FIINA

A/ SHINI K'ANA :-

Daniyiruwu k'oat'ots kiindftsere shini haniyere dashi fiinanotsi k'alde k'o (fiindek'o) bigeyituwe.

- Tookhaniyere shin daniruwots ji'ometri aro galonat shuutsimon (shuutsiyon) ani bo'ar sereron (k'op'on) bodantsotsna hanatse' tuwrni keeweyosh k'ande'e t'iino geyituwe. Manatsna k'op'onat

kaawjindoeg b'etiruwok'ona boganoke daatset keewotsnton jagide'e
(gonkidee) daniyo sh k'ande k'o geyituwe.

DAN AAYI K'AC'WOTSI K'ANIYA

- mesmeriya
- daftariweyin mas'afi k'inda.
- k'aawets (k'odets) work'ati kinda.

Bi/ DANONAT DANIYI AMATSE DAN T'IINT'IINA

Jiometri etiru keewi s'ap' wotts k'op'o' daniruwotssh handr bwottsotsna
k'op'a etiruwona ' 'ak'ma rats haniyere dashtsank'on kiitsa.

- Ariya:-** - ' ' k'op'a etaetefo
- k'op' a er shuutyefe (s'egefe)

K'op' shaatit keewotsi boganoke datsetkee wotsitse bokeewituwok'o
daniruwotsi aata.

Ariya:-

- A/ irsasi c'uusha
- Bi/ ankasi c'uusha
- Ci/ mesamari c'uusha
- Di/ kobi c'uusha

Dambi keewets ariyanots c'uusho kiitsr k'op'a etiruwo eg bwotok'o
bodaniye okona terwerotsi maa fiinon k'at' fiinon bofiinituwok'owosha.

Ji'ometriyo etiru keewi s'ap' ar wottsotsitse gitloni kaaw jinda. Hani
giit k'op'wotsats sererarni woyin k'indets keewotsi (daftaro, masafu ---)
de'e rni kap'ar fiino faletuwe.

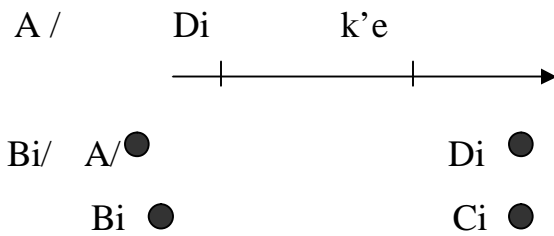
Ariya:-



- * hana kaawjind ABi erni shuutsyefo .
- * “ \longleftrightarrow ” hani kaaw jindi taawi c’ira (milkita).
- * \longleftrightarrow er s’eego (shuutsiyo) faletuwe.

Daniruwo ts ik wore k’etats giit k’op’wotsi bo gedetuwo’o woshni giit k’op’manotsi mesmeriyon deshiyir (gonkir) kaaw jindo fino (datso bofalityu wok’o a’ayiyo geyituwe.

Ariya

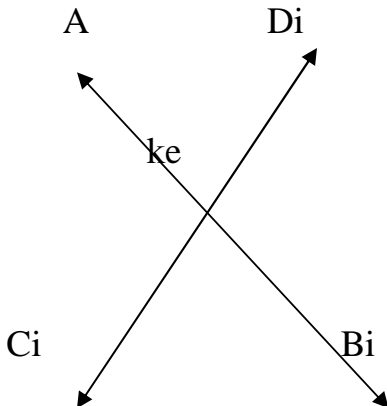


1. k’op’o Ayi Biton goonkiyor
2. k’op’ Ayi ‘Diton goonkiyor
3. k’op’ ‘Biyi Citon goonkiyor
4. k’op’ Ci ‘Diton goonkiyor

Er aayirni bofiints jindwots ambts bowoto aata. Terwerotsi maafiinonot k’aat’ fiinon bofiinit uwok’o woshni bofiinosho ari aaniyo imo geyituwe

Haniyer anarni giit kaaw jindwots bok’ut’eyor etiruwo eg bwotok’o haniyer dashi t’iintse tsank’on kiitsa.

Ariya:-



Cit jindwotsi akmarats sererarni bok'ut'ewokona k'e er kitsa. Hanora giit jindwotsi k'ut'k kaaw jin bowoto keewosha k'osh k'osh arotsi hank'o weeron kaaw jindwotsi k'ut'iyirni bok'ut'eyoki beyokuna (k'op'o) daniruwots bokeewituwok'o wosho geyituwe.

Erni botokon k'ut'k kaw jindwotsi bodafta rats fiinar batewrerituwoko wosho geyituwe. Han s'uuwatsna terwerotsi bwottsok'on maafiinonats k'aat' fiinon bofiinituwok'o ima.

TATSONAT K'OORONA

Daniruwots dan han eg boshiyosh (etosh) bgeyiruwo k'o dan bodek'o (danobodetso) geyituwe.

Ariya:- -

- Giit k'op' wotsats kaaw jindo bosereritu wok'o aatrni hanora mesmeriyo woyin bodoftari k'indo bodek'e tuwok'o wosha.bo fiinono s'iilr arama.
- Ak' marats woyin bodaftarats k'op'o bokii tsituuwok'o aata.

4.3. K'OP'ONA KAAW JINDONA, KEEP'E KKAAW JIND JAGEYONATNI KEEZNA LK'ETSONAT AWD NALK'ETS AROTSNA (7 perediya)

Danhan k'os'wotsi:- daniruwots danhan boishtsok'ona:-

- mesmeriyo deer k'ut'e kaaw jind giit otsi sererituno (kiitsituno)
- keez k'ut'k kaaw jindwotsi sererar kee nalk'I aro fiinituno

- awd k'ut'k kaaw jindwotsi sererar awd k'ut'k kaaw jindwotsi sererar awd balk'I aro fiinituno
- k'osh arets orots nalk'o goonkiyirni bogonkewoko (vertersiya) danetuno
- keeznalk'ezs aro (atso) danetuno (galituno)
- awdnalk'etts ari maa'a galituno

DANIYIRUWO FIINA

A/ SHIN K'ANA

Daniyiruwo k'aatots daniyosh b' kindftsere shini haniyere dashi keewanotsi fiindek'o bigeyituuc

- Tookhaniyer shindaniru wots k'op'a etiruwonat kaaw jinda etiruwon bodan tsotsna shuuts anar s'iilesh bshengetu wokowa daniruwets k'op'o nat kaw jindaer t'iino geyituwe. Manatsnowere k'op'onat kaaw jindon bodetsts jagewo daniyodha boganoke dantsetkeewotsnton deshi deer (gonkideer) t'iintso geyituwe.

DAN AAYI K'A C'WOTSI K'ANIYA

- mesmeriya
- keez nalk'etsonat awd nalketson kiitst cartiya.

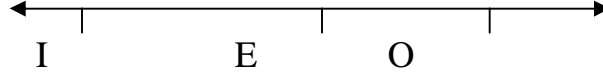
Bi/ DANONAT DANIYI AMATSE DANT' IIN T'IINA

Haniyere shin daniruwots k'oponat kaaw jindan bodantso tsna anda shuuts anar s'iilk'o aatotsi k'anide'e aatr bogawdek'etuwok'o wosho geyituwe maniyere okon k'op'wotsna, kaaw jinwotsna .Eena wkaawjindona, keeznalk'e tsona, awd nalk'e tsarotsi niyirniyiron t'iintsetso k'on kiitso geyituwe.

4.3.1. K'OP'ONA, KAWJ NDONAT KEEP'ETS KAW

JINDWOTS JAGEYA

Ariya:-



* K'op' 'E' k'op' 'I' nat 'O' n dagotsa bdatset

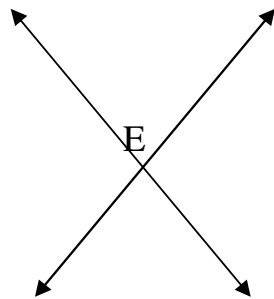
* k'op' 'E' kaaw jindatsna bdatset (bfa'o)

Haniyere okona daniruwotsi tizrni git k'op'wo tsatse beshit jindwotsi fiinar bo shuutso boimetwok'o woshrni k'osh hannari kaaw jind wotsi bodaftarats fiinar bodanetuwok'o wosha. Hanank'o aatotsi maa fiinonats k'at' fiinon bofiinitu wok'o wosha.

Ci/ K'UT''E KAAWIINDA

K'ut'ek' kaaw jinda eto eg bwoto k'o daniruwotsi aatr tuwo (daniyo) faletuwe. Giit kaaw jindwotsi ak' maratse bok'ut'e tuwok'o woshr fiinorni giit jindwotsi k'ut'e jind bowoto daniya.

Ariya:-



Giit jindwots bok'ut'eyiru beyokuna k'op' 'E' woshr daniyirni k'osh k'osh k'ut'eyiru jindwotsi bodaftara ts fiinarni bok'ute' yoki k'op'una shuutsiyir

danrni terweratsi aatotsi maa fiinonaf k'aat' fiinan bofii nituwok'o wosho geytuwe.

Di/ KEP'EK KAAW JINDA

Masmeriyo de'erni kep'ek kaaw j'indo haniyere dashtsan k'on ak'marats kiitsa.

A $\xrightarrow{\hspace{10em}}$ O \rightarrow

Ik kep'ek kaaw jindo ambts c'uush k'op'wotsi dets fa'err atr daniyirni hanora kep'ek kaaw jinda eto eg b'awotok'o (b'atuwokonaf b'a s'uuwokon danek bwotok'o) boganoke datset keewotsnton deshidee daniyo geyituwe.

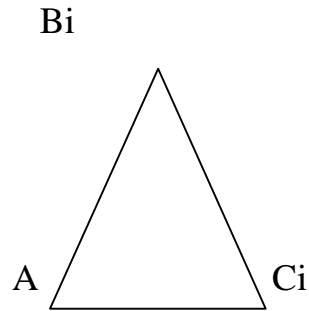
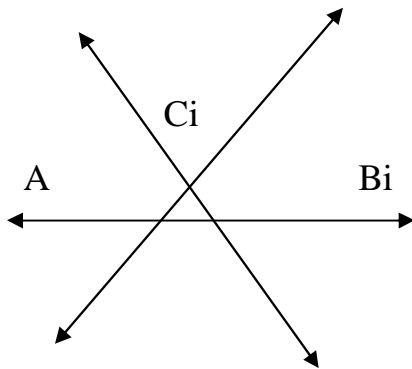
Daniruwotsi tizrni mesmeriyo woyinmo bodaftaronaf bomas'afi kindo de'er kep'ek kaaw jindo fiinar bokiitsituwok'o wosheyiyere okona bodaftarats ani bofiini tuwok'o wosha, Kep'ek kaaw jindwots c'uush k'op'wotsi bogedetuwo k'o keewi. kep'ek kaaw jind taawi milkito (c'iro) “ _____ ” b'awotok'o ariyo imr kiitsi

Ariya:- A $\xrightarrow{\hspace{10em}}$ O Kep'ek kaaw jind AO
woyin AO erni shuutsiyefo
(s'eegefo)

Daniruwots k'ot'ok katse bodants yotsi (danets) eed' indi k'ac' wotsatse tuwrni kep'ek kaaw jindona mesmeriyon tatso (indo) faletuwo k'o keewi k'awuna, genza woyinmo taala bwotit etiruwotsi de'erni kep'k gitonat giite bog kaaw jind wots bonokoriyituwok'o wosho geyituwe. Maniyere okona terweri aato tsimaafiionaf k'aat'i fiinon bofiinituwok'o wosha.

4.3.2. KEEZ NALK'ONAF AWD NALK'ETSE AROTSI

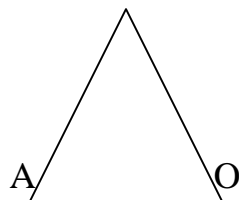
Kez nalk'ets kardiyotsi kiiysrni ambts nalk bodetso k'o (bodetstsok'o) nat boshuutsono koni etewok'o aatrni kez nalk'etsi eta etefoer keewa. kez kaaw jindwotsi haniyere dashtsank'o serera.



Kep'ek kaaw jindwotsi book'ind k'indo (c'uushc'uusho) deshiyirni (gonkiyirni) kez nalk'e ts aro ak' marats k'o'or kiitsa.

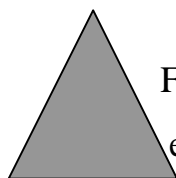
Manatsna kez nalk'etso awuk'o shuutsiyetuwo k'o aatrni boaniyo k'e bdek'eyiyer okana haniyere dashtsank'o shuutsiyir (shuutsoimr) kiitsa.

Ariya:-



- kez nalk'ets AOI woyin kez nalk'ets OAI woyinmo kez nalkets IOA err s'eego (shuutsiyi) faletuwe

Haniyere okona aran shatit (arit) keewo boga noke datset k'ac'wotsitse (keewotsitse) bos'eege ruwok'o (bo keewituwok'o) aato geyituwe. Manatse anarni kez nalk' maac'a etiru keewona shengsh haniyere dashtsank'o kiitsa.



Fuutetsiaanoni kez nalkets ari maac'a eta etefo

Hank'ona k'osh k'osh arotsi (enonat muk'on ekdeerni) bomaac'o ak' marats akiyirni (fuurni) daniruwo ts bodane tuwok'o woshni terweriaatotsi bofiinitu wok'o wosho geyituwe.

Keez nalk'etso daniyets weerona awud nalk'etsono bodani mas'afatse t'iintsets weeron daniyir aniter weri aatotsi bofiinituwok'o wosho geyituwe.

Awudnalk'etsonat keez nalk'etson bogon kewoki k'op'o (verteksiya) kiitsr bodanetuwok'o woshogeyituwe.

TATSONAT K'OORONA

Daniruwo ts danhan shengsh bo danonat dets bode k'ts dani k'os'wotsidanosha haniyere dashi t'iin tsetsan k'on s'iilo geyituwe.

- Giit k'ut'eyiru kaaw jindwotsi botere situwok'o aatrni bofiino s'iila.
- Mesmeriyon keez nalk'etsotsnat awud nalk'etsarotsi bosererituwo k'o (bofiinituwok'o) aatrni bofiinono s'iila.
- Arots nalk'onat bogonkewoki k'op'on (vertex siya) bokiitsi tuwok'o aata.
- keez nalk'etsonat awud nalk'ets arots maac'o bogalituwok'o (bodanetuwok'o) aata.

TOOS'A TUNGUSH GURKONA (5 perediya)

Danhan k'os'wotsi:- daniruwo ts dan han boishirere okona

- Toos'a eto egetb wotok'o keewituno
- ❖ Tungusha eto eg et bwotok'o keewituno
- ❖ Gurka eto eget bwotok'o keewituno

DANIYIRUWO FIINA

A/ SHINI K'ANA

Daniyiruwo k'aat'ots daniyosh kindftsere shinihaniye dashi keewanotsi (fiinanotsi) k'aldek'o bigeyituwe.

- Tookhan daniyiftsere shini toos'ona, tungushonat, gurka etiruwots egbowotok'o daniruwots ganoke datset keewotsnton gonkide'er sheng sh k'ande'er t'iino geyituwe.

DAN AAYI K'AC'WOTSI K'ANIYA

- mesmeriyadd

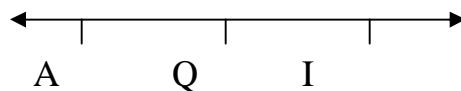
Bi/ DANONAT DANIYI AMATSE DAN T'IIN T'IINA

Dan hanitsna daniruwets galganoke datset keewo tsetse toos'ona, tungushonat gurkan shaatituwotside'e rni daniyo geyituwe.

TOOS'A

Toos' daniyosha aaw shaanona, kishi batri shanon de'erni danoyo faletuwe. Ariyosha aaw shano de'e rni b'atuwo konat b'abodetokon (b'as'uwitwokon) daniruwotsi aatrni b'atuwoka bako b bodetoko (b'as'uwitoko) aliye (danatsone) er keewurni toos'o nuwe hank'owiye er dani (keewi) toos'iaro daniyosha shini kaaw jindo sererarni (fiinarni) bin (kaawjindo) shuuts aanar s'iila. kaaw jindatse beyiru k'op' wotsitse iko deer shuutsiya. Erni k'o'p'man kaawjindman gitosh b'akayiyituwo k'o aatrni haniyere dashtsan k'on daniya.

Ariya:-



K'op' "O" kaaw jin 'AI' na kayira



Bogitanotsi toos'no (toos'a etaetefo) Etoni toos QA woyin QA erni s'eegefo
 “ ” hani taawi toos'i c'ira (milkita) toos' QI woyin QI erni s'eegefo.

Toos'oni ik s'uwi (kindi) k'op'o detsfe ikweronmo s'uwo (kindo) deshatse err daniru wotssh keew.

Toos'ona haniyere dashtsan k'on shuutsi yo (shuutsimo) faletuwok'o daniyi. Ariyosha ak' marats toos'o sererarni ik k'osh k'op'o toos'ma natse de'erni shuutsiya.

Ariya:- A $\xrightarrow{\hspace{2cm}}$ Q

Shini suushu 'A' er shuutsiya Erni ik k'op'o de'erni 'Q' er shuutsiyirni toos' AQ woyinmo AQ er s'ee getuwok'o (shuutsiyetuwok'o) ak' marats fiinar daniyi rni terweri aatotsi bofiinituwok'o wosho geyituwe.

TUNGUSHA

Daniruwots boganoke datset tok'eewotsitse tungush shap dets ts keewotsi bokeewituwok'o aata.

Ariya:- A/ mak'asi shapa Ci/ kishi jaabidaga
 Bi/ kompasiya Di/ kishi aari k'aawa

Dambi keewets ariyatsi kaat'otse kiitsrni tungusha etiruwo daniruwots shengsh danbodek'o tuwok'o wosha haniyere ok ona ikatse tuwito (ik'k'op' detsts) toos' wotsi ak' marats sererarni (k'oorni) haniyere dash tsank'on tungush aro kiitso (daniyo) geyituwe.

Ariya:- A $\begin{matrix} \nearrow & U \\ \searrow & Q \end{matrix}$

Tungusho fiinefo giit jindwotsi k'ut'iyirni woyinmo bo c'uush cuushon gonkiyirni erni bogonke wokni (bodesheyoku) k'op'o verteksiya' etefok'o daniyi tungusharona shuutsi (shuutso im) Etoni tungush QAU woyinmo UAQ er s'eegefok'o keewurni terweri aatotsi bofiini tuwok'o wosha.

GURKA

Santibona gewona s'awi shanonat k'oshk'osh hanan k'o kee wets gurk shapo bo detststsok'o tiwintsiya Giit rsasiyotsi s'aaron tifdeerni ik rsasiyo c'uushona gurki taalots k'ons'derni k'r sagiyan bc'uushon guuriyir gurko fine tuwok'o kiitsrni hank'on k'osh k'osh taaleraw gurbotsi bofiini tuwok'o woshi. Haniyere okona kampasiyo de'er gurbotsi fiinarni botaalokibeyoko keton boda netuwok'o (bodatsituwok'o daniyirni gurki dagitaalona fideliyon boshuutsituwok'o wosh rni bosha ka'ts wots dagitalo awuk'o datses tuwok'o kiitsrni terwerotsi bofiinituwok'o wo sho geyituwe.

TATSONAT K'OORONA

Daniruwotsi dan han danbodek'tsok'on haniyere dashtson k'on s'iilo fale tuwe.

Ariya:-

- Toos'a eto eg et bwotok'o bokeewitu wok'o aata (aap'ona).
- Tungusha etoget bwotok'o bokeewi tuwok'o aata.
- Gurka eto eg bwotok'o bokeewish aata.
- Toos'a, tungusha gurka etiruwotsi bokeewituwok'o wosha.

AAP'I K'OOOLA GLOSSERIES /መዳዎ ቃላት/

በ ስ ራ ላ ይ የ ዋ ለ ው ቃ ል (terms used in (1))	የ ቃ ሉ ት ር ጉ ም በ አ ማ ር ኛ /አ ን ግ ሊ ዘ ኛ	የ ሚ ገ ኝ በ ት በ ታ የ ት /ት ዓ ይ ነ ት ፣ ገ ፅ መ ስ መ ር	የ ተ ር ጓ ሚ ዎ ች አ ስ ተ ያ የ ጽ
Ak'mara Aran (ara)	ጥ ቁ ር ስ ሌ ዳ /block board/ ስ ዕ ል /Picture)	ገ ፅ 4 መ ስ መ ር 6 ገ ፅ 78 መ ስ መ ር 1	
Arama (ariyi)	ማ ሪ ም /correct/		
Bad'ts k'oswotsi	ዝ ር ዝ ር አ ላ ማ /specific objectives)	ገ ፅ 111 መ ስ መ ር 4	
Bo'atse'atse yo	ዕ ር ስ በ ር ሳ ች ው	ገ ፅ 72 መ ስ መ ር 1 Paragraph 1	
Bana	ድ ር ሻ /quotient/		
Bosihyetu wok'o	አ ን ዲ ወ ያ ዩ /discussing each other/	ገ ፅ 78 par 1 መ ስ መ ር 4 ገ ፅ : 73 para 2	
B kaata (kaata)	አ ቅ ጣ ጫ /direction/	መ ስ መ ር 1 ገ ፅ 5 para 1	
Bkawa	ታ ይ ቶ /side to side/	መ ስ መ ር 5	
Cartiya	ቻ ር ት /chart/	ገ ፅ 10 7 para 2 መ ስ መ ር 5	
Dabeyiruwotsi	ቲ ዲ ማ ረ ዎ ች /sdenda/	ገ ፅ 28 para 2 መ ስ መ ር 3	
Guupa	ማ ቃ ለ ል /summarizing/	ገ ፅ 111 para 3 መ ስ መ ር 4	
Ka'iyotsi	ም ድ ብ /group/	ገ ፅ 27 para 3 መ ስ መ ር 1	
Kap'a		ገ ፅ 62 para 1	

<p>Kardiyotsi</p> <p>Kep'a</p>	<p>ማስመር</p> <p>ካርዶች /cords/</p> <p>ቅንፋት /bracket/</p>	<p>መስመር 2</p> <p>ገፅ 1 para 1</p> <p>መስመር 14</p> <p>ገፅ 10 9 para 3</p> <p>መስመር 4</p> <p>ገፅ 10 7 para 2</p> <p>መስመር 1</p> <p>ገፅ 53 para 2</p> <p>መስመር 3</p>	
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AAP'I K'ooLA /ሙዳዬ ቃል / GLOSSeries

<p>በስራ ላይ</p> <p>የዋለው ቃል</p> <p>(terms usedin (1)</p>	<p>የቃሉት ርጉም</p> <p>በአማርኛ /</p> <p>እንግሊዘኛ</p>	<p>የሚገኝበት ቦታ የት/ት</p> <p>ዓይነት፣ ገፅና መስመር</p>	<p>የተርጓሚዎች</p> <p>አስተያየት</p>
<p>Kompiteriya</p> <p>Kishitera</p> <p>Mak'asiyi shapon</p> <p>Niyir niyira</p> <p>Serera</p> <p>S'ap'a</p> <p>S'awi shaana</p>	<p>ኮምፒውተር</p> <p>/compiter/</p> <p>ሙዳዬ</p> <p>የመቀስ</p> <p>ቅርፅ</p> <p>ተራበተራ</p> <p>ሳል /draw/</p> <p>መሠረት</p> <p>/base/</p> <p>ዝርግ</p> <p>ሠዓን</p>	<p>ገፅ 122</p> <p>ገፅ 29 payo 5 መስመር 2</p> <p>ገፅ 122 /A/</p> <p>ገፅ 5 parol መስመር 4</p> <p>ገጽ : 103 parol 1 eHeI 9</p> <p>ገጽ : 107 par 3</p> <p>eHeI 4</p> <p>ገፅ 122 par 4</p> <p>መስመር 1</p>	<p>አማርኛ /English/</p> <p>የተወሰደ</p> <p>አባቶቻችን ዱሮ</p> <p>ቤት ሲሠሩ ከመተራ</p> <p>በኋላ ከፍሉን</p> <p>ከቡን በመሠል</p> <p>የተቀመጡት ቃል</p> <p>ነው</p>

