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TEKNOLOGIYA

Ullwma orta bilim beriw mektepleriniń
1-klası ushin sabaqlıq

Qayta islangen hám tolıqtırılğan
besinshi basılım

Ózbekstan Respublikası Xalıq bilimlendiriw
ministrliği tárepinen
tastıyqlanğan

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- Tashkent qalasındaǵı 144-uliwma orta bilim beriw mektebiniń texnologiya pání muǵallimi;
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SHÁRTLÍ BELGILER:



– muǵallim oqıp beredi;



– toparda isleymiz;



– ámeliy jumıs;



– pikirleymiz, juwap beremiz;



– ata-analar járdeminde tayarlaymız;



– óz betinshe jumıs islew.

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1-sabaq. TEXNOLOGIYA PÁNI HAQQÍNDÁ TÚSINIK



Súwretke diqqat penen qarań!



Qala kóshelerinen biri súwretlengen. Súwrette nelerdi kórip tursız?

Onnan tábiyy hám insan tárepinen jaratılğan zatlardı tabıń hám aytıń.

INSAN JARATQAN DÚNYA



Bul bólmedegi zatlar biz ushın ke-
rek pe? Olardı kim tayarlağan? Qanday
materiallardan tayarlangan?



Súwretlerde kórsetilgen buyımlar qan-
day materiallardan tayarlangan? Insan
bul zatlardı tayarlaw ushın materiallardı
qay jerden alğan?

 Súwretlerge qarań. Olarda súwretlengen kásip iyeleri qanday jumisti ámelge asırmaqta? Olardıń kásibin aytıń.



Hárbir kásip iyesine kerek bolatuǵın ásbaplardı tańlań.

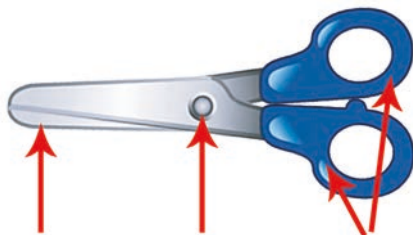


 Texnologiya páni materialǵa tuwrı islew beriw usılların úyretedi.



QÁWIPSIZLIK TEXNIKASÍ QAĖÍYDALARÍ

Qayshí menen islew qaĖíydası
Qayshí qalay dúzilgen?



Júzi Burama shege Halqa



Ne ushın qayshını súwrette kórsetilgendey etip beriw kerek?



Siz ne dep oylaysız, ne ushın qayshı qapqa salıp qoyıladı?

Qayshı menen uzınsha qaĖazdan úsh-múyeshlik hám kvadrat formaların qıyıń.



Jumıs stolı

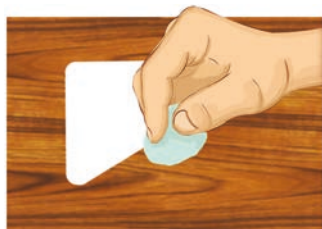




Jelim menen islew qag'iydasi



Jelimdi ortadan shetke qarap súrtiń.



Artıqsha jelimdi sıırıp alıń. Ústine zat qoyıp keptiriń.



Qılqálemdi paydalanıp bolgannan soń, juwıp qoyıń. Jelim ıdıstı jabıq halında saqlań.



2- sabaq. «ALTÍN GÚZ» KÓRINISIN SOǒIW

Tábiyat ráńbáreń hám gózzal. Insan dóretiwdi hárdayım tábiyattan úyrenen.



Qarań, tábiyiy maretiallardan tábiyat gózzallıǵın qalay jaratıw múmkin? Onda qanday tábiyiy materiallardan paydalanılǵan?



Oylap kóriń. Ne ushın tábiyattı qorǵaw kerek?



JAPÍRAQ PENEN ISLEW

Japıraqlardı qalay keptiriw kerek?

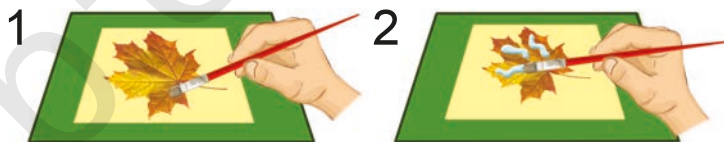
Túsken japıraqlardı terip alıń.



Ústine zat qoyıp keptiriń.



Japıraqtı súwrette kórsetilgen tártipte jabıstırıń.





ALTÍN GÚZ KÓRINISIN JAPÍRAQLARDAN PAYDA ETIW



Óz betińizshe japıraqlardan altın
gúz kórinisin jasań.





3- sabaq. JAPÍRAQLARDAN NAĖÍS KOMPOZICIYASÍN JARATÍW

Súwrette japıraqlardan dúzilgen naĖís kompoziciyası berilgen. Salıstırın. Qaysı biri sizge unadı? Ne ushın?

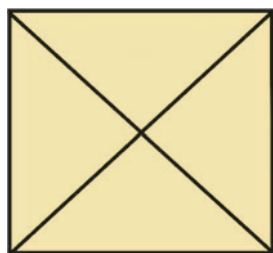


Kompoziciya — súwretlewdi bir-birine salıstırmalı belgili tártipte jaylastırıw.

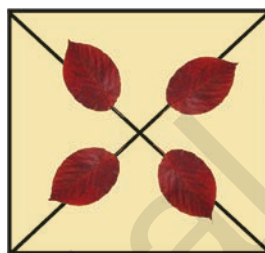




Nağıs dúziw ushın japıraqlardı saylap alıń hám qalay jaylastırıwdı oylap kóriń.



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Eslep qalıń! Japıraqtı qayshı menen qıymań, onıń kereklesin tańlap alıń. Jabıstırıwda jelimdi japıraqtıń tamırlarına jağıń. Jumıstı tamamlagannan keyin ústine zat qoyıp keptiriń.



4 - sabaq. JAPÍRAQLARDAN QUSTÍN FORMASÍN SOǒÍW



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Ózińiz soǒıwǵa háreket etip kóriń.





TÁBIYIY MATERIALLARDAN KISHKENE QUSTÍN FORMASÍN SOǒÍW



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5 - sabaq. JAPÍRAQLARDAN HAYWANLAR FORMASÍN SOĞÍW



Súwrette neler kórsetilgen? Ol qanday bólimlerden ibarat? Qoyandi soğıw ushın sizge qanday formadağı japıraqlar kerek boladı? Qoyan jasawdıń izbe-izligin baqlań hám ózińiz de jasań.



SALÍSTÍRÍN





6- sabaq. JAPÍRAQLARDAN QUSLARDÍ SOGÍW



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7- sabaq. TÁBIYIY HÁM HÁR TÚRLI MATERIALLARDAN QUSLARDÍ SOǒÍW



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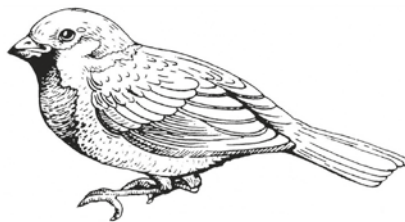


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Ózińiz soǒıp kóriń.





8- sabaq. TÁBIYIY HÁM HÁR TÚRLI MATERIALLARDAN KOMPOZICIYA JARATÍW



Ósimlikler tábiyattıń bir bólegi bolıp esaplanadı. Olar xudojnik-ustalardıń dó-retiwshilik penen shuǵıllanıwı ushın hár túrli materiallar beredi. Xudojnik-ustalar ushın tábiyat qanday materiallardı beredi? Aytıp berıń.



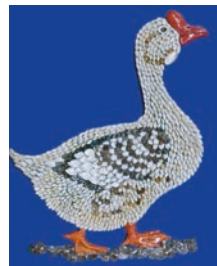
Dıqqat! Shaqa, japıraqlardı terekten úzbeń hám sındırmań. Tek ǵana jerge túskenin alıń. Tábiyattı qorǵań!



9 - sabaq. TUQÍMLARDÍ JÍYNAW HÁM SAQLAW



Jaz hám gúzde ósimlikler tuqım payda etedi. Súwrette berilgen tuqımlar qaysı ósimlikler tuqımı ekenin tabıń.



Eslep qalıń! Tuqımlardı seyilge shıqqanıńızda jıynap keliń, jaqsılap juwıń hám keptiriń. Sońınan ıdıslarda saqlań.



10- sabaq. TUQÍMLARDAN NAĖÍS SOĖÍW



Reñli kartonnan eni 3 sm, uzunlıđı 9 sm bolđan tuwrı tórtmúyeshlik formasın qıyıp alıń, qálem menen teń bóleklerge bólip shıđıń. Onıń ishine naĖıs sızıp alıń, sońınan jelim yaki plastilin menen tuqımlardı naĖıs ústine jabıstırıp shıđıń.

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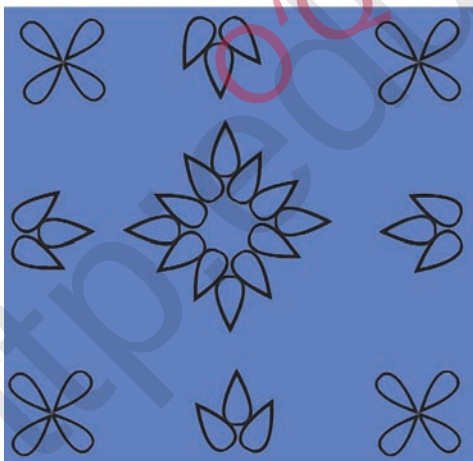
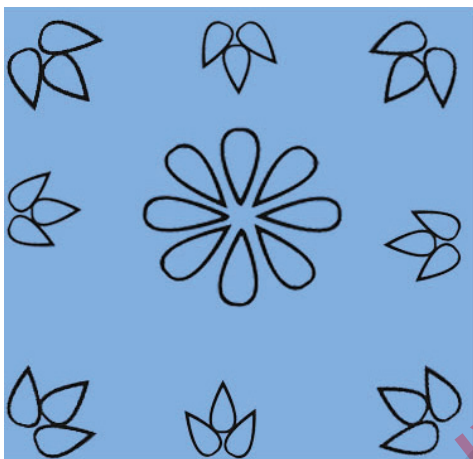


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ÓZIÑIZ SOĞÍP KÓRIÑ

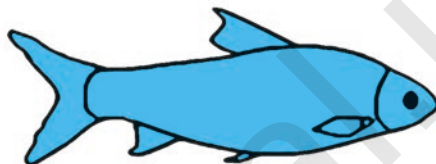




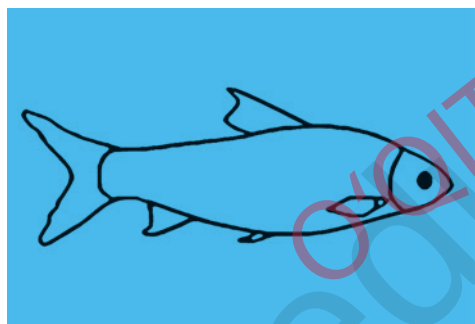
11- sabaq. BALÍQTÍN FORMASÍN SOGÍW



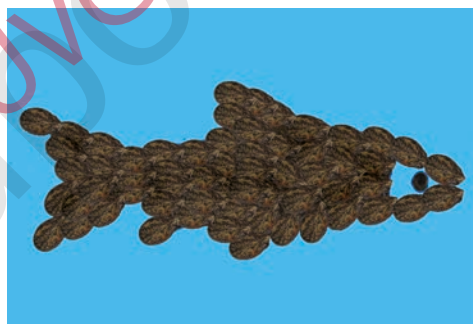
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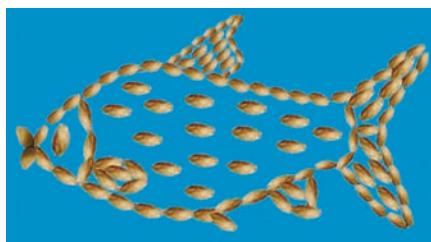


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Ózińiz soǵıp kóriń.





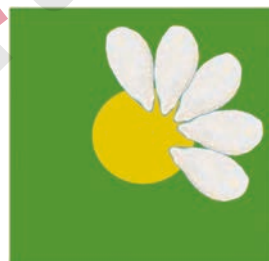
12- sabaq. ROMASHKA GÚLIN SOǒÍW



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Ózińiz soǒıp kóriń.





ÓZIÑIZDI TEKSERIÑ



Muğallimiñiz hám ata-anañızdı quwandırıñ. Neni biliwiñızdı, orınlay alıwıñızdı kórsetiñ. Durıs juwaptı tañlañ.

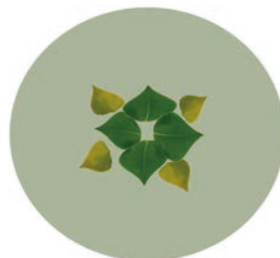
Tábiyiy materiallar menen islewde qanday ásbaplardı paydalanasız?



Tábiyiy bolmağan material degen ne?



Qaysı súwrette nağıs durıs jasalğan?



Klaslaslarıñız benen juwaplardı talqılañ.



QAĞAZ HÁM KARTON MENEN ISLEW

Qağaz — bul bizge hárdayım kerek bolatuğın material bolıp esaplanadı.



Siz qağazdan islengen qanday buyımlardı bilesiz? Súwretke jaqsılap qarań. Bul buyımlar kimge hám ne ushin kerek?



Kartondı reńli qağazlarıńız arasınan tabıń. Qanday uqsaslıq bar? Hár túrli qağazlardı uslap kóriń. Neni baqladıńız? Qağazdıń ayırmashılıqların aytıń.

13- sabaq. QAĞAZ HÁM ONÍŇ TÚRLERI



Jaziw qağazı.



Gazeta qağazı.



Karton.



Súwret qağazı.



Sawğanı oraytuğın qağaz.

QAĞAZ BENEN ISLEW



Úlgi boyınsha belgilew.



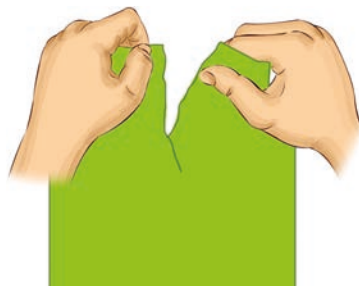
Qıyıw.



Qıyıp alıw.



Oraw.



Jırtıw.

Siz qalay oylaysız, qağaz benen jáne ne islew múmkin?

QAĞAZDÍ BÚKLEW HÁM QÍYÍW USÍLLARÍ



Búkleeń.

Qıyıń.



Búkleeń.

Qıyıń.



Búkleeń.

Qıyıń.



Búkleeń.

Orań.



KISHI USTA OYINI

Gózzallıqtı birgelikte jaratamız.
Siz ushın tómendegiler kerek boladı:



Endi siz qağaz benen islew qağıyda-
ların bilip aldıńız.

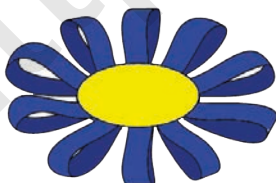
Qağazdan zatlar sóıwda olardan pay-
dalanıń.



Qağaz betinen neler payda boldı?

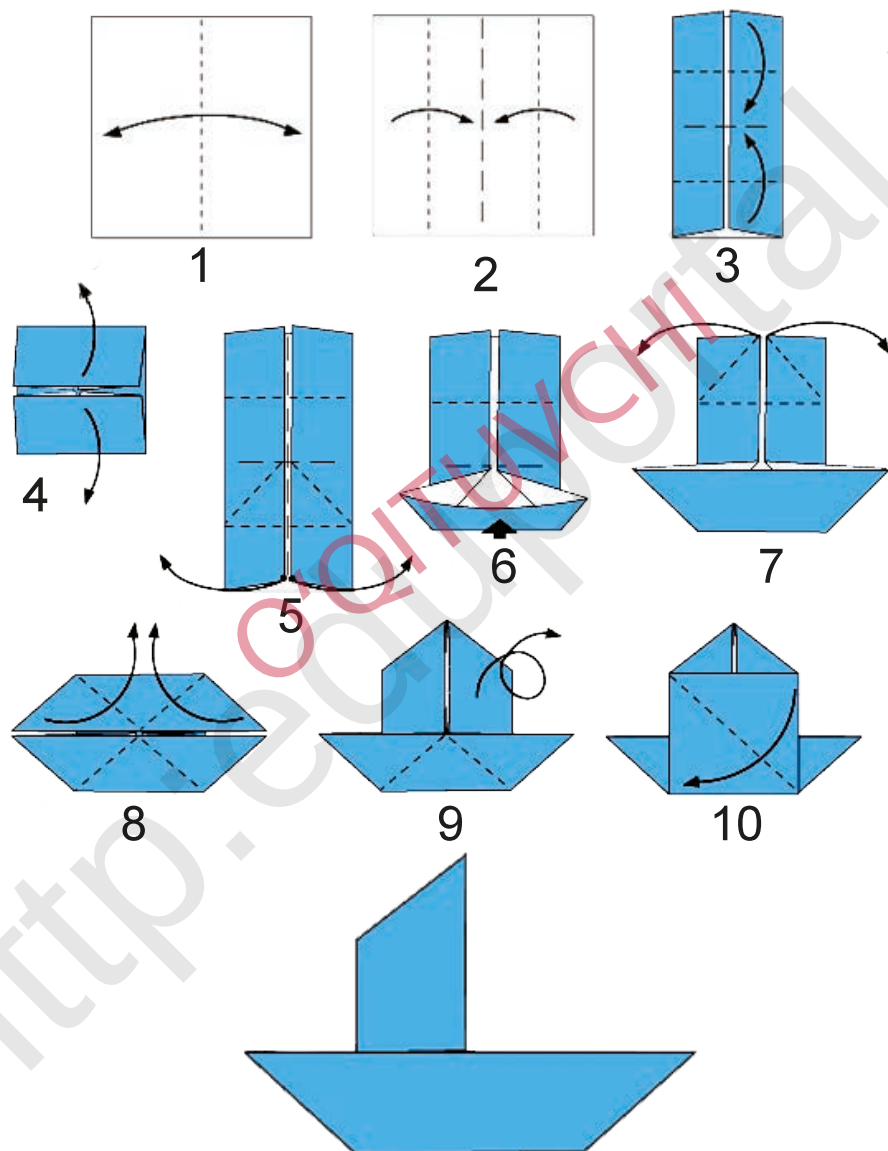
Tapqırlıǵıńızdan paydalanıp, berilgen
formalardan qanday da bir kórinis jasadı
kóriń.

Tómendegiler nege uqsaydı?



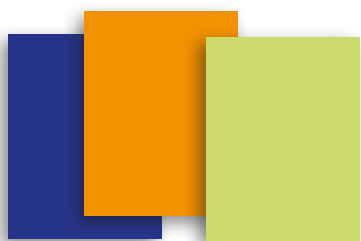


QAYÍQ SOǴIW

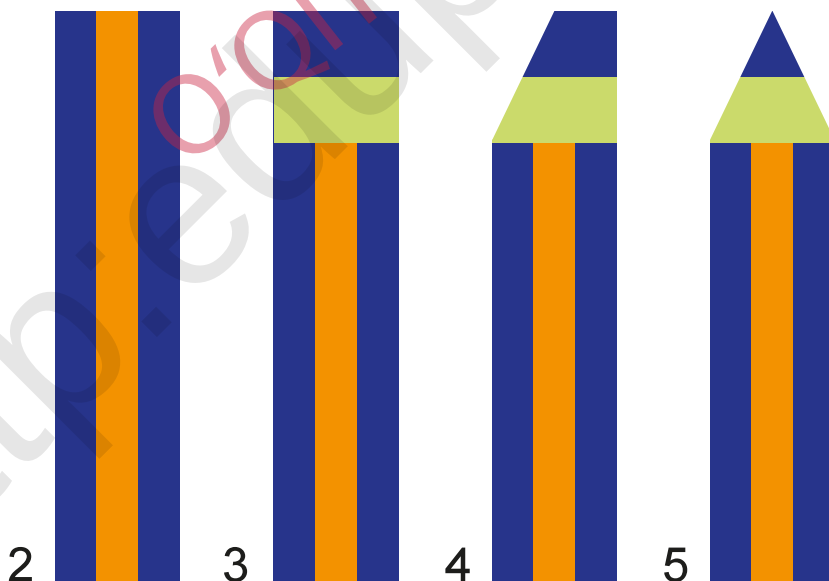




14 - sabaq. KITAP USHÍN BELGI SOǒǒIW

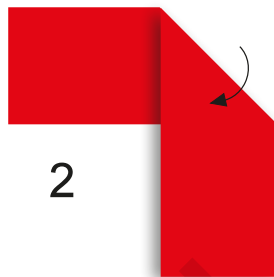


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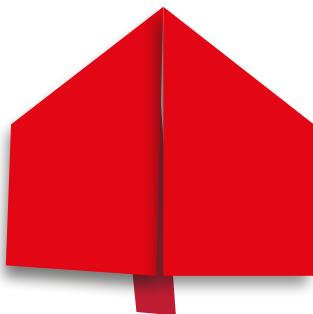




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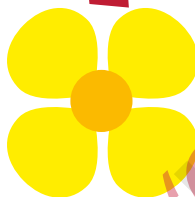
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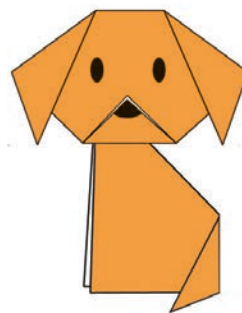
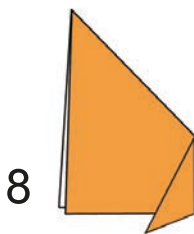
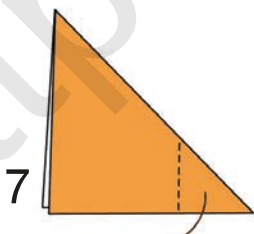
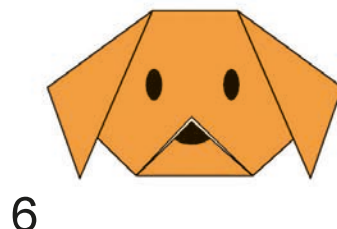
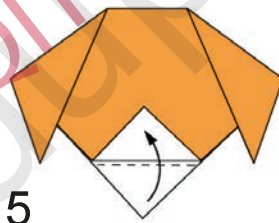
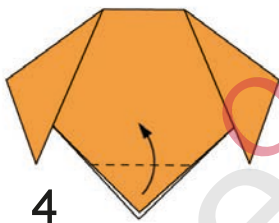
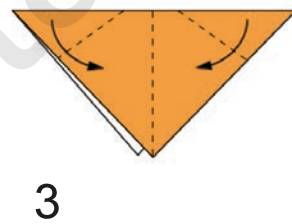
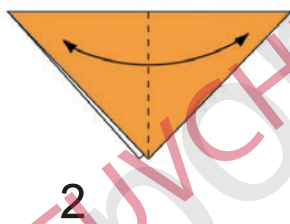
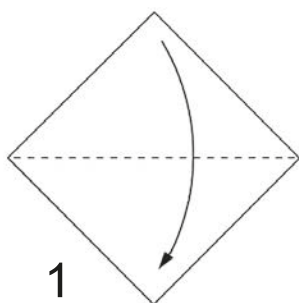
Kitap ushin belgi ne maqsette soǵiladi?

Ol sizge ne ushin kerek boladi?



15- sabaq. QAĞAZDAN KÚSHIK SOĞÍW

Qağazdı búklew texnikası tiykarında formalar soğíw óneri **origami** dep ataladı.





JAÑA JÍL USHÍN OYÍNSHÍQLAR TAYARLAW

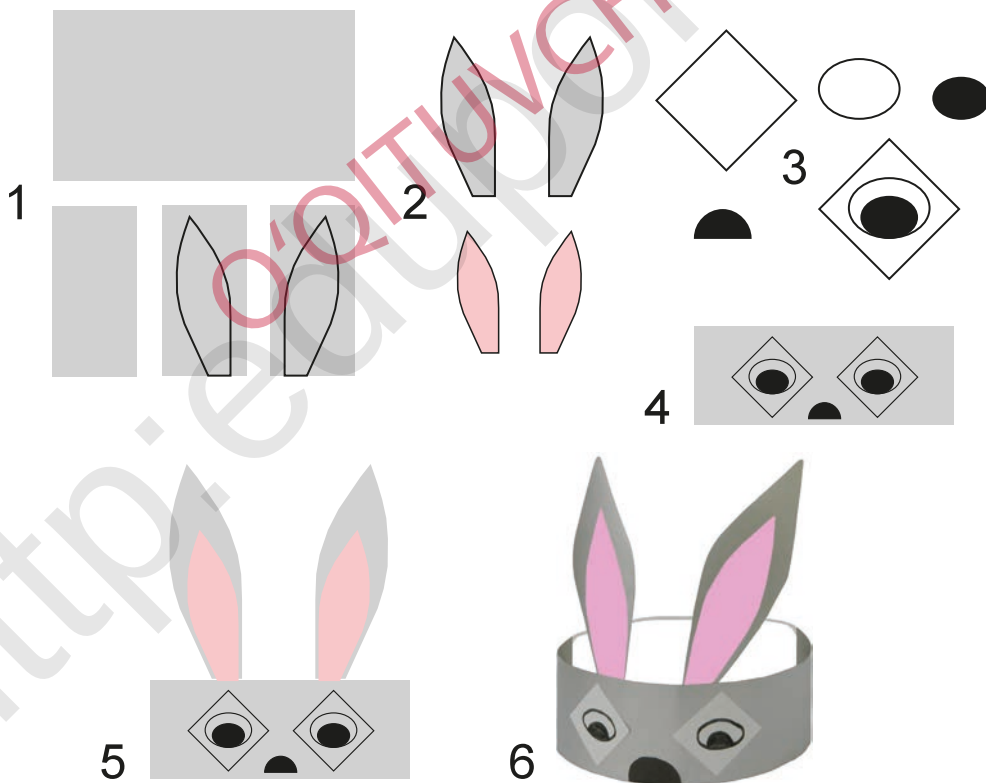
1-yanvardan Jaña jil baslanadı. Bayram bezew zatların soǵıp, klass bólmėńizdi bezeń.





16 - sabaq. BAYRAMLAR USHÍN NÍQAPLAR TAYARLAW

Qoyanniń nıqabın soǵıw





Ayıw nıqabın soǵıw



Qaǵazdı ekige búklep, úlgi tiykarında ayıwdıń bas bólimin sıziıp alıń.



Sızıq boylap qıyıń. Arasın ashıń, qálem menen qasların hám tumsıǵın sıziń hám boyañ.



14-yanvar — «Watan qorgawshilari kuni»

Armiyamiz — biziñ tinishligimiz tiregi. Kúshli, batır áskerlerimiz jerde, suwda, hawada xızmet etedi.



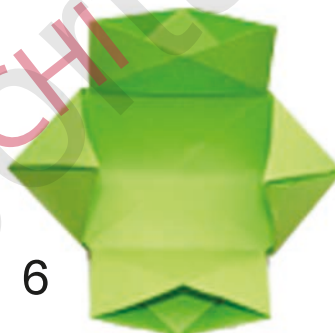
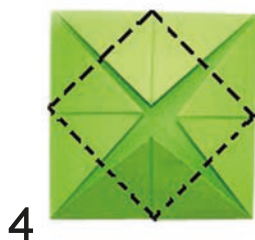
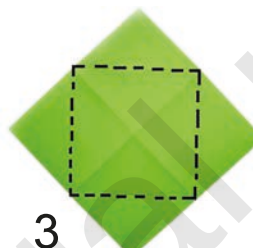
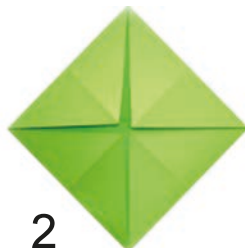
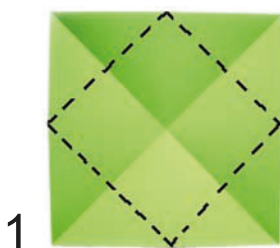
 Olardıñ xızmeti qanday texnika menen baylanıslı?



Shańarağıńızda xızmet etken yamasa xızmet etip atırǵanlar bar ma? Olar ushın sawǵalar tayarlań.



17 - sabaq. QAĞAZDAN OYÍNSHÍQLAR SOĞÍW

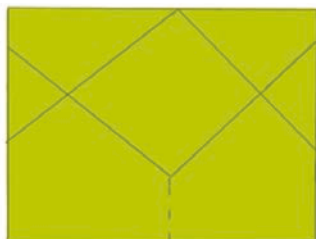


Soqqan kemeńizden siz qalay paydalanbaqshıńız? Onı kimgе sawǵa etiw mǘmkin?

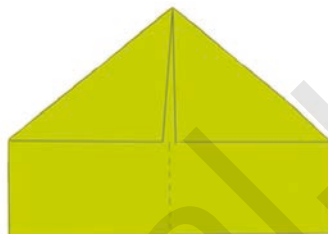


Ushatug'in planer so'g'iw

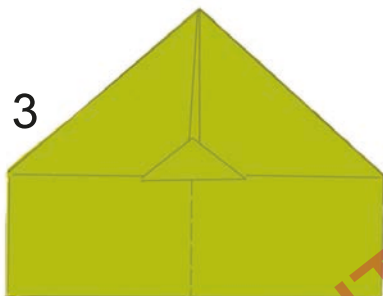
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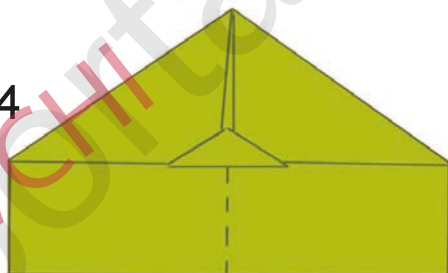
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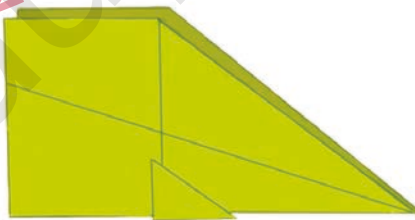
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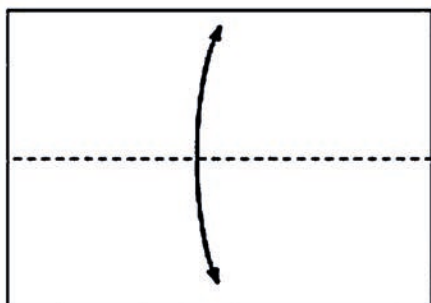


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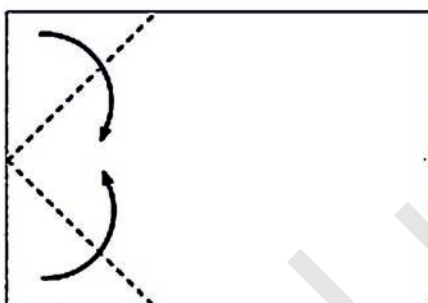


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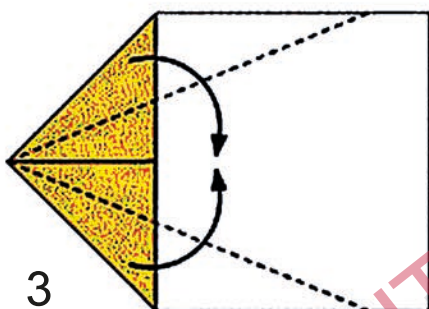




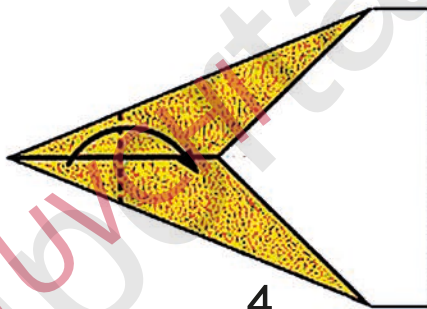
1



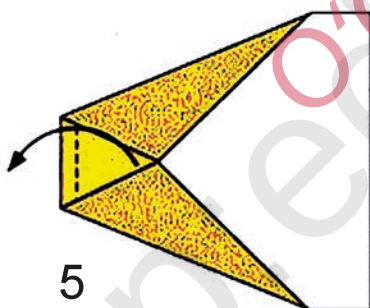
2



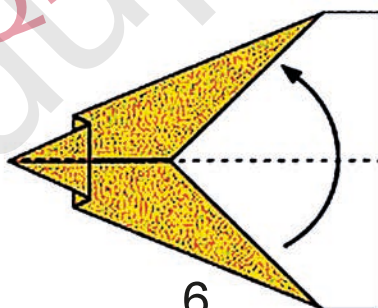
3



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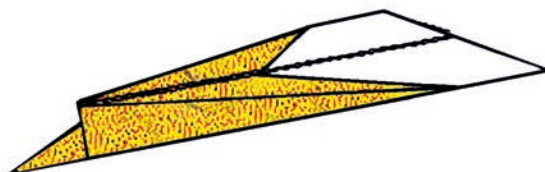
5



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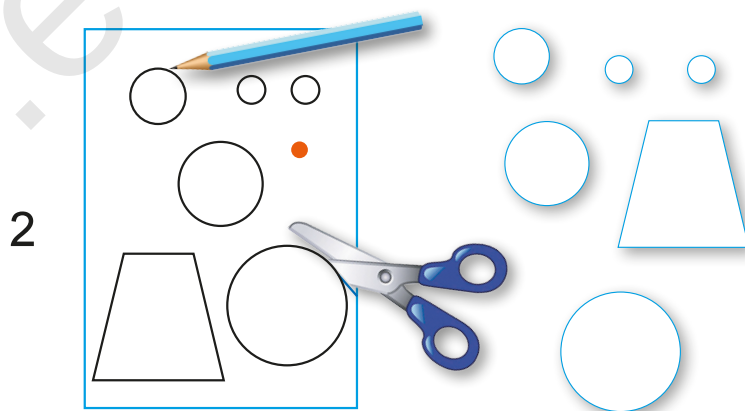
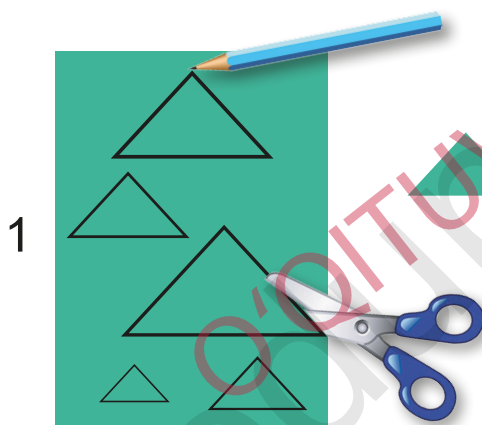


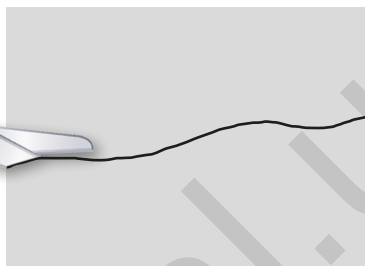
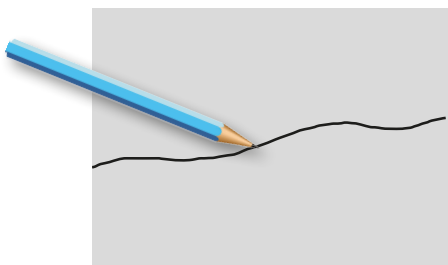
7





18-sabaq. QÍS KÓRINISIN APPLIKACIYA USÍLÍNDÁ ISLEW

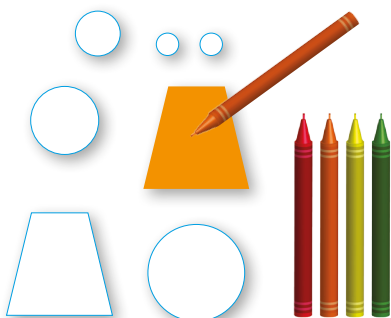




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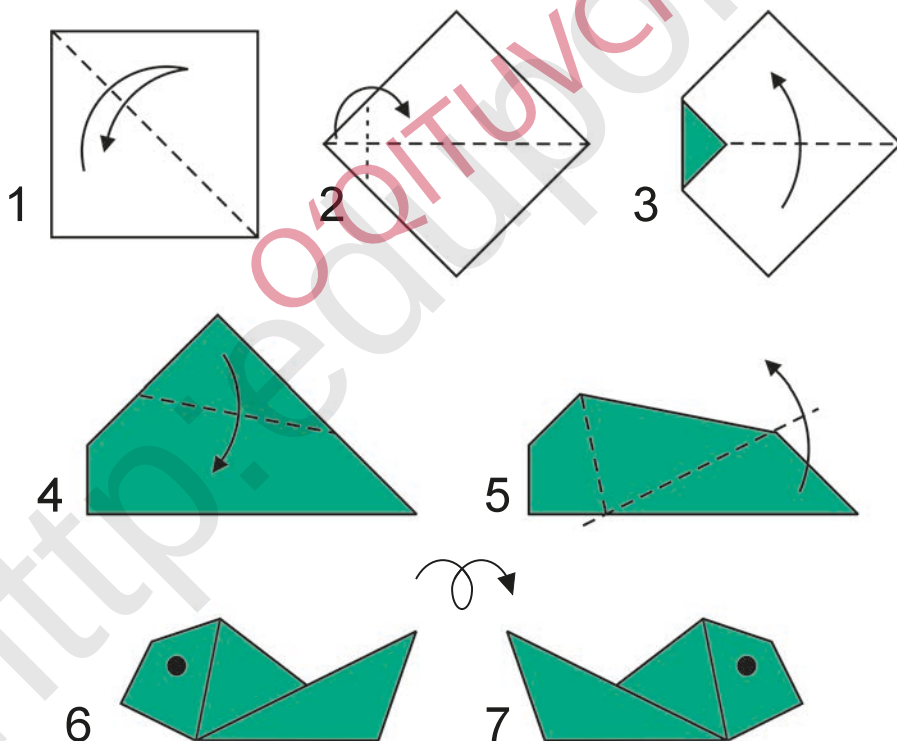
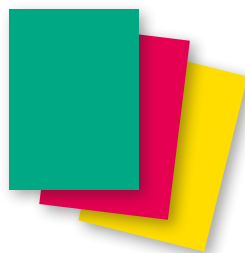


6





19-sabaq. REŃLI QAĞAZDAN JANÍWARLARDÍŃ FORMASÍN QURASTÍRÍW-SOĞÍW





1



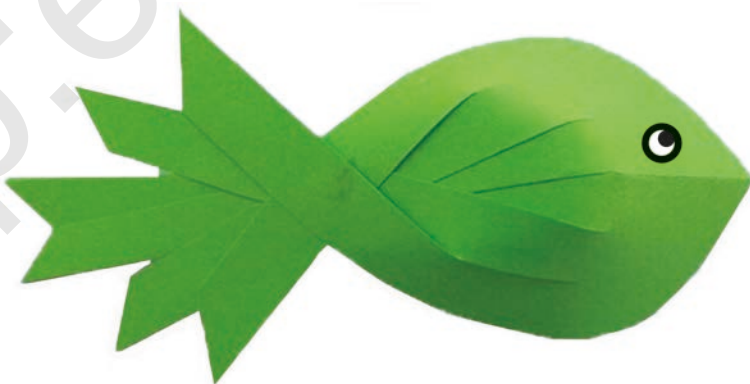
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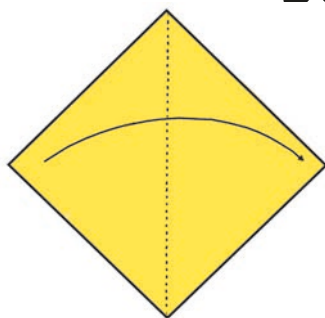


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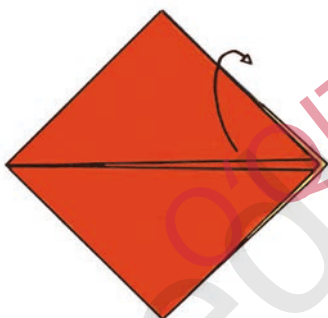
20-sabaq. QAĞAZDAN TÚLKI- NIŇ FORMASÍN QURASTÍRÍW- SOĞÍW



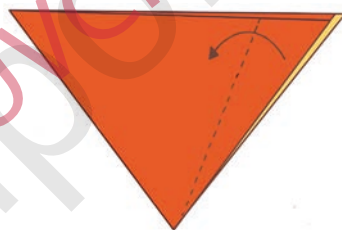
1



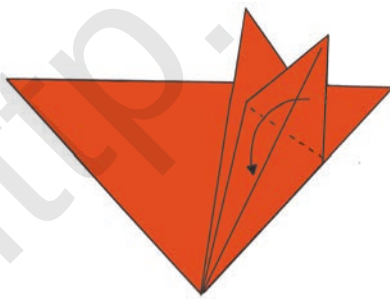
2



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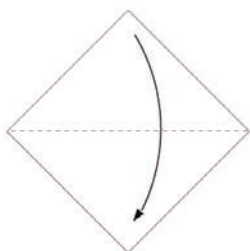


5

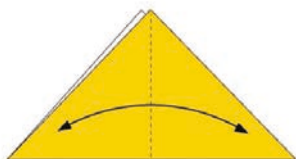




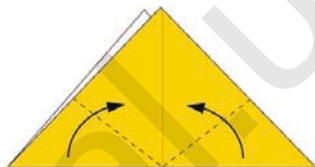
QAĞAZDAN PÍSHÍQTÍN FORMASÍN QURASTÍRÍW-SOĞÍW



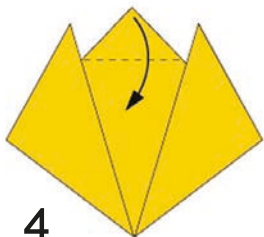
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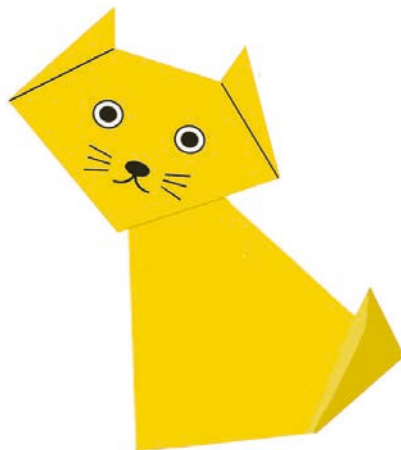
8



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21 - sabaq. MOZAIKA HAQQÍNDÁ TÚSINI

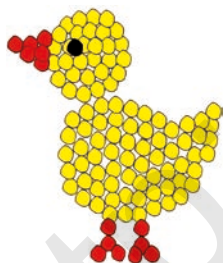


Mayda qagaz bólekshelerin qalay jabistiriw múmkin?

Quslar qalay súwretlengen? Nesi menen uqsas?



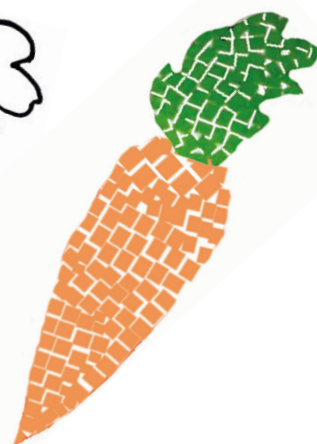
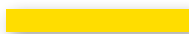
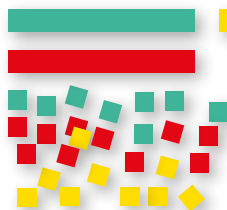
Mozaika — mayda bólekshelerden dúzilgen naǵıs hám súwret bolıp esaplanadı.

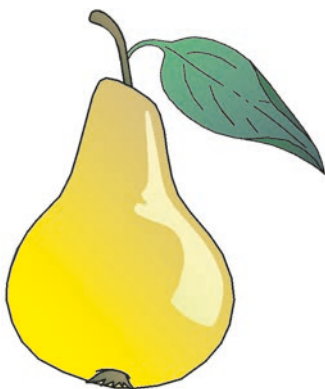
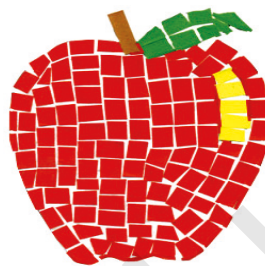


Oylap kóriń, mozaika jaratiw ushin qanday qagaz qolaylı boladı? Juqa qagaz ba yaki qalıń qagaz ba? Qagaz bólekshelerin qalay jabistiriw kerek eken?



22- sabaq. MOZAIKA USÍLÍNDÁ PALÍZ ÓNIMLERINIŇ FORMASÍN SOĖÍW





Salfetka qag'azın mayda etip qıyıp, domalaq formağa keltiriń hám onı sızıp alǵan úlgińizdiń ústine bir tegiste jabıstırıń.





23- sabaq. DIZAYNERLIK KÁSIBI

Dizayn — bul oylaw, sızıw, joybarlaw.

Dizayner — joybarlawshı xudojnik bolıp tabıladı.

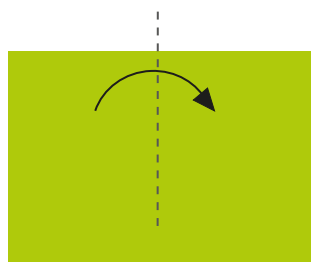
Dizaynerlik kásibi — kórkem óner estetikası boyınsha qánigeli xudojnik.

Dizaynerlik qızıqlı kásip. Bul kásiptegi insanlar hárdayım jańa buyımlardı oy-lap tabadı. Bular úy úskeneleri, kiyim-ler, texnikalıq ásbaplar hám júdá kóp basqa buyımlar bolıwı múmkin. Súw-rette berilgen buyımlardıń dúzilisi hám bezetiliwindegi ayırmashılıqlardı tabıń.





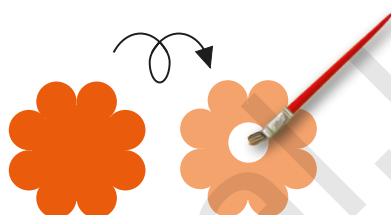
8-MART BAYRAMINA QUTLIQLAWNAMA TAYARLAW



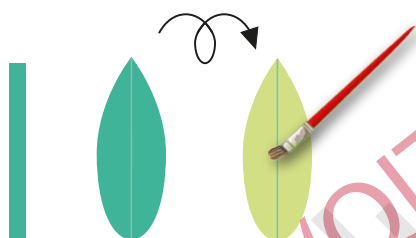
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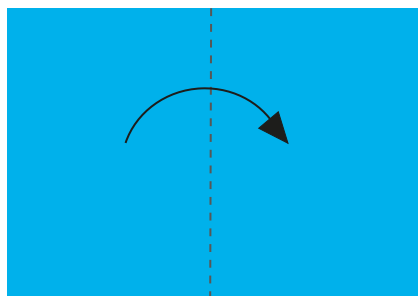


7





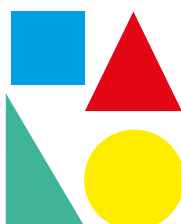
24-sabaq. NAWRÍZ BAYRAMÍNA QUTLÍQLAWNAMA TAYARLAW



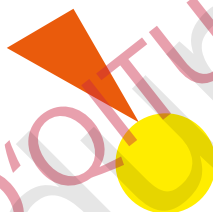
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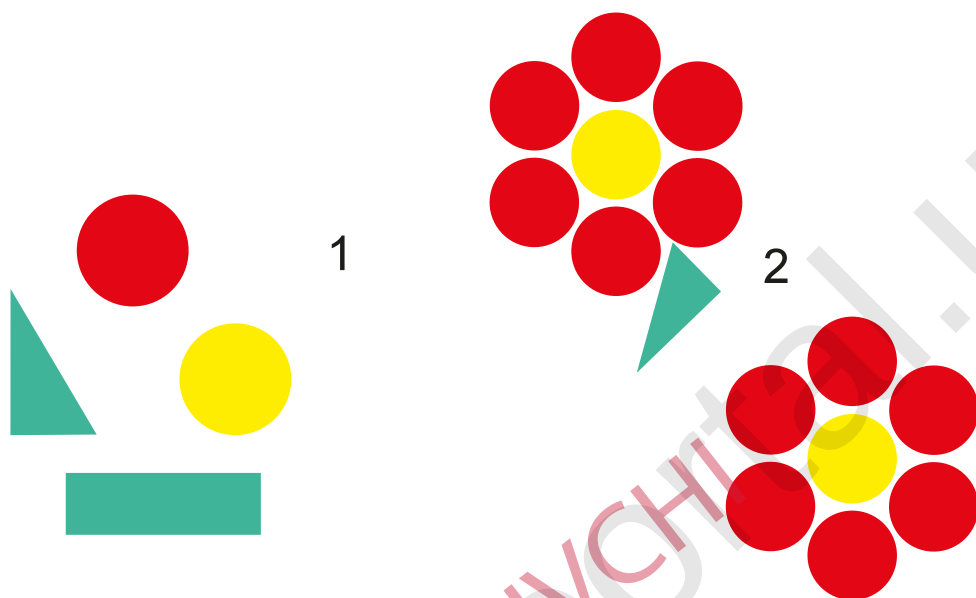


4



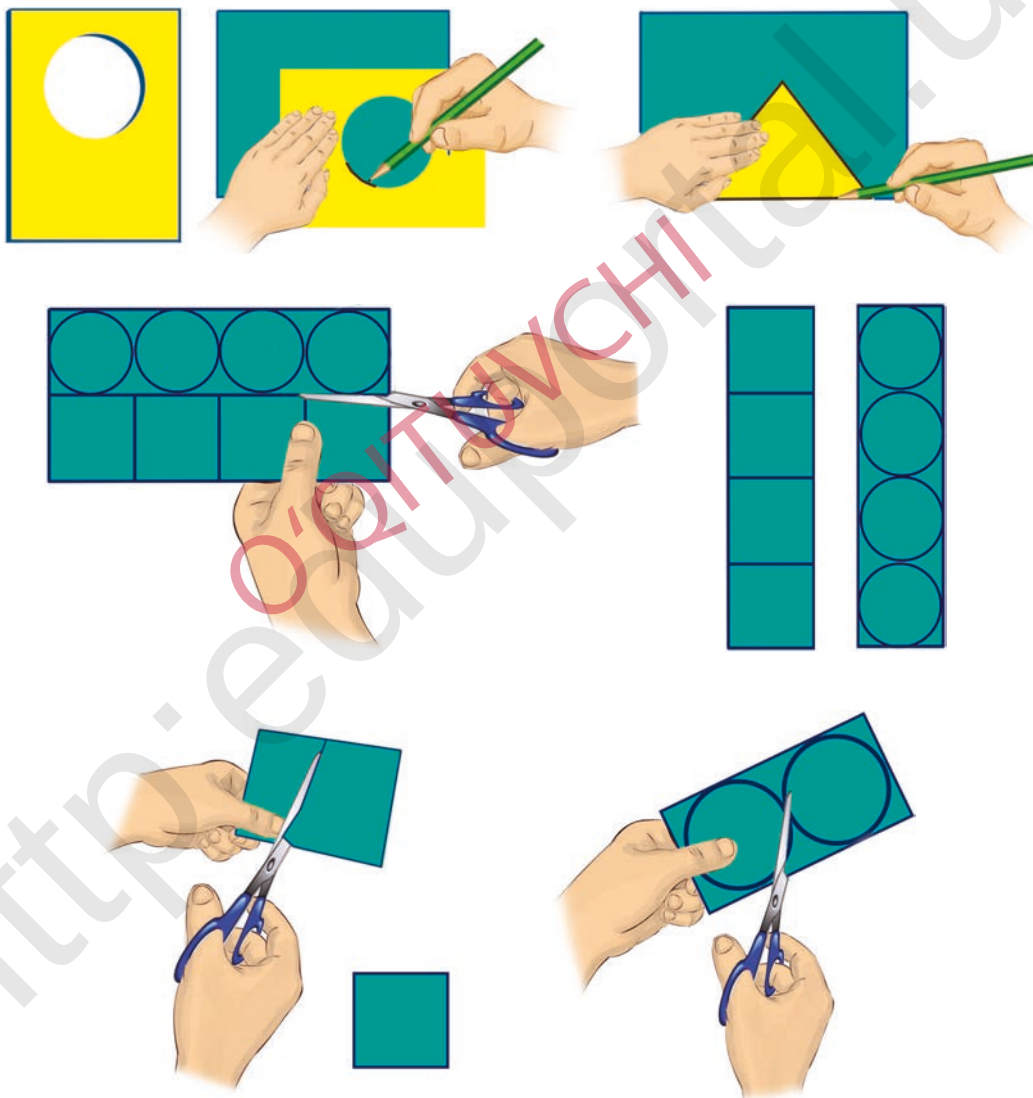
5





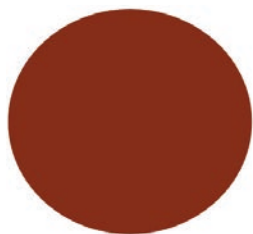


25- sabaq. GEOMETRIYALÍQ FORMADAGÍ QAĞAZLARDÍ QÍYÍW USÍLLARÍ





26 - sabaq. GEOMETRIYALÍQ FIGURADAĞÍ QAĞAZLARDAN HÁR TÚRLI HAYWANLARDÍN FORMASÍN SOĞÍW



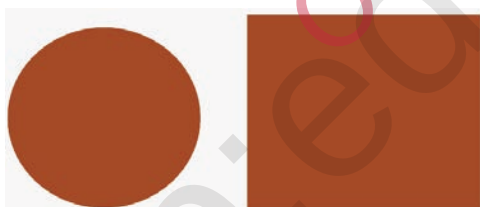
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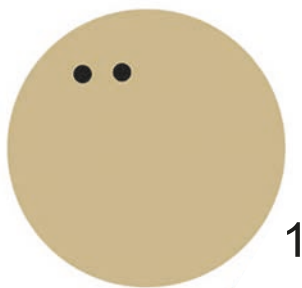


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GEOMETRIYALÍQ FIGURADAĞÍ QAĞAZLARDAN QUSLARDÍN FORMASÍN SOĞÍW





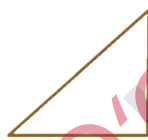
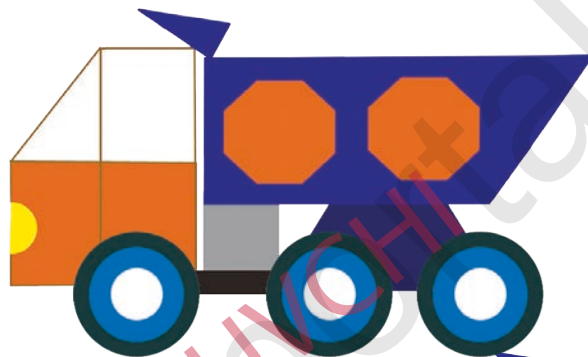
HAYWANLAR KÓRINISIN BAQLAÑ HÁM SOǴÍP KÓRIÑ

Súwrette qanday haywanlar súwret-
lengen? Olardı soǵıw ushın siz qanday
formadaǵı qaǵazlardan paydalanıwıńız
lazım?





27 - sabaq. GEOMETRIYALÍQ FORMADAĞÍ QAĞAZLARDAN MASHINA QURASTÍRÍW- SOĞÍW



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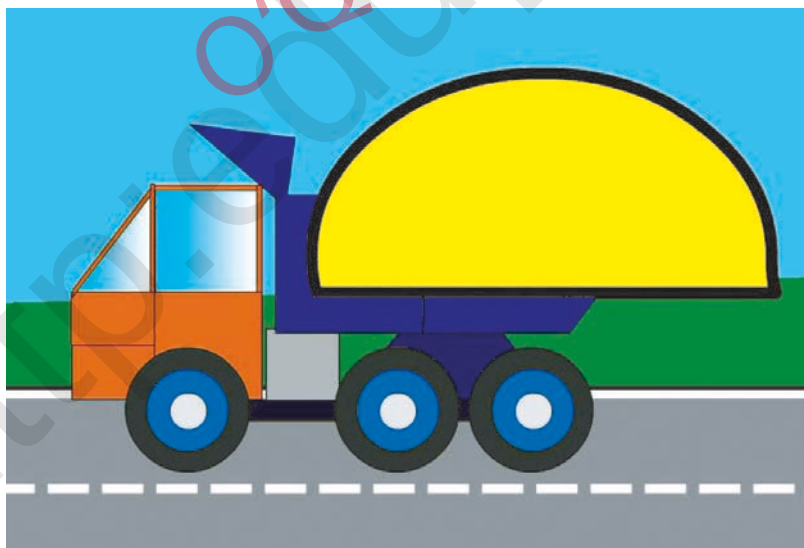
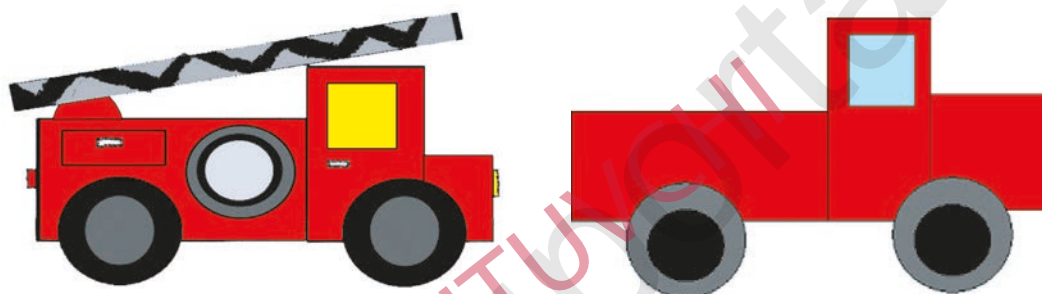


9



BAQLAÑ HÁM SOĞÍP KÓRIÑ

Súwrette qanday mashinalar súwretlengen? Usı súwretlerge qarap óziñiz mashinaniñ formasın óz betiñizshe soğıp kóriñ.



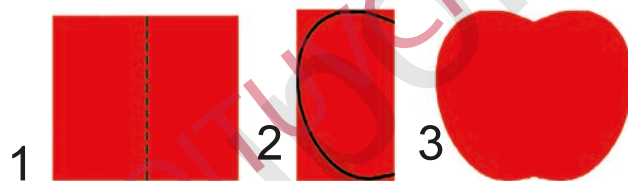


28- sabaq. MIYWE HÁM PALÍZ ÓNIMLERIN SIMMETRIYALÍ FORMALARDAN SOǒÍW

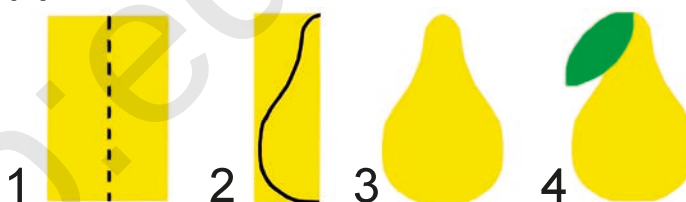
Súwretke diqqat penen qarań. Qa-
ǵaz ekige búklengennen keyin qan-
day jumis ámelge asırıladı?



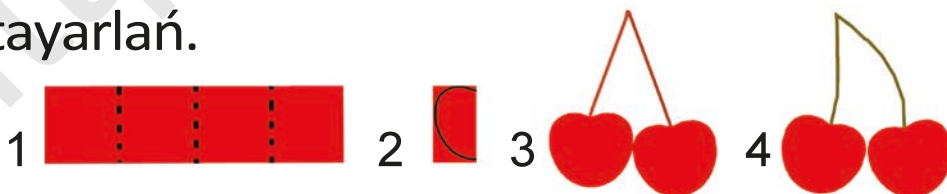
Almanıń formasın qaǵazdı ekige
búklew jolı menen tayarlań.

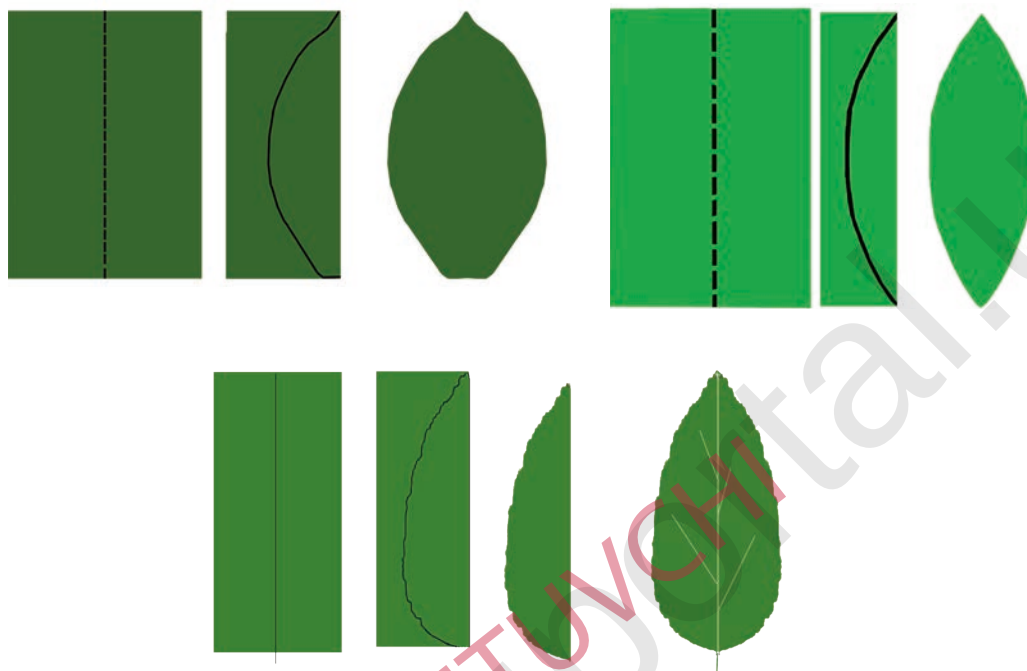


Uzinsha formadan almurttiń forma-
sın qıyıń.



Qaǵazdı búklep, alshaniń formasın
tayarlań.





Tayarlagan miywelerińizdi tarelkaǵa salıń.





29-sabaq. QURÍLÍSSHÍ KÁSIBI

Kóshege shıqsańız, úy, mektep, baqsha hám dúkánlardı kóresiz. Bul imaratlardı qurıwda gerbish óriwshi, sıbawshı, aǵash ustası, boyawshı hám basqa kásip iyeleri birgelikte miynet etken.

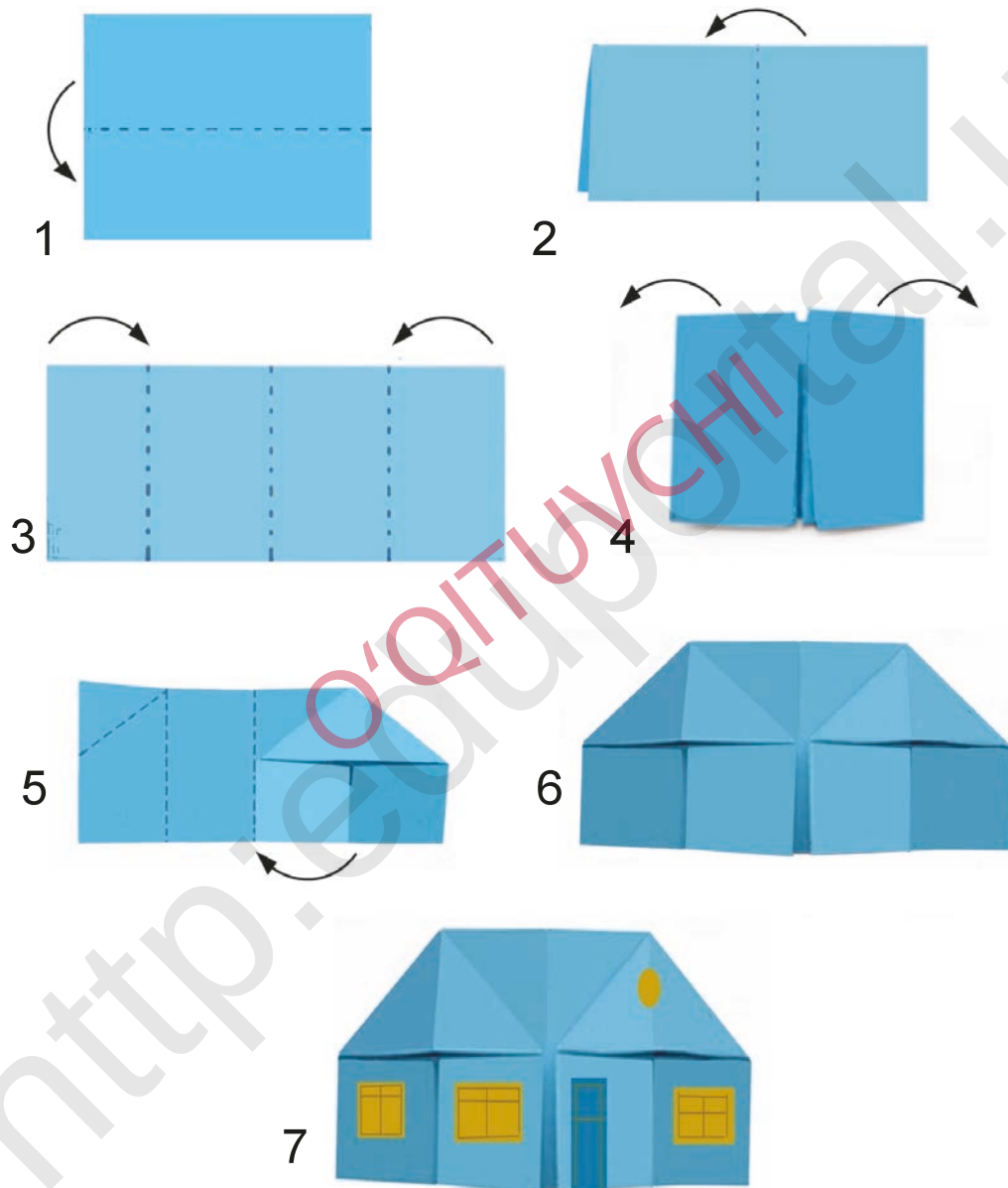


Aytıńshı, kim qanday jumıs islemekte?

Olardıń kásibi qalay ataladı?



JAYDÍŇ MAKETIN SOǴÍW





So'g'wga háreket etip kóriń.



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30- sabaq. QAĞAZDAN «SEBETDEGI GÜLLER»DI QURASTIRIW-SOĞIW



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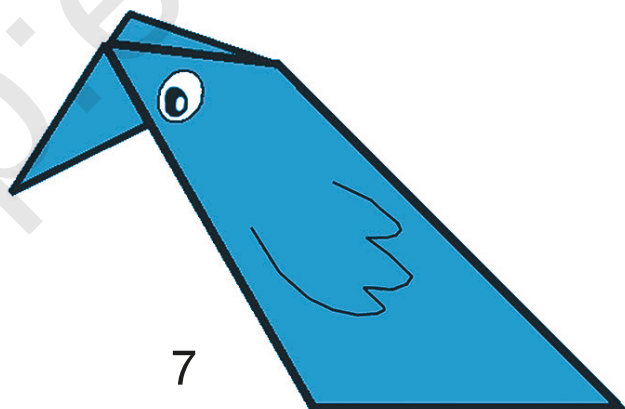
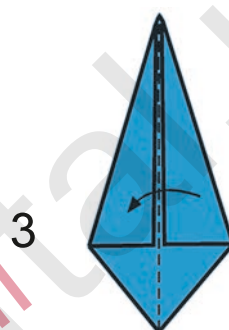
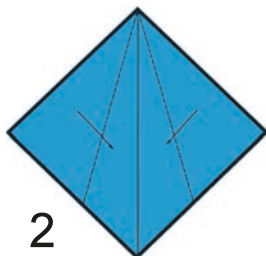
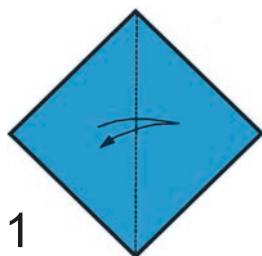
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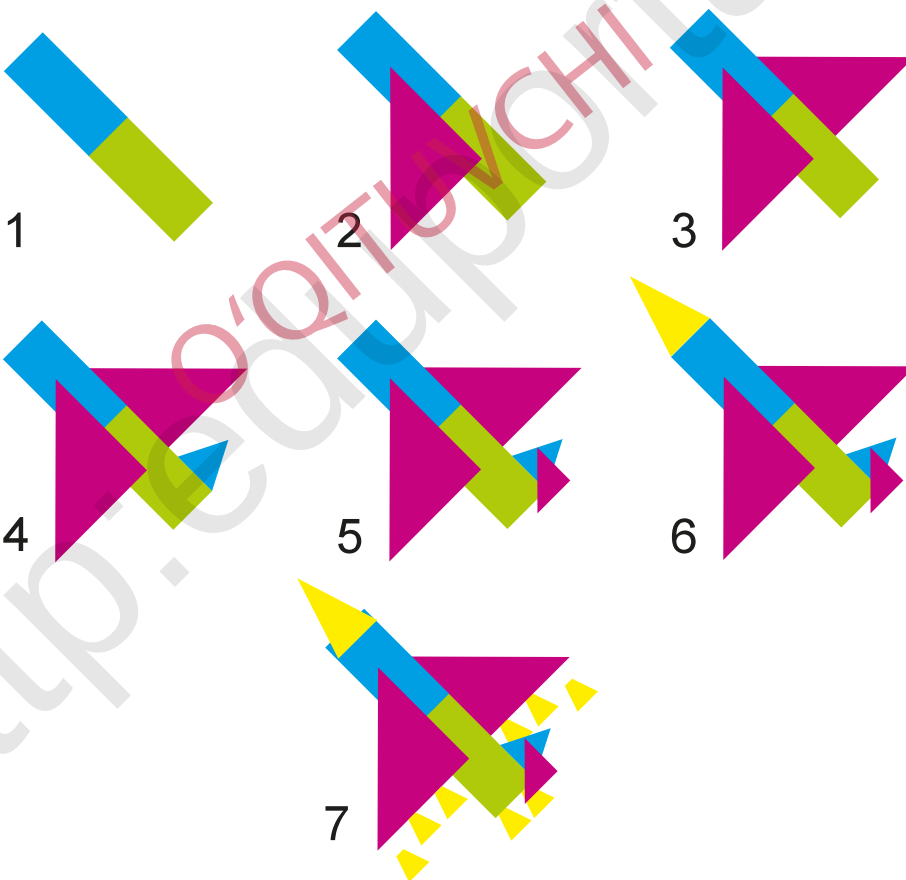
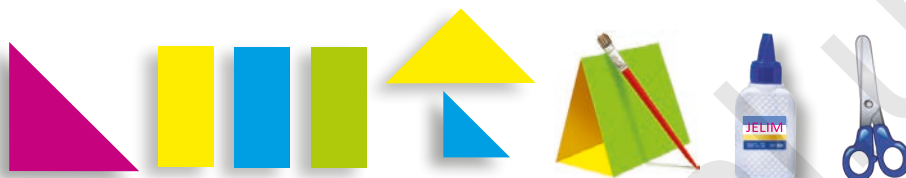


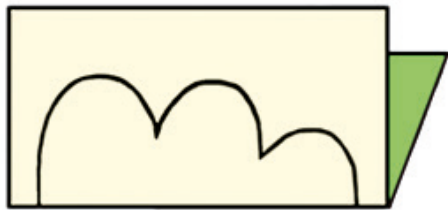
31- sabaq. QAĞAZDAN BÚKLEW USÍLÍDA HAYWANLAR, QUSLARDÍŇ FORMASÍN SOĞÍW



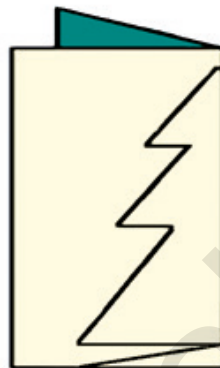


BAQLAW JUMÍSÍ USHÍN TAPSÍRMALAR ÚLGISI

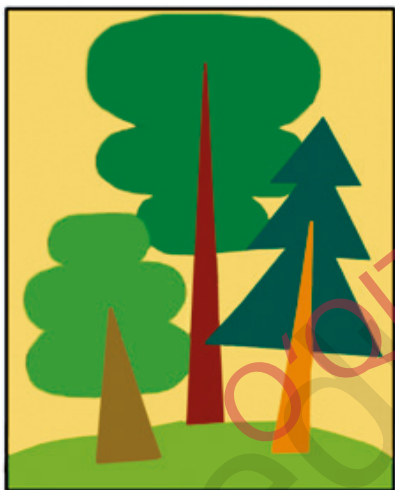




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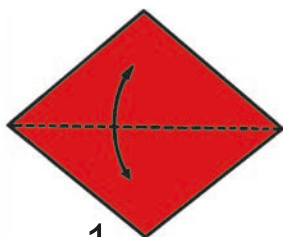
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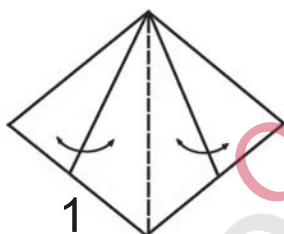
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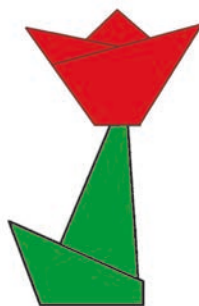
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KÁSIP USTALARÍ GÚRRÍŃ ETEDI

ORNAMENT HÁM NAĠÍS

Ornament dep, arxitektura hám ámeliy kórkem óner shıǵarmalarındaǵı tiy-kargı elementlerden birine ayıladı. Ol sızıqlar hám reńlerden ibarat bolıp, imarat hám buyımlardı boyaw, tesiw hám oyıp islew jolı menen jaratıladı.

NaĠıs bolsa hár qıylı buyımlar, mebeller, úylerge oyıp hám boyap salınatúǵın gúl bolıp esaplanadı. Úyler, hár qıylı buyım hám mebellerge oyıp islew beriwshi hám de reńli boyawlar menen bezetiwshe xudojnik **naĠıs oyıwshi** dep ataladı.

Ózbekstanda naĠıs oyıwshılıq óneri áyyemnen rawajlanıp kiyatır. Ájayıp estelikler házirgi kúnge shekem óziniń kórkem kórinisin joǵaltpaǵan. Ulıwma, naĠıs gúl bezegi degen mánini ańlatadı.



QAĞAZ

Mektepti qağazsız kóz aldımızğa keltiriw júdá qıyn. Dápter, kitap, klass jurnalı, kúndelik dápter qağazdan tayarlanadı. Qağaz turmısımızda áhmiyetli rol oynaydı. Bir bet qağaz tayarlaw ushın qanshadan-qansha insan miyneti talap etiledi. Qağazdı birinshi bolıp qıtaylılardan Cay Lun balıqshılıq torınan tayarlap kórgen. Bul áhmiyetli oylap tabılıw tek ǵana Qıtay emes, bálkim pútkil adamzat ushın úlken áhmiyetke iye boldı. Ózbekstanda Temuriyler húkimdarlıǵı dáwirinde qağaz islep shıǵarıwǵa ayırıqsha áhmiyet berilgen. Sol sebepli de Samarqand qağazı Orta ásir Shıǵıs kalligrafları arasında oǵada qádir-lengen, belgili bólegi bolsa sırt ellerge de tarqalǵan. Qağaz islep shıǵarıw texnologiyası mın jıldan artıq tariyxqa iye bolsa da, ol házirge shekem rawajlanıwda dawam etpekte.



QAYSHÍ

Arxeologlar tárepinen qarabaxanalar-dan tabılǵan qayshı eń áyyemgi qayshı-lardan bolıp, onıń jası 3–4 mıń jıllarǵa tuwrı keledi. Bul qayshı dáslep adam-nıń ózine xızmet etiw ushın emes, bál-kim qoydıń júnin qırqıw ushın oylap ta-bılǵan.

Ol ózgerissiz eki mıń jıldan kóbirek waqıt dawamında qollanılıp kelingen.

Sonnan keyin, shama menen 1000 jıl aldın, ónermentler eki pıshaqtı burama shege menen birlestirip hám olardıń bántin halqalarǵa aylandırıp, qayshını qo-laylı kóriniste oylap tapqan. Keyin ala qayshınıń dúzilisin jetilistirip bariw nátiy-jesinde ol shashtárezler hám shıpaker-lerdiń jumıs qurallarına aylanǵan. Hár-bir usta óziniń qayshısın jetilistirip bar-ǵan. Usı sebepli arnawlı qayshılar payda bolǵan. Máselen: baǵban, shashtárez, tigiwshi, xirurg qayshıları hám basqalar.



APPLIKACIYA

Applikaciya latın tilinde «biriktiriw» degen mánini ańlatadı. Bul áyyemgi kórkem óner túrлерinen biri bolıp esaplanadı. Applikaciya qaǵaz, karton yaki gezleme bólimлерinen, keptirilgen gúller hám japıraqlardan jabıstırıw arqalı jaratıladı. Hár bir xalıqtıń aplikaciyası forması, reńi hám ózgesheligi menen birbirinen parıqlanadı.



ORIGAMI

Origami «taqlaw hám búklew» degen mánini bildiredi. Origami texnologiyasında qayshı qollanılmaydı. Origami óneri Yaponiyada qaǵaz islep shıǵarıw dáwirinen baslap rawajlanıp kelgen. Orta ásirlerde ol yapon aqsúyekleri mádeniyatınıń bir bólegine aylanǵan. Házirgi kúnde origami texnologiyası menen shugıllanıw tek ǵana Yaponiyada emes, bálkim pútkil dúnyada adamlardıń súyikli dem alıw shınıǵıwlarına aylanǵan.

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