H.R. SANAKULOW, D.P. HODIÝEWA, A.R. SANAKULOWA

TEHNOLOGIÝA

Umumy orta bilim berýän mekdepleriň 3-nji synpy üçin derslik

Özbegistan Respublikasynyň Halk bilimi ministrligi tarapyndan hödürlenen

«SHARQ» NEŞIRÝAT-ÇAPHANA
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BAŞ REDAKSIÝASY
DAŞKENT – 2019

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KBK 74.263
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Şertli belgiler:

– ýumuş
– sorag
– ýatlatma
– kärler barada maglumat
– öýde ýerine ýetiriň
– özbaşdak iş

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GIRIŞ

Eziz okuwçylar!

Siz 2-nji synp «Tehnologiýa» derslerinde tebigy we dürli materiallardan öý guşlaryny, haýwanlary, kiçi göwrümli oýnawaçlary, modelleri ýasamagy, iş gurallaryndan howpsuzlyk tehnikasynyň kadalaryna amal etmek bilen peýdalanmagy öwrendiňiz.

Indi 3-nji synpda tebigy we dürli materiallardan ýerine ýetirilişi taýdan çylşyrymly, köp basgançakly bezegli oýnawaçlary, maketleri we modelleri ýasamagy öwrenersiňiz.

Amaly işleri ýerine ýetirmegiňizde döredijilikli çemeleşip, täze taslamalary taýýarlanda iş gurallaryndan dogry we ýerlikli peýdalanmak endiklerini ösdürersiňiz.

Şu dersligiň sahypalarynda berlen iş nusgalaryny owadan we oňat hilli ýerine ýetirmekde mugallymyňyzyň maslahatyndan, ata-eneňiziň kömeginden peýdalanyň.

Eziz okuwçylar, derslikde berlen iş nusgalaryny ýerine ýetirmek bilen, olaryň täze görnüşlerini döretmäge, oýlap tapmaga çalşyň. Geljekde size beýik işler garaşýandygyny unutmaň.

Şu dersligiň size ýakyn kömekçi boljakdygyna ynanýarys.

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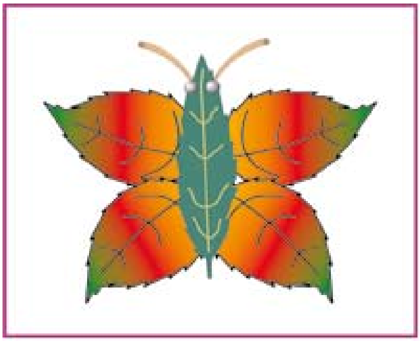
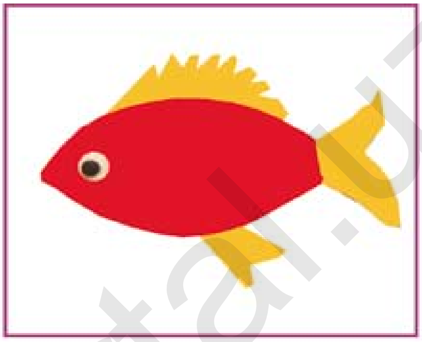
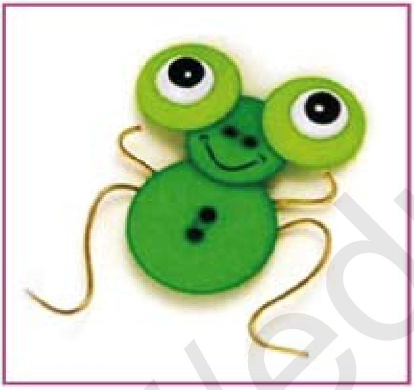
TEHNOLOGIÝA DERSINDE ÝERINE ÝETIRILÝÄN IŞLERDEN NUSGALAR

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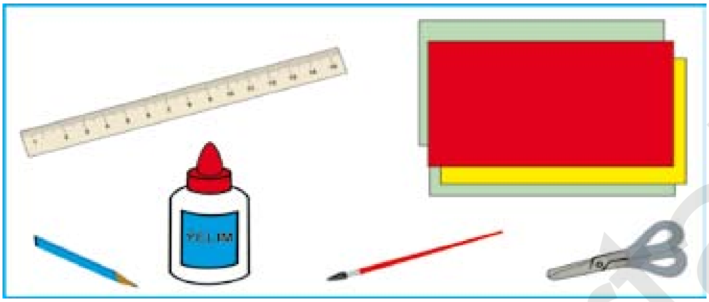
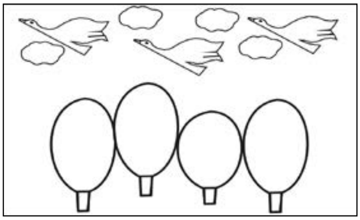
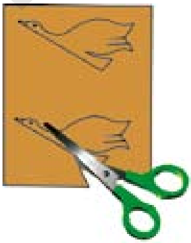
«GÜÝZ» GÖRNÜŞINI APPLIKASIÝA USULYNDA ÝASAMAK

Bize gerek bolýan iş gurallary

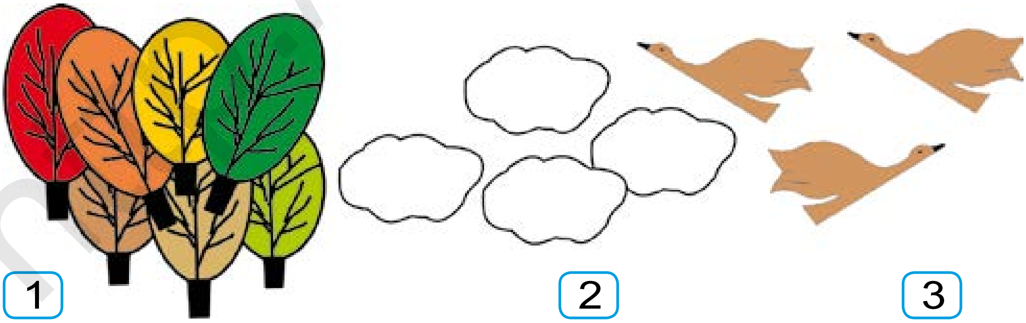


Güýz görnüşine laýyk detallary öňünden taýýarlaň.





Bagdaky agaçlaryň ýerleşiş tertibini gözden geçiriň. Reňkli kagyzlardan agajyň şekillerini gyrkyň, yzygiderlikde ýerleşdirip ýelimläň.



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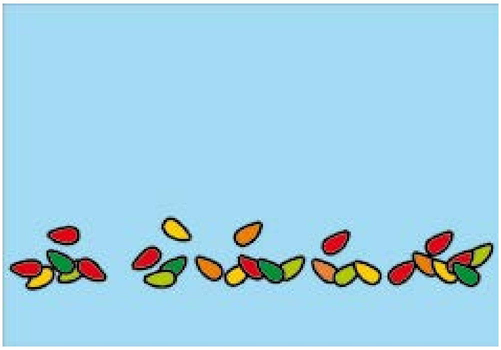

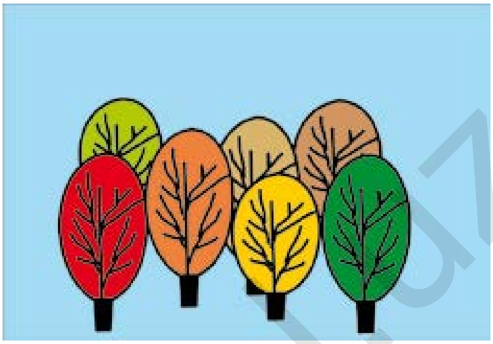

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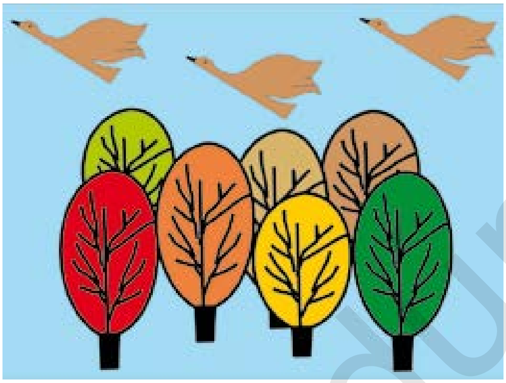

6

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! Her pasly öz görnüşinde şekillendirmäge çalşyň.

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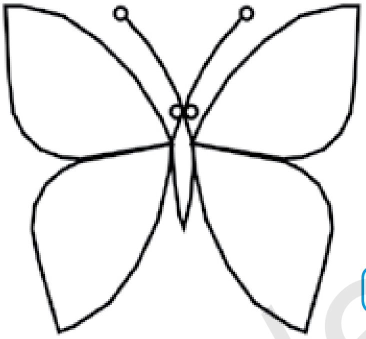
KEBELEGIŇ ŞEKILINI GURMAK-ÝASAMAK

! Kebelegiň şekiline laýyk ýapraklary toplaň we arassalap guradyň.

! Kebelegiň şekilini ýasamazdan öň kebelegiň çyzgysyny çyzyň.



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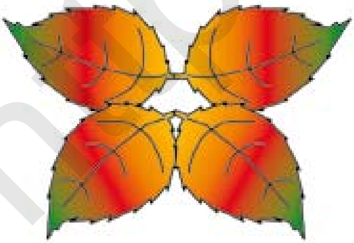
! Guradylan ýapraklary bir-birine gabatlap dogry ýerleşdiriň we ýelimläň.



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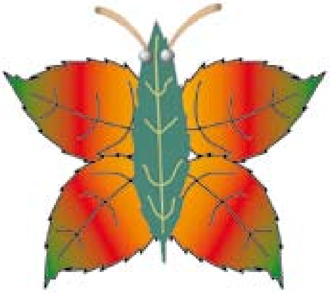

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Özbaşdak işiň nusgalary

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Kebelegiň şeklini nähili materiallardan ýasamak mümkin?

Siz nähili görnüşdäki kebelegi özbaşdak ýasap bilersiňiz?

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4

Özbaşdak işiň nusgalary

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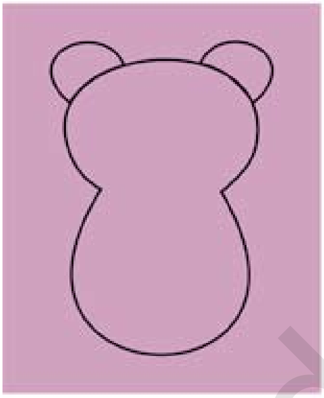
HEREKETLI OÝNAWAÇLARY ÝASAMAK

Karton kagyza aýyjygyň böleklerini çyzyň we gyrkyp alyň.



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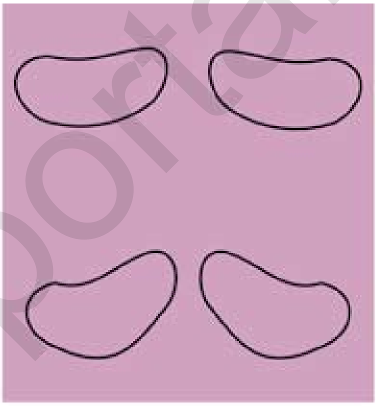

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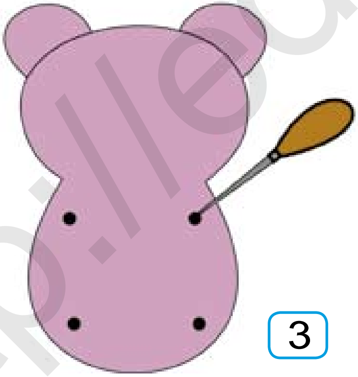

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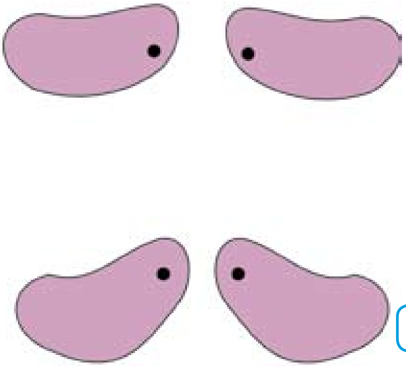

4

Aýyjygyň bölekleriniň birikdirilýän nokatlaryny bellik ediň, mugallymyň gözegçiliginde deşiň.

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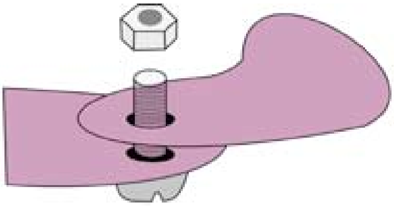
! Aýyjygyň böleklerini aşakdaky yzygiderlikde birikdiriň.



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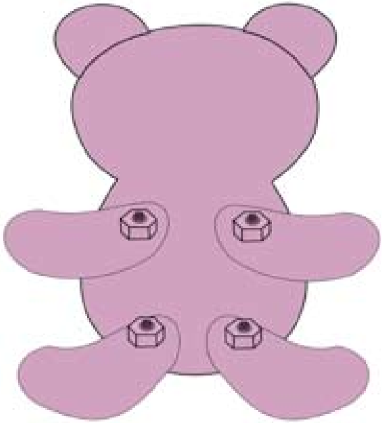

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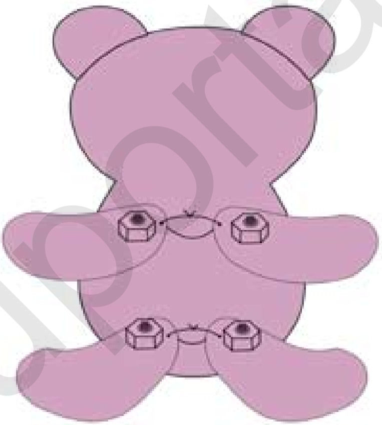

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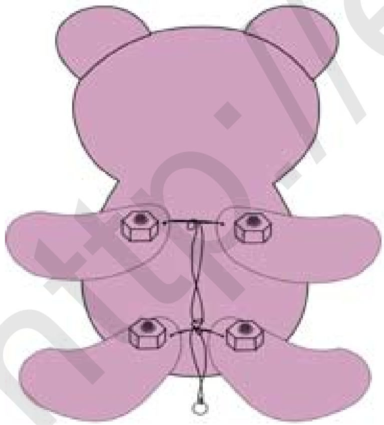

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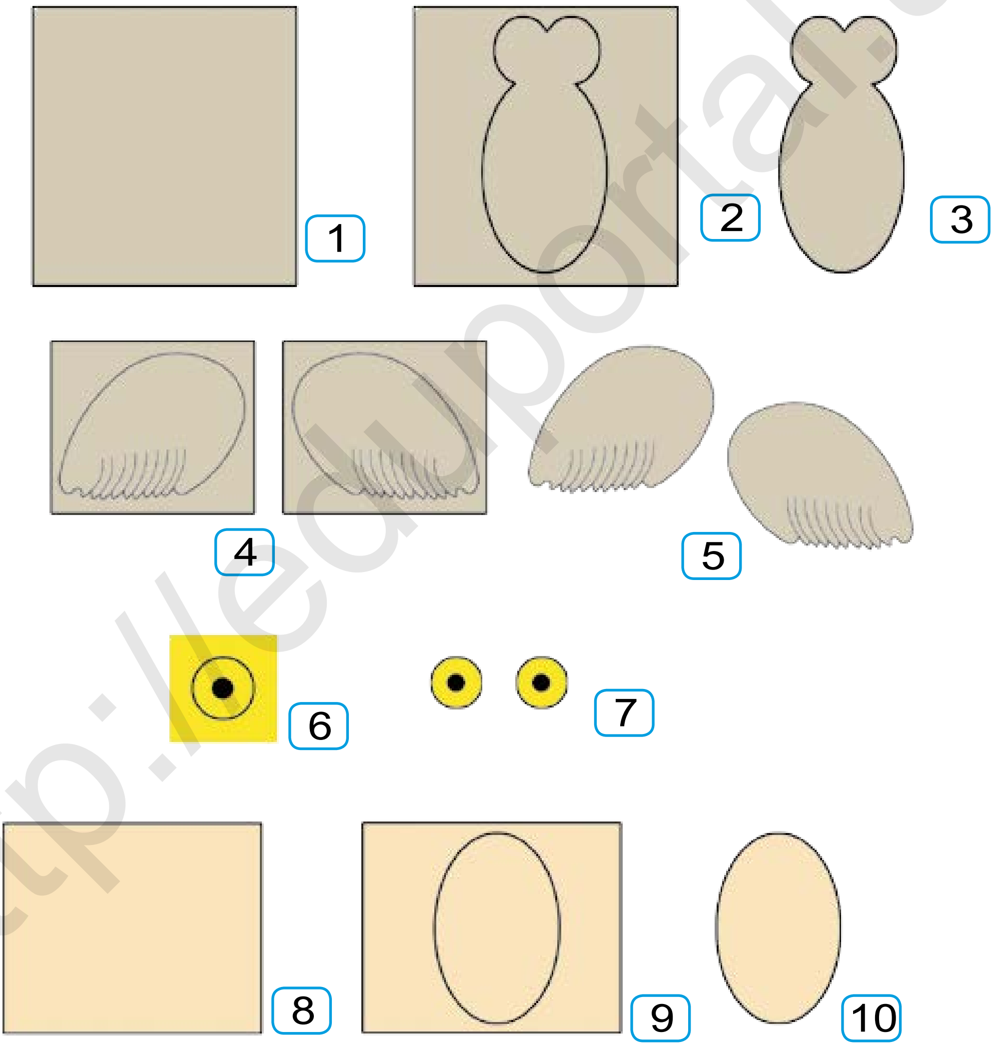
Özbaşdak işiň nusgalary

Hereketlenýän modelleri özbaşdak ýasajak boluň.



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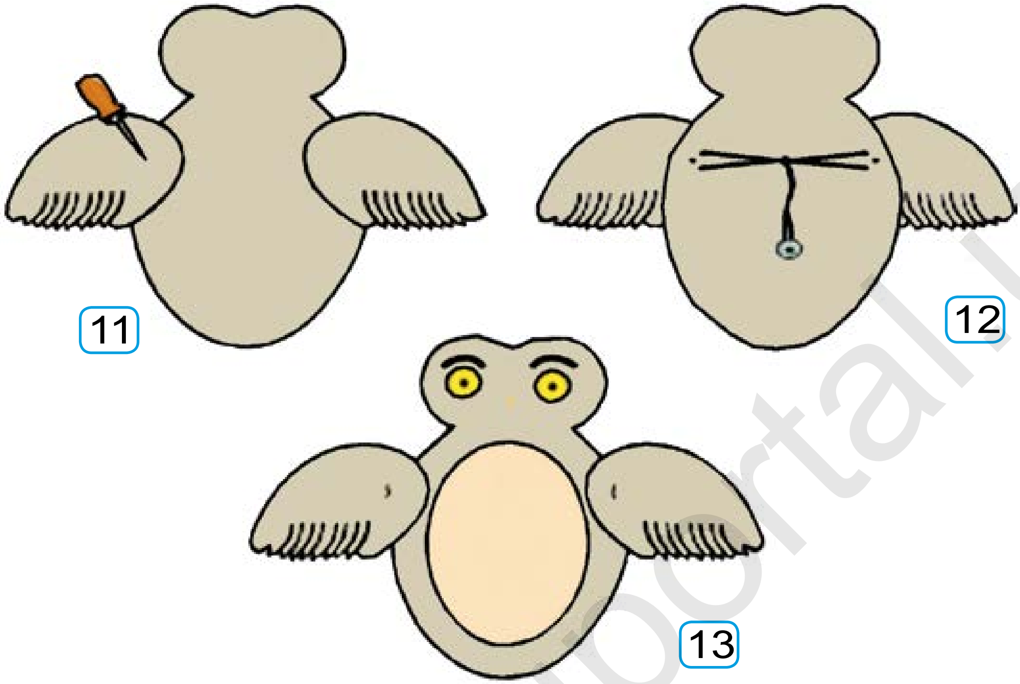

Guşuň şeklini applikasiýa usulynda özbaş-
dak ýasajak boluň.

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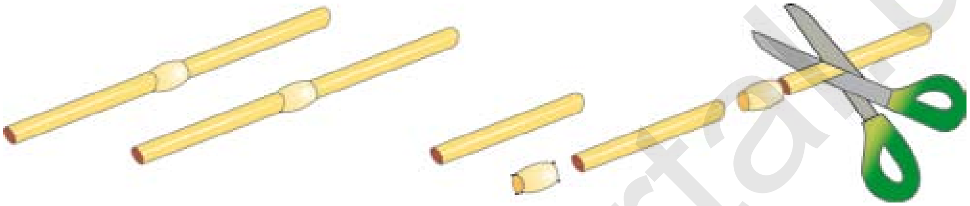
SAMANDAN APPLIKASIÝA USULYNDA HAÝWANLARYŇ, GÜLLERIŇ, JANDARLARYŇ ŞEKILINI ÝASAMAK

Ütük bilen işlände ulularyň kömeginden peýdalanyň.



Mugallymyňyz taýýarlap beren samanlary kagyza ýelimläň we yzygiderlikde ýerine ýetiriň.

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Özbaşdak işiň nusgalary

Iş hereketlerine syn ediň we ýasajak boluň.

Samandan dürli kompozisiýa dörediň we ýakynlaryňyza sowgat ediň.

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1-nji barlag işi

Ýapraklardan jandarlaryň şeklini ýasamak

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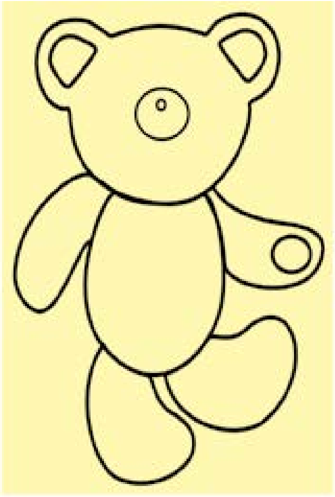
«ERTEKI GAHRYMANLARYNY» APPLIKASIÝA USULYNDA ÝASAMAK



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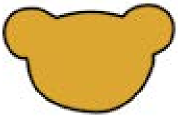

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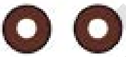

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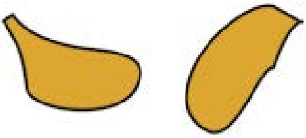

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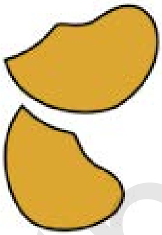

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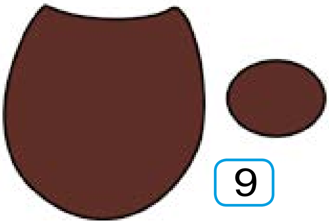

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! Her bir basgançagy yzygider, dogry ýerine ýetiriň.

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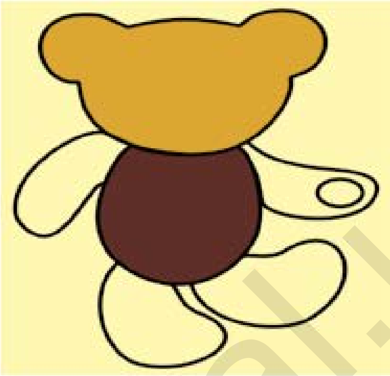

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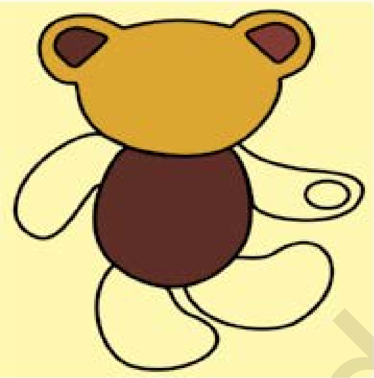

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15

? Özüňiz halan erteki gahrymanyny applikasiýa usulynda taýýarlamaga çalşyň.

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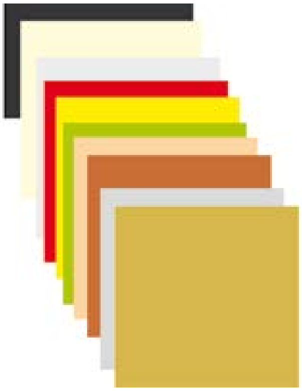
Özbaşdak işiň nusgalary

Kagyzdan kirpiniň şeklini özbaşdak ýasajak boluň.



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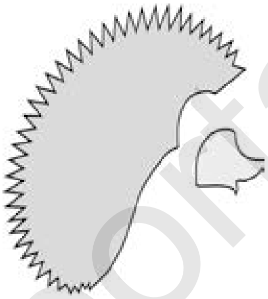

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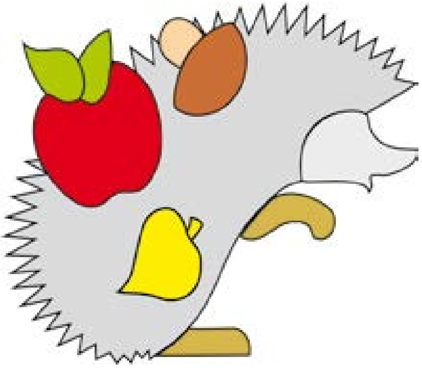

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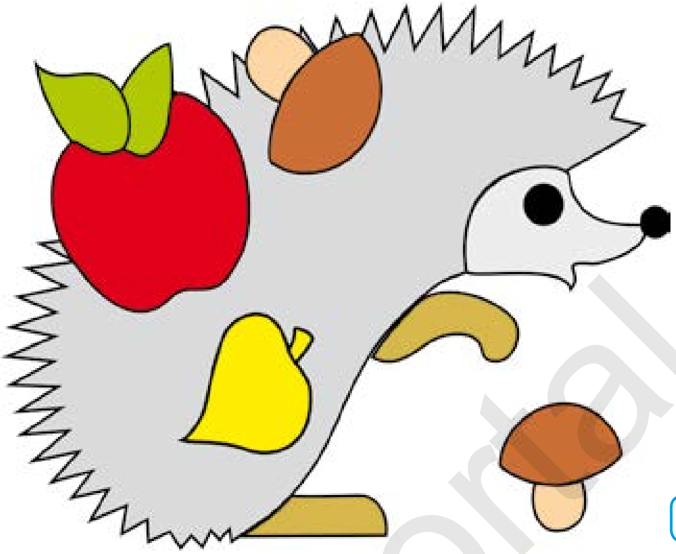

5

Öý guşunyň şekli nähili geometrik şekillerden ybarat?

6

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PAPE-MAŞE USULYNDA KÄSE TAÝÝARLAMAK WE BEZEMEK

Käsäniň daşyna wazelin ýa-da ýag çalyň. Kagyzy maýda böleklere bölüň. Käsäniň birinji gatyna kagyz böleklerini suwa batyryp, käsäniň üstüne tekiz edip ýapyşdyryň. Ikinji gatyna kagyz böleklerini ýelimiň kömeginde ýapyşdyryň.

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Käse taýýarlamak üçin gerekli iş gurallaryndan dogry peýdalanyň.

4

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Kagyz böleklerini ikinji gata uzynlygyna ýelimläň. Bu bolsa kagyz gatlaryny ýaňlyşmagyndan saklaýar. Bu ýagdaý 6–7 gezek gaýtalaň.

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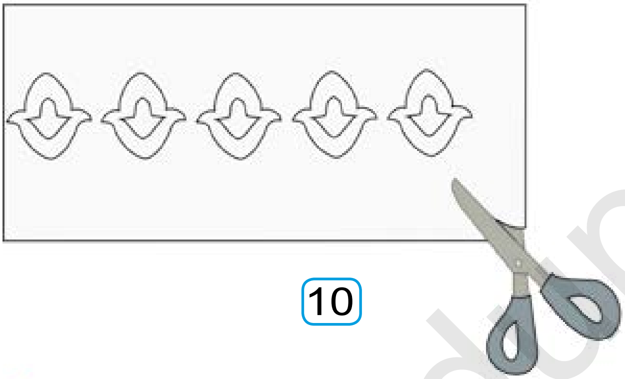

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Käsäni 3 günüň dowamynda guramaga goýuň. Soňra käsäniň daşyny gök reňke boýaň we nagyş elementleri bilen bezäň.

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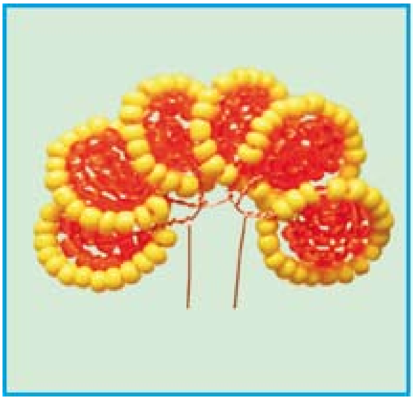
SOWGAT ÜÇİN SUWENIR ÝASAMAK

1

2

! Ýumşak sime gülüň şeklini emele getirýän gülüň ýapraklary üçin iki dürli reňkdäki hünjüleri (biserleri) yzygiderlikde ýerleşdiriň.

3



4

! Taýýarlanan güle ýene nähili goşmaça girizmek mümkin. Bu işe döredijilikli çemeleşiň.

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Birnäçe gül ýapraklaryny bir-birine berkidip gül şekilini emele getiriň.

5

6

Özbaşdak işiň nusgalary

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Özbaşdak işiň nusgalary

Iş nusgalaryna üns beriň. Özbaşdak ýasanyňyzda özgerdişler girizjek boluň.

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DÜRLI KAGYZLARDAN GIRLÝANDLAR WE GAR BÖLEJIGINI ÝASAMAK

! Gar bölejigini aşakdaky yzygiderlikde ýasap görüň.

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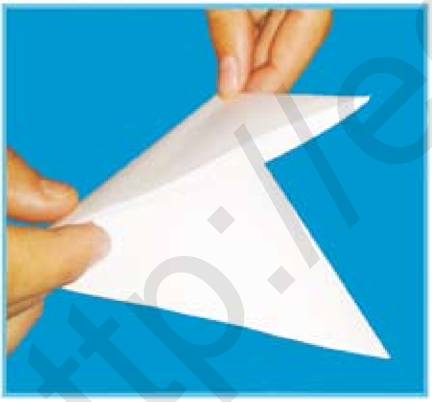

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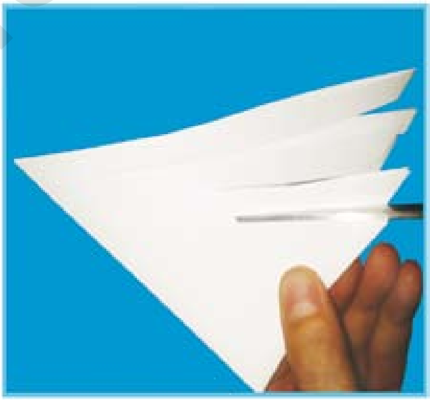

4

? Oýlanyň. Ýene nähili gar bölejiklerini ýasamak mümkin?

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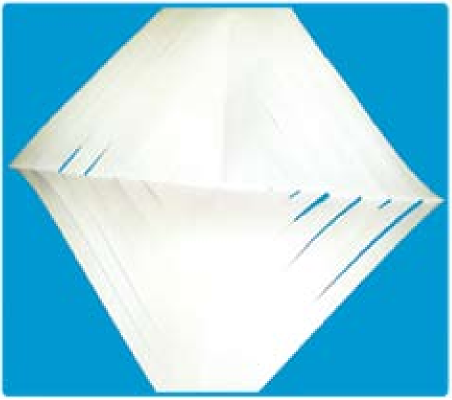

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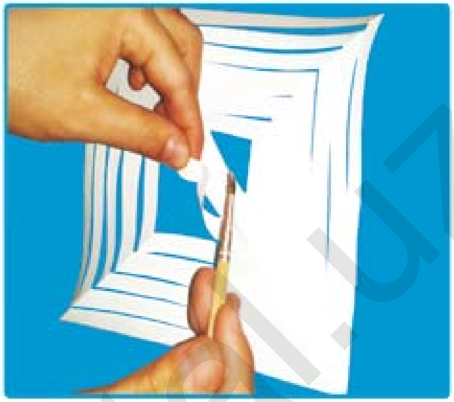

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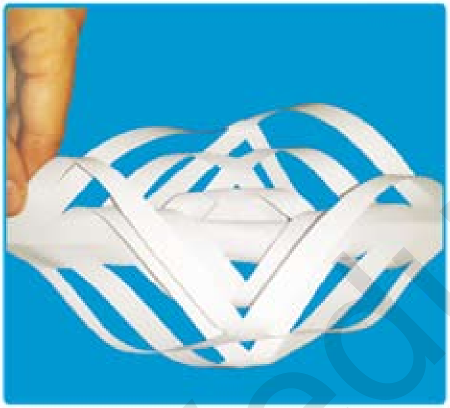

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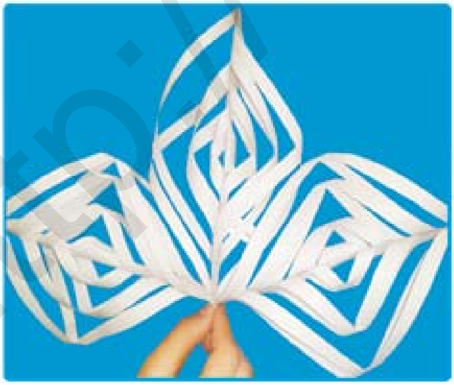

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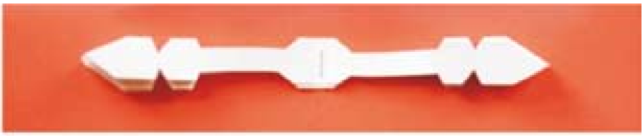
Özbaşdak işiň nusgalary



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REŇKLI KAGYZDAN ARÇA ÝASAMAK

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Howpsuzlyk kadalaryny berjaý ediň.

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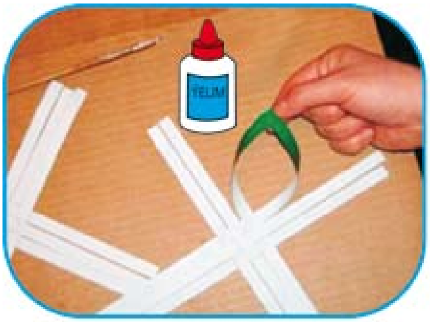

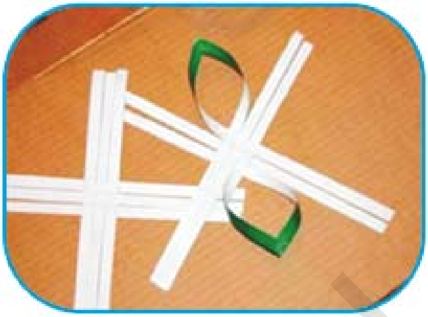

5

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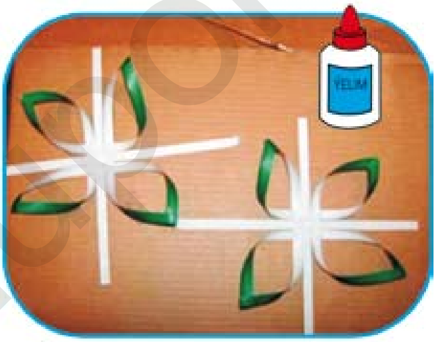
! Kagyz böleklerini tertip bilen ýelimläň.



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http://eduportal.uz

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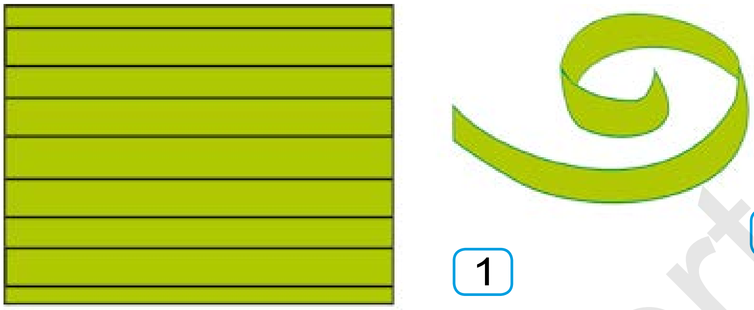
Arça laýyk oýnawaçlar ýasaň.

http://e-portal.tm

2-nji barlag işi

Reňkli kagyzlardan göwrümli arça oýnawajyny taýýarlaň



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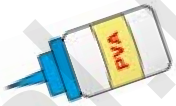
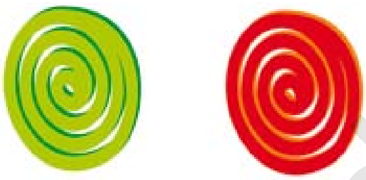


2



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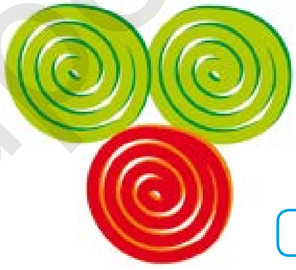

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https://eduportal.uz

GYŞYŇ GÖRNÜŞINI APPLIKASIÝA USULYNDA ÝASAMAK

Her bir şekili dogry ýerleşdirip, gyşyň görnüşini132 dörediň.

http://eduportal.uz

7

8

Gyşyň görnüşinden nusgalar ýasajak boluň. «Özbegistanda gyş» temasyny özbaşdak applikasiýa usulynda işlemäge çalşyň.

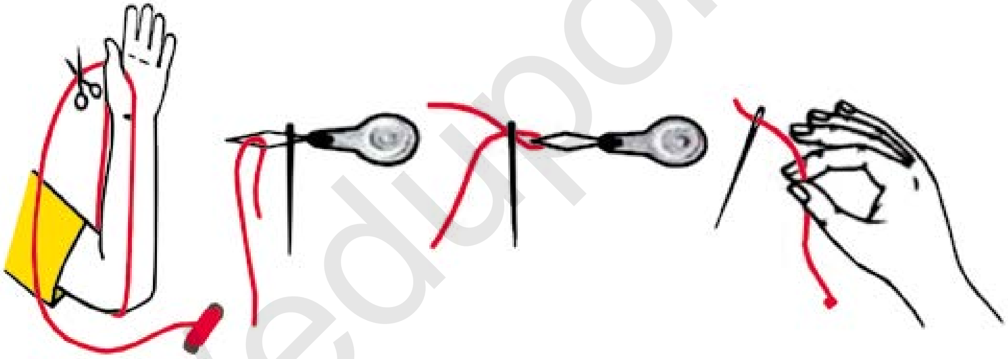
http://eduportal.uz

GÖNI TIKIN TIKMEK

Göni tikin tikmek üçin aşakdaky kadalara amal ediň.

Iňňe bilen işlemegiň kadalary.

1. Iňňäni ulanyp bolansoň, mahsus iňňe ýassyjagyna sanjyp goýuň.
2. Iňňäni hiç haçan agzyňyza sokmaň.
3. Işden öň we işden soň iňňeleri sanap görüň, ýetişmeýän iňňeleri hökman tapyň.

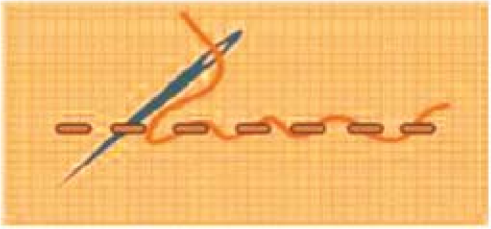


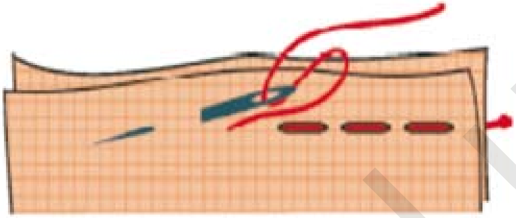
1 2 3 4

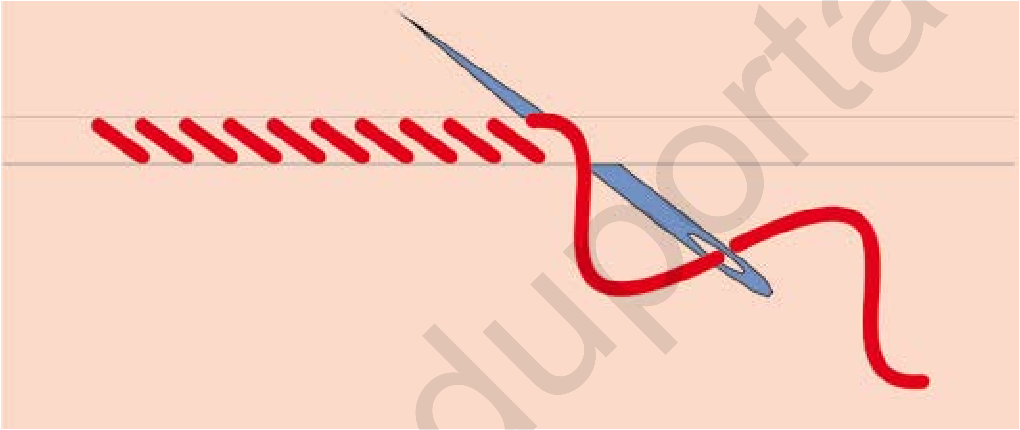
4. Gerekli uzynlykdaky sapagy ölçäp ony gyrkyp alyň (1-nji surat).
5. Iňňä sapak geçirip düwün emele getirmegi unutmaň (2, 3, 4-nji suratlar).

http://eduportal.uz

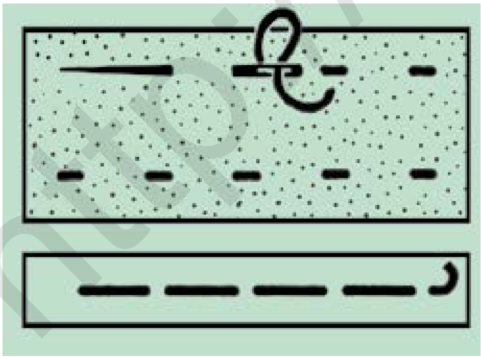
Tikiniň görnüşleri bilen tanyşyň.

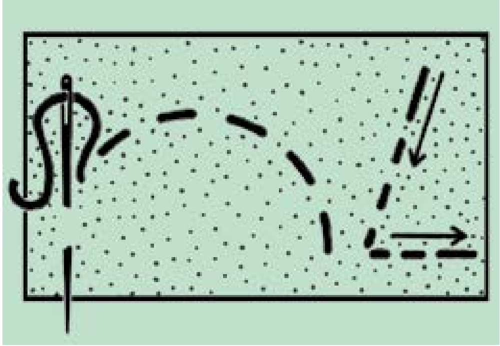






Dürli tikinlerde tikmegi öwreniň.





http://eduportal.uz

Özbaşdak işiň nusgalary

1

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Kartondan taýýarlanan ülňi esasynda mata böleklerinden islendik ölçegdäki (tegelek) şekli gyrkyp alyň.

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Gyýyklary göni tikin bilen işläň.

http://eduportal.uz

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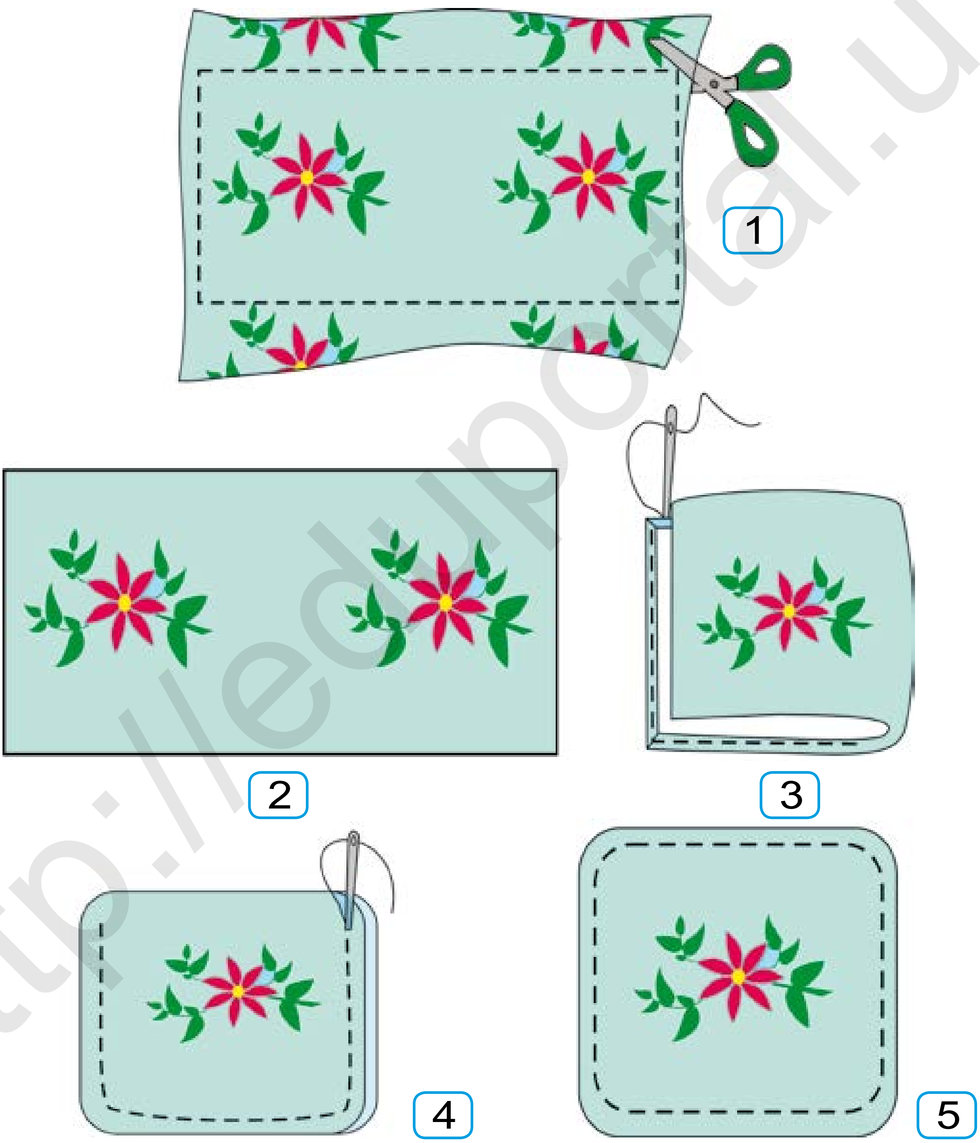
! Bezeg tikinlerinden peýdalanyň.

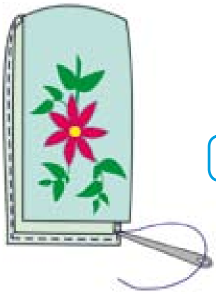
http://eduportal.uz

Özbaşdak işiň nusgalary

Göni tikiniň kömeginde tutawaç tikiň.



http://eduportal.uz



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? Nähili tutawaçdan peýdalanmak amatly?

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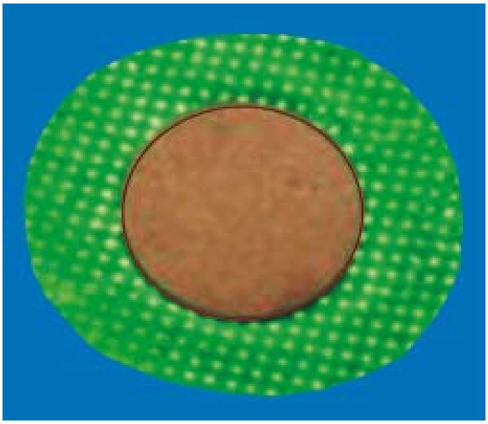
Tutawajyň şekline özgerdiş girizmek mümkin. Olary taýýarlajak boluň.

http://eduportal.uz

IŇŇE ÜÇIN ÝASSYJAK TIKMEK



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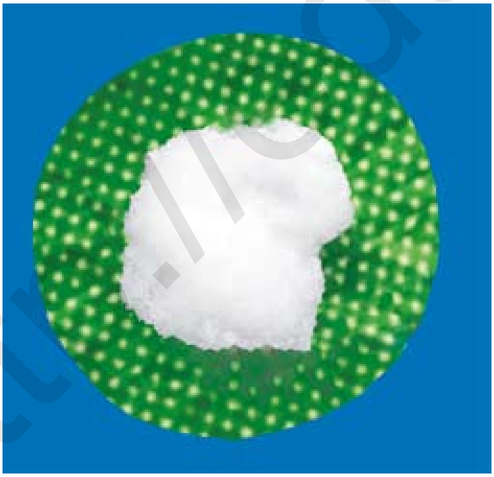
Iňňe üçin ýassyjak tikmegiň tertibi bilen tanşyň. Amaly işe döredijilikli çemeleşip, öz iňňe üçin ýassyjagyňyzy taýýarlaň.



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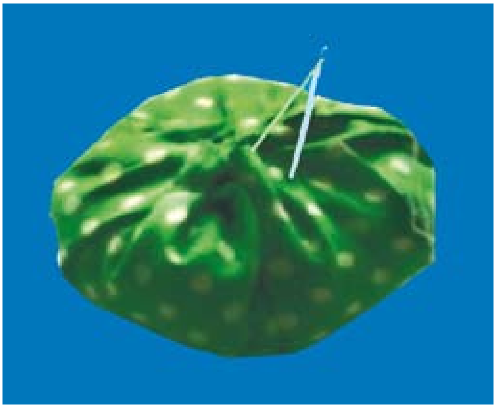
http://eduportal.uz



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Iňňe bilen işlände howpsuzlyk kadasyna amal etmegi unutmaň.

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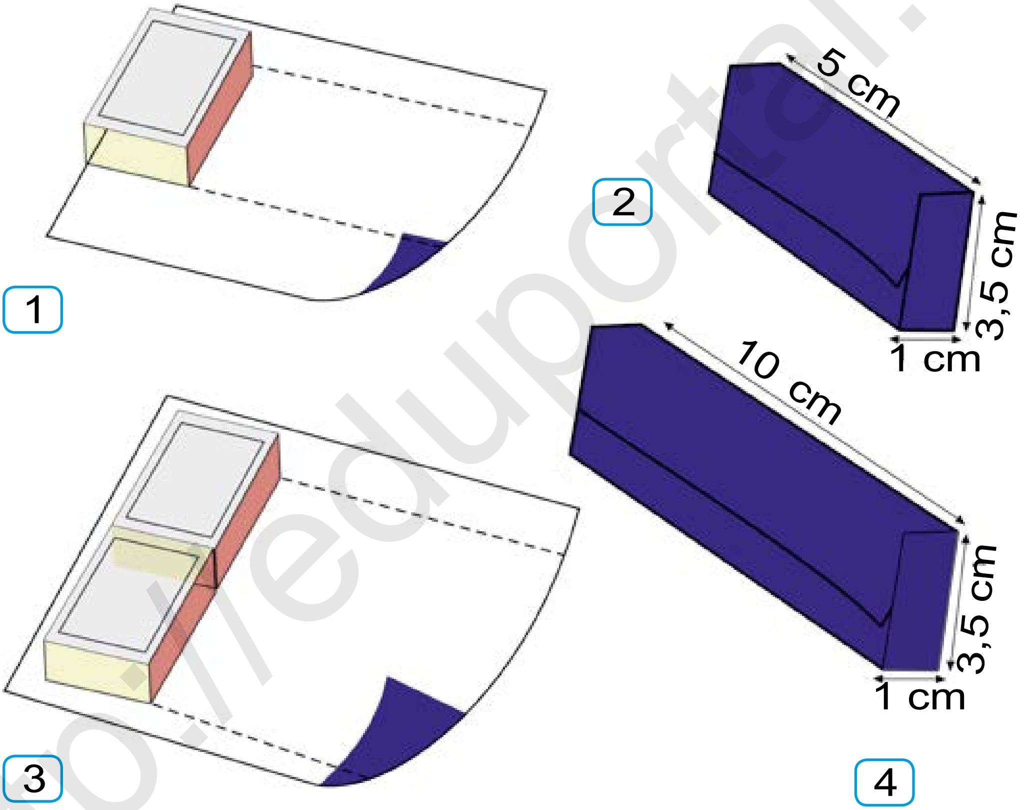
http://eduportal.uz

DÜRLI GEOMETRIK ŞEKILLERDEN HEREKETLENÝÄN MODELLERI GURMAK-ÝASAMAK

Kiçi göwrümdäki boş gutujyklardan hereketlenýän maşynyň modelini ýasajak boluň.



Hereketlenýän maşyn modeliniň böleklerini dogry bellik ediň.

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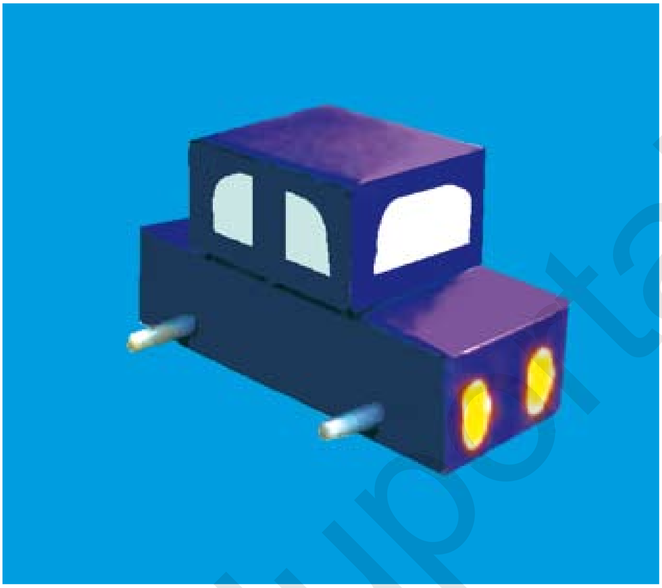
Maşynyň tigirlerini ýasanda plastmassa gapakdan peýdalanyň.



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http://eduportal.uz

7

Sürüji ir dańdan gün batýança adamlary öz menzillerine howpsuz ýetip barmaklary üçin hyzmat edýär.

Sürüji käri hemişe düşbüligi, hüşgärligi talap edýär.

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BAHARKY GÜLLER KOMPOZISIÝASYNY TAÝÝARLAMAK

! Bahar güllerini reňkli kagyzlardan ýasajak boluň!

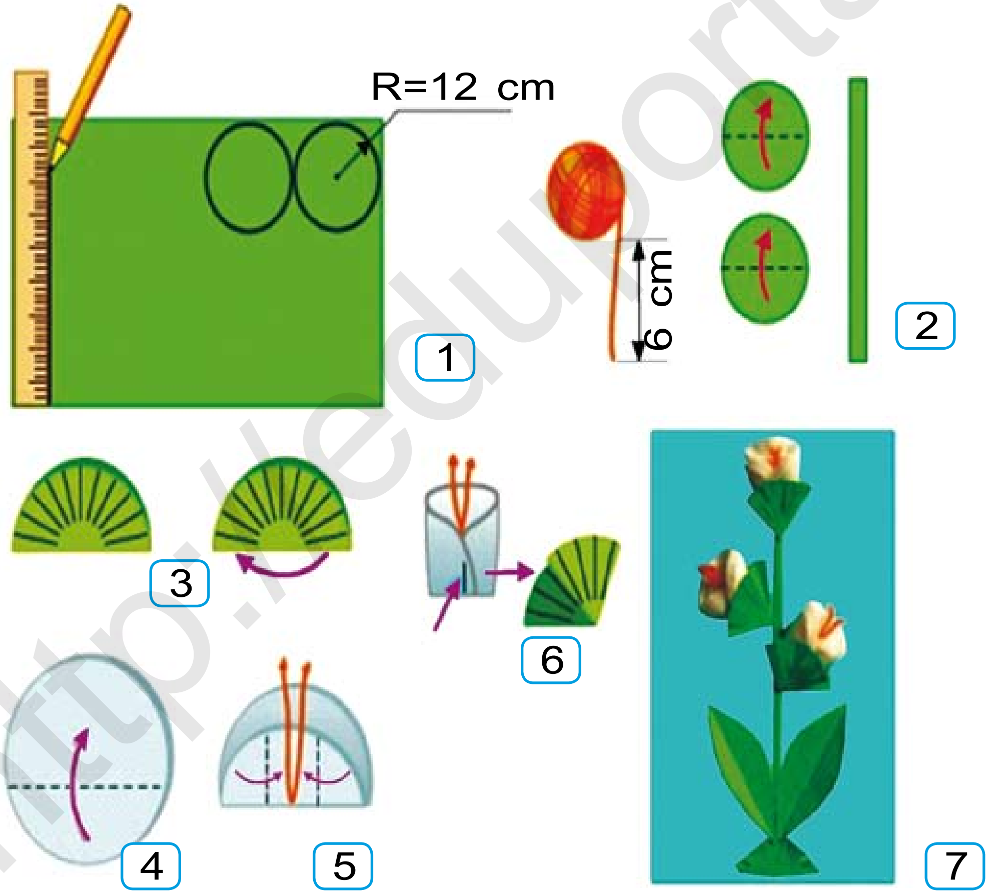
http://eduportal.uz

KAGYZY EPLEMEK WE GYRKMAK USULYNDA GÜLLERIŇ ŞEKILINI ÝASAMAK

Dürli kagyzlardan baharky güller kompozisiýasyny taýýarlamagyň basgançaklaryny yzygiderlikde ýerine ýetiriň.

http://eduportal.uz

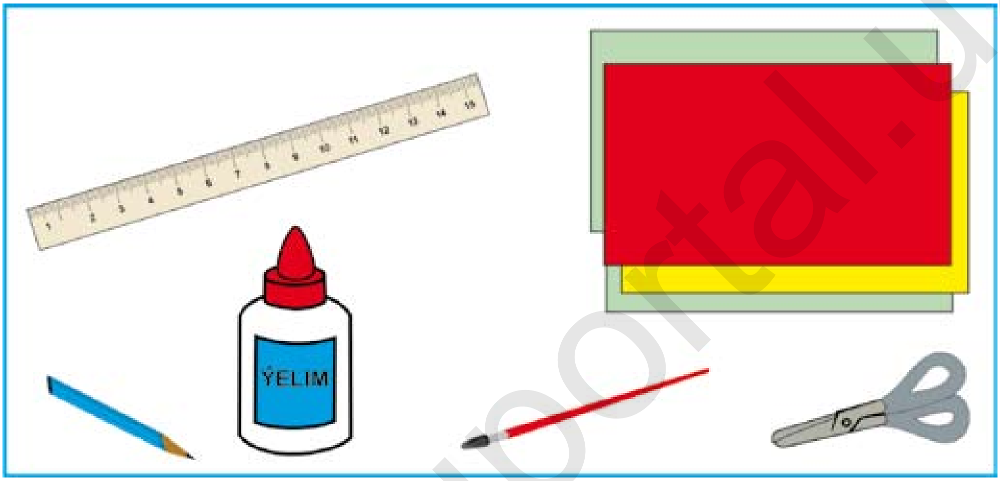
Özbaşdak işiň nusgalary

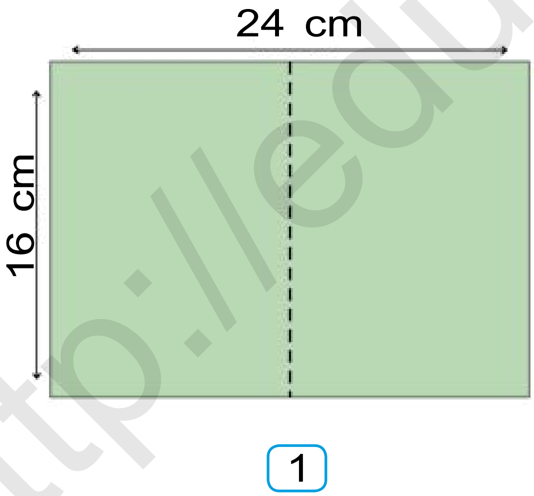


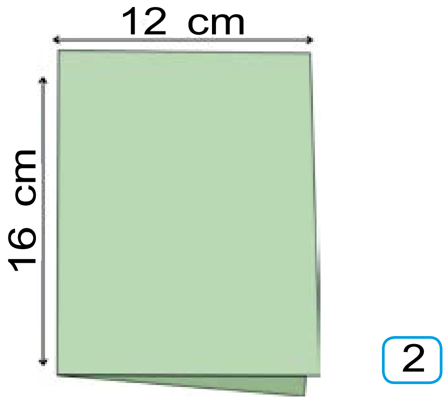
http://eduportal.uz

BAÝRAMA GUTLAG HATY ÝASAMAK

Gerekli iş gurallaryny öňünden taýýarlaň.



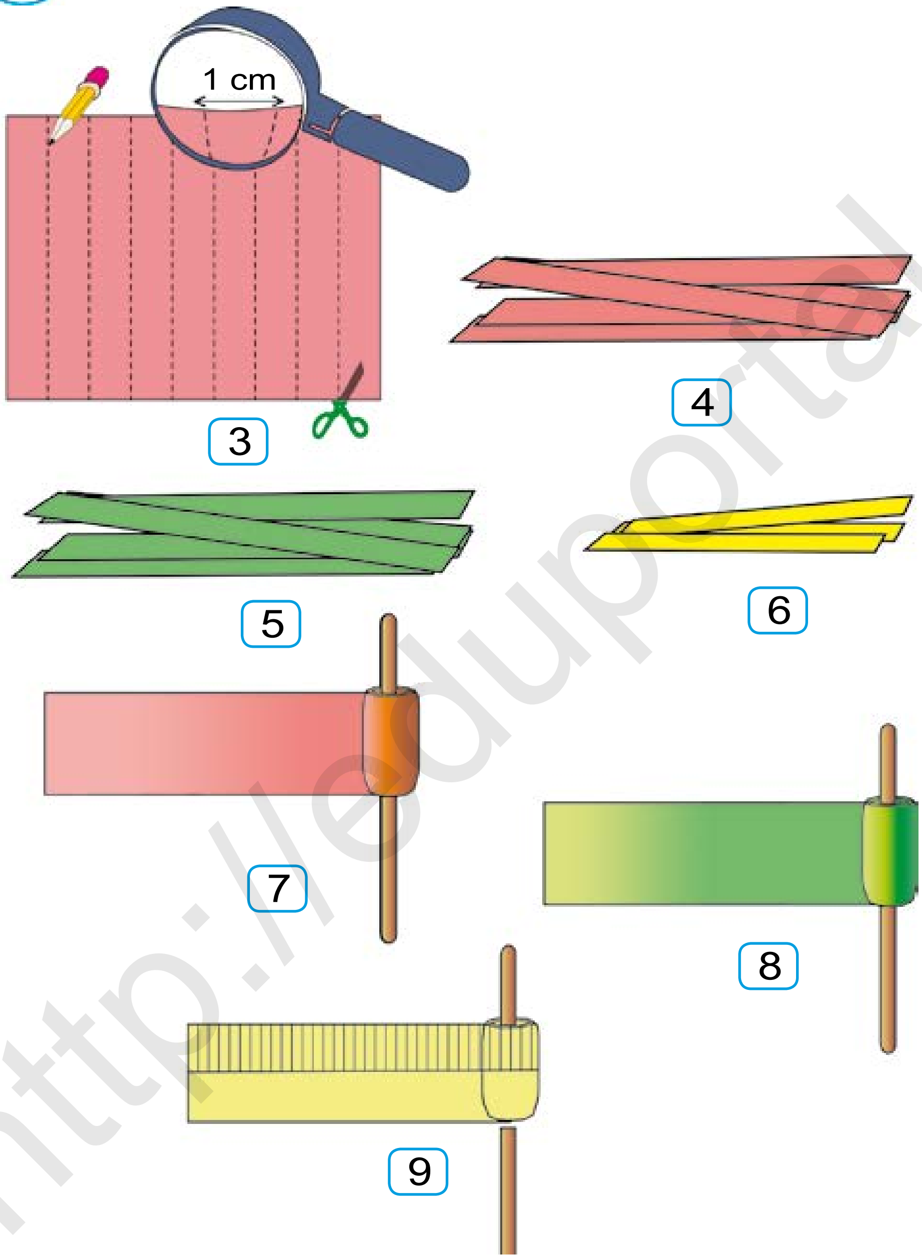




Gutlag haty ýasamak üçin ölçegleri dogry bellik ediň.

http://eduportal.uz

Ölçegini we reňkini dogry saýlaň.



http://eduportal.uz

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! Kwiling usulynda güller taýýarlanda ýörite gyrkylan kagyzdan peýdalanyň.

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http://eduportal.uz

Ejejanym, gutly bolsun,
Gözel bahar baýramyňyz.
Gujagyňyz gülden dolsun,
Şatlyklara durmuşyňyz.

Allabergen Polat

http://eduportal.uz

3-nji barlag işi

Applikasiýa usulynda gül dessesi kompozisiýasyny ýasamak

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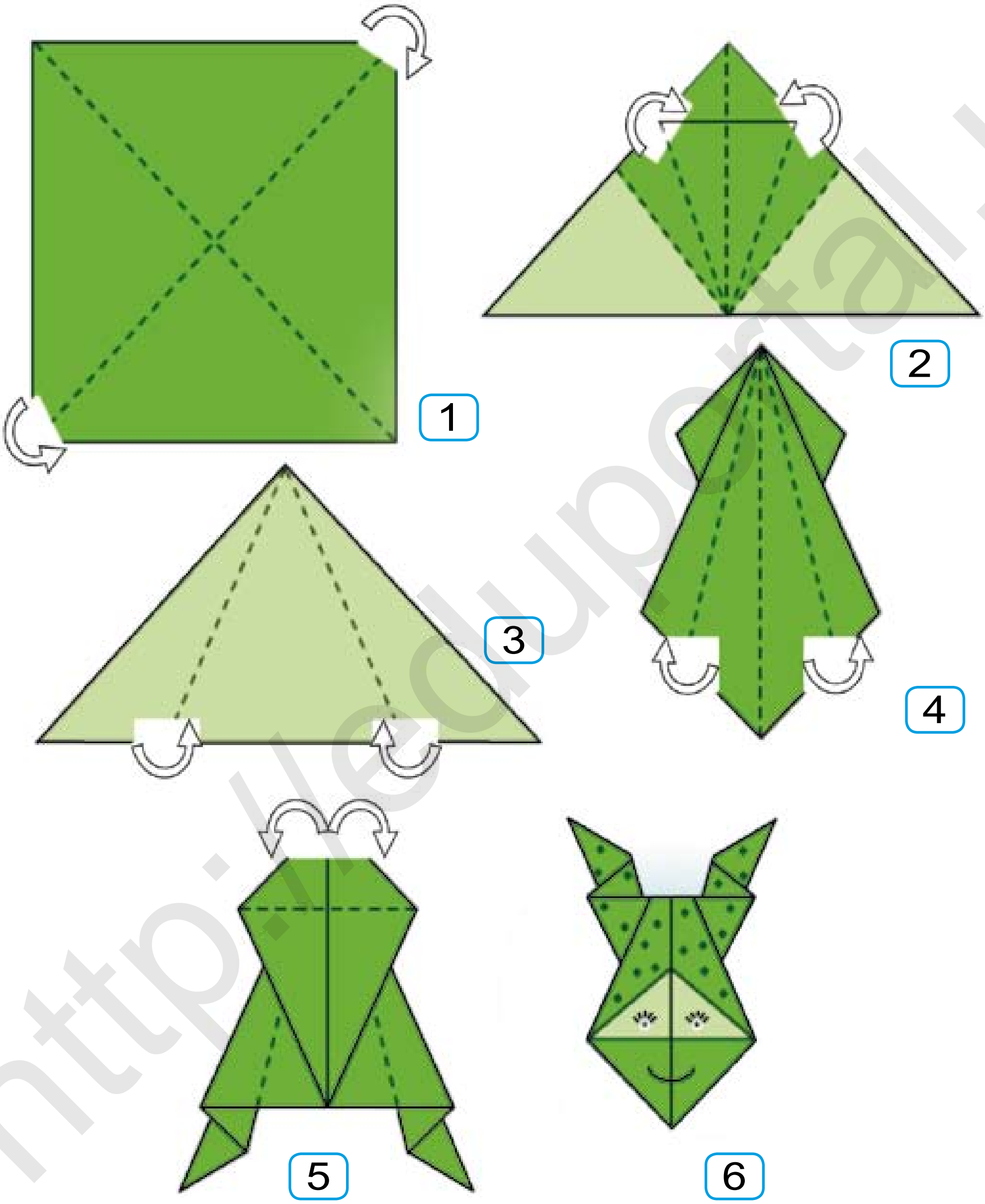
http://eduportal.uz

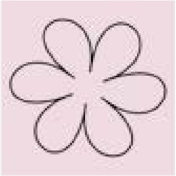
Özbaşdak ýasajak boluň



http://eduportal.uz

NOWRUZ BAÝRAMY ÜÇIN BEZEGLE-RI TAÝÝARLAMAK

1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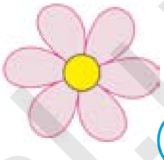
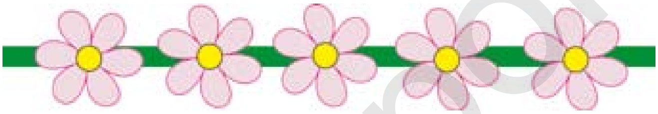

3

4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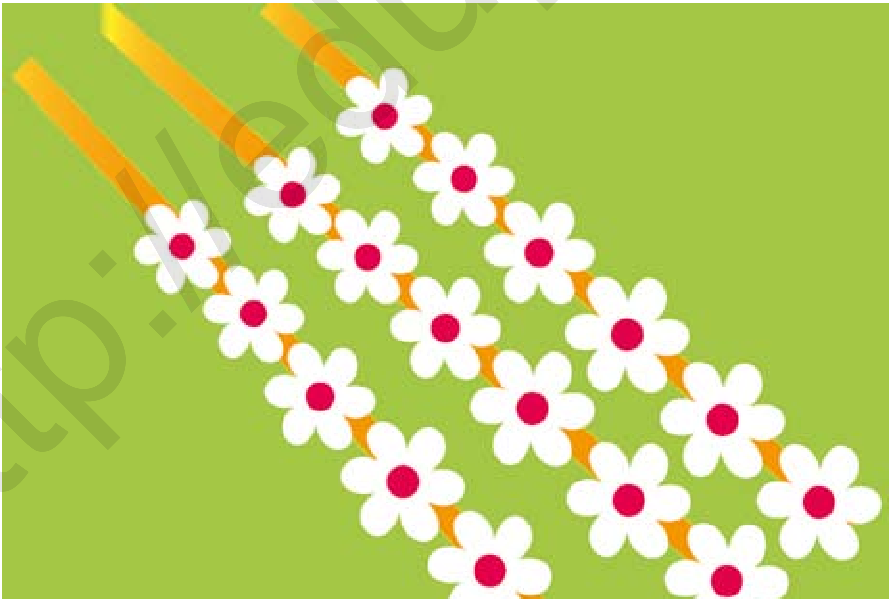
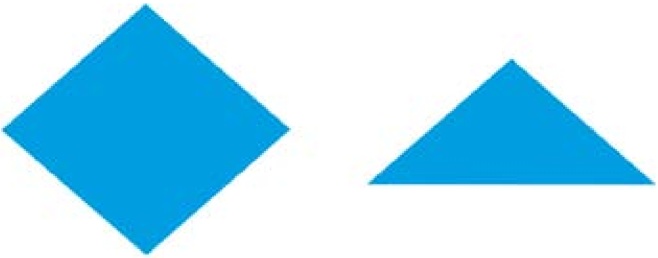

6

http://eduportal.uz

Özbaşdak işiň nusgalary



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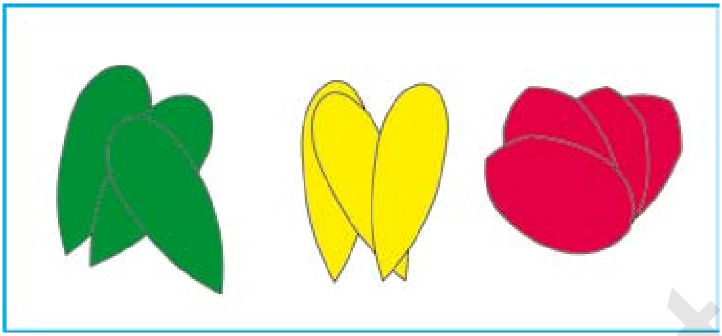
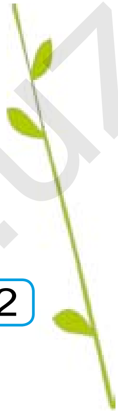
Dürli kagyzlardan baýram üçin nähili bezegleri taýýarlamak mümkin?

http://eduportal.uz

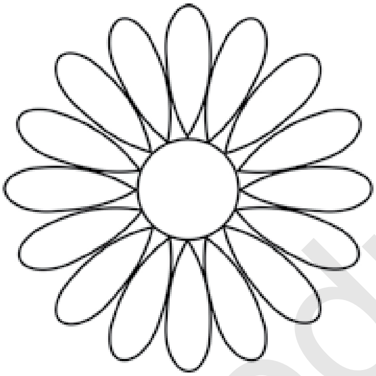
«GÜLDANDAKY GÜLLER» KOMPOZISIÝASYNY ÝASAMAK



1



2



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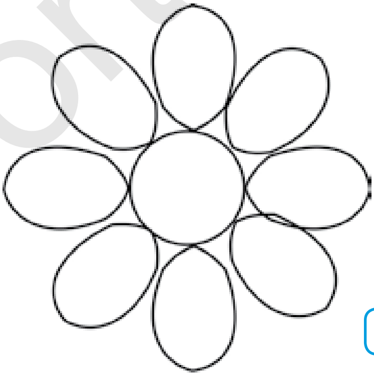

4

! Tohumlary tertip bilen ýerleşdiriň.

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http://eduportal.uz

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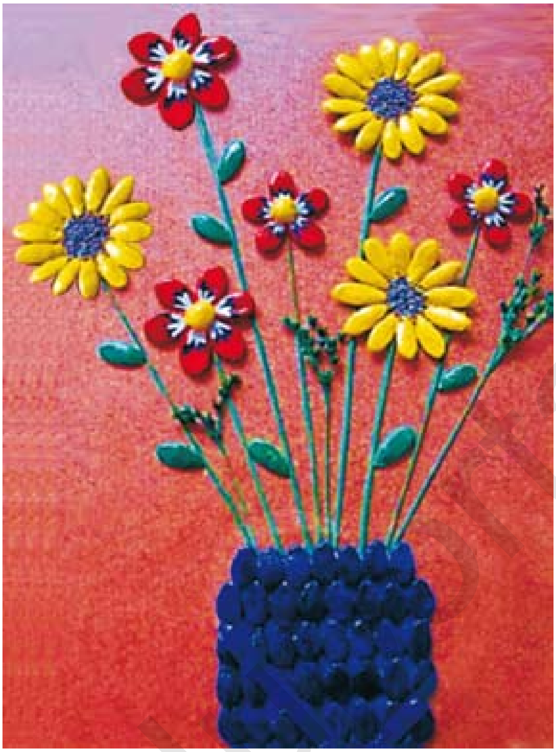
http://eduportal.uz



❗ Dürli materiallardan gülleriň şeklini ýasap, özüňiziň nähili döredijidigiňizi synaň!

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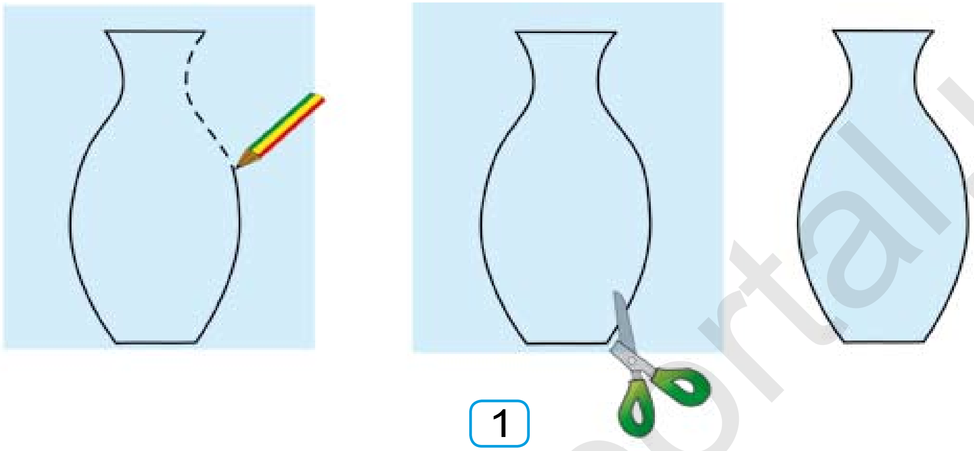
Özbaşdak ýerine ýetirilýän işler



1

2

Güldan üçin ülňi taýýarlaň we ony gülli ýa-da reňkli kartona ýerleşdirip gyrkyp alyň.

http://eduportal.uz

3

Güldanyň böleklerini birikdirip tikende tikin görnüşlerinden peýdalanyň.

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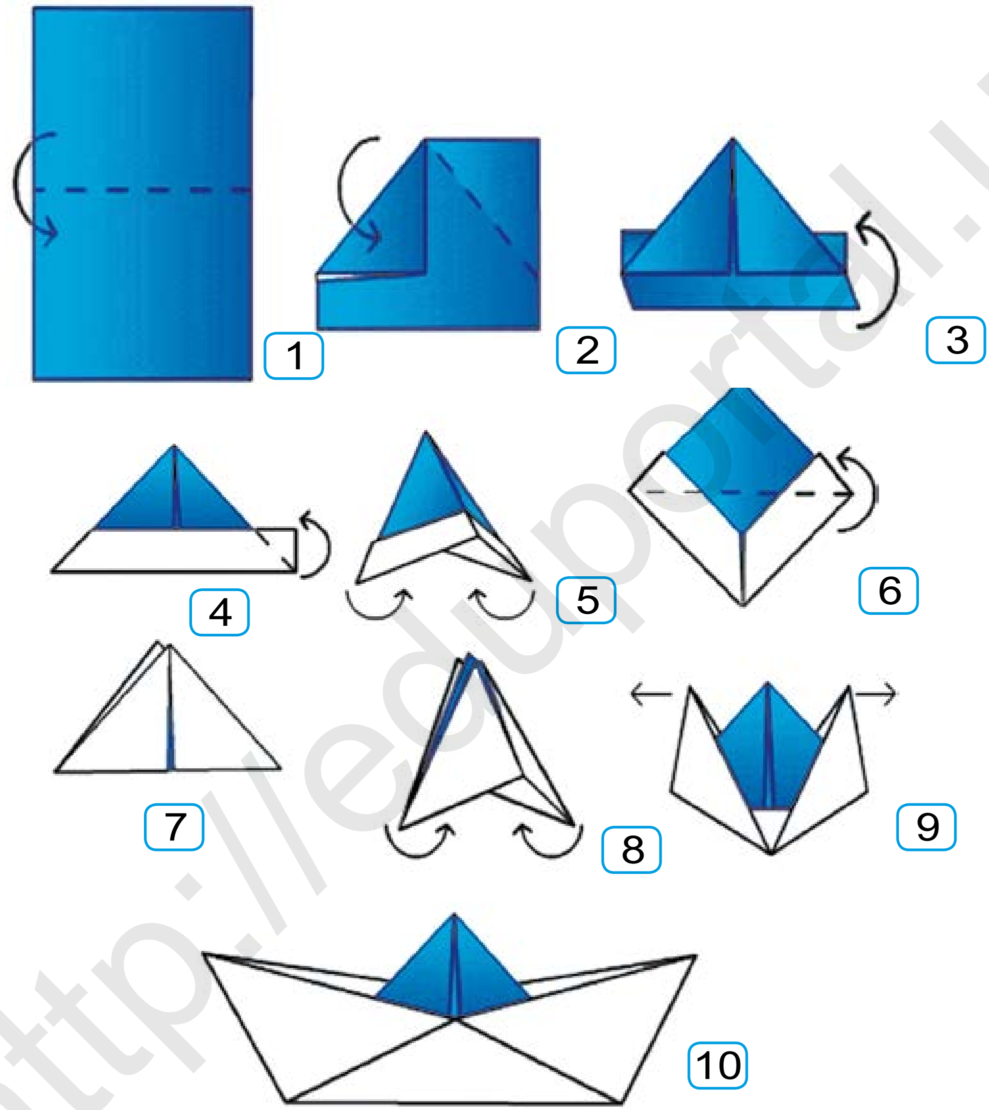
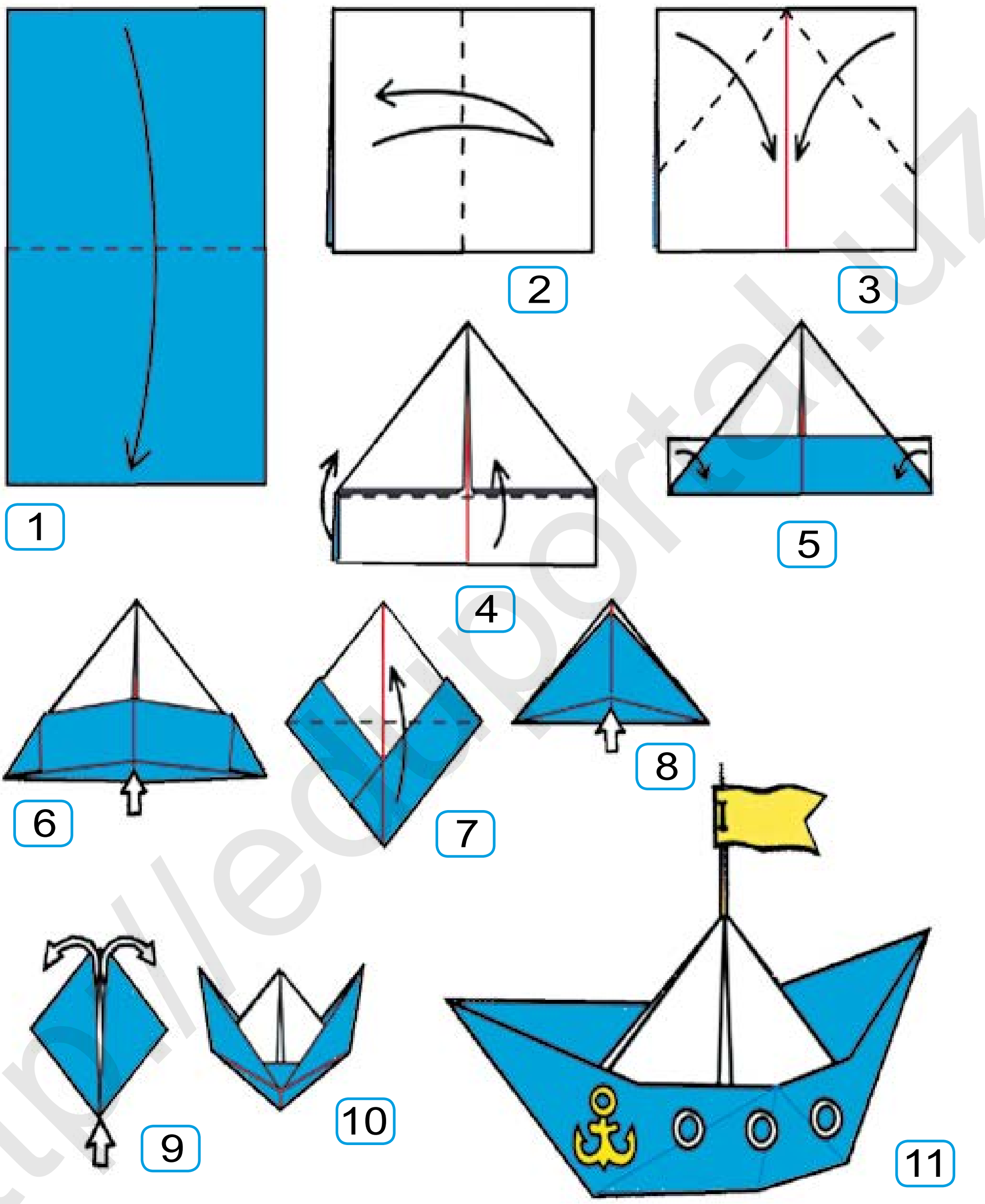
https://eduportal.uz

ÝÜZÝÄN MODELLERIŇ MAKETINI GURMAK-ÝASAMAK



Ýüzýän modelleri ýasanda goşmaça çeşmelerden peýdalanyň.

http://eduportal.uz

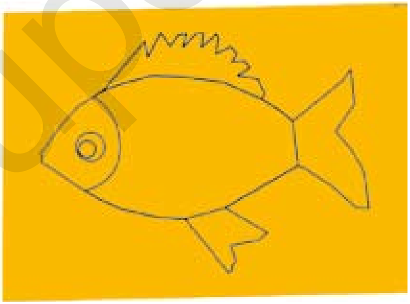


http://eduportal.uz

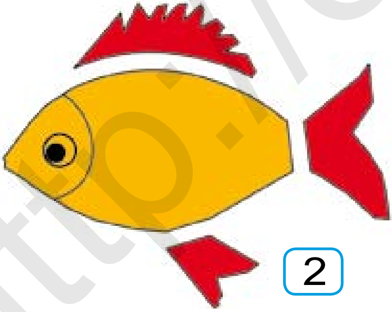
! Taýýar gaýygy hökman suwda ýüzüşine syn ediň.

POROLONDAN WE ÝÜPDEN ÝUMŞAK OÝNAWAÇLAR TAÝÝARLAMAK

! Porolonyň böleginden gönüburçlugyň şekilini taýýarlaň. Oňa balygyň şekliniň böleklerini çyzyň we gyrkyp alyň.



1



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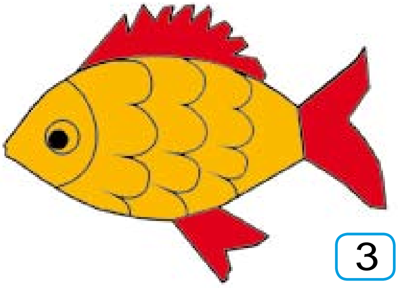
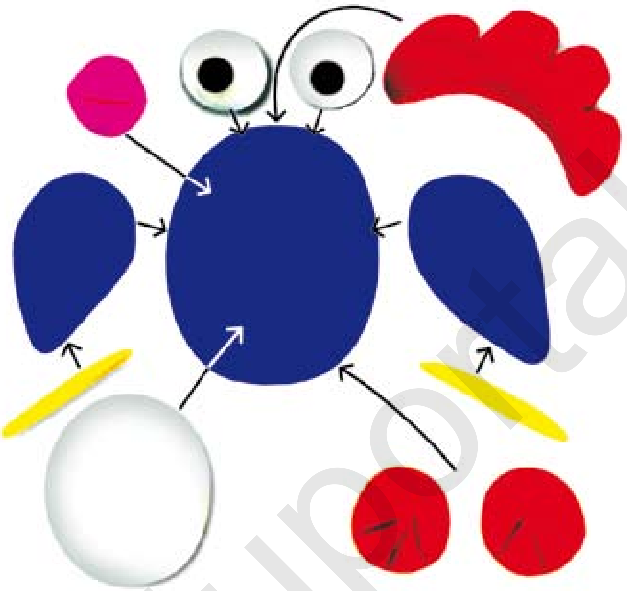


3

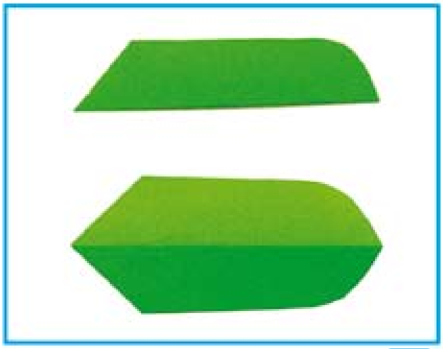
! Balygyň böleklerini yzygiderlikde ýerleşdirip çykyň.

http://eduportal.uz

Özbaşdak ýerine ýetirilýän işler



http://eduportal.uz



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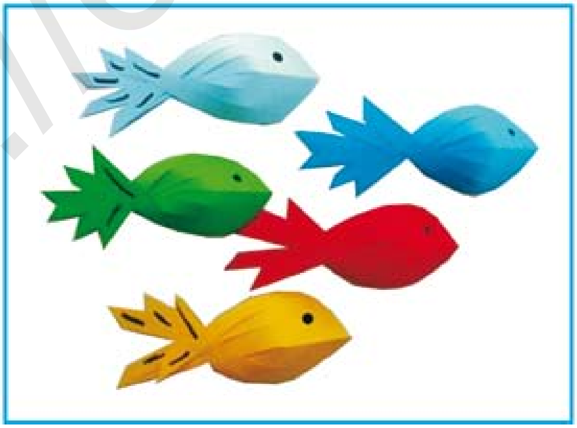
Özbaşdak ýagdaýda başga jandarlary hem ýasajak boluň.



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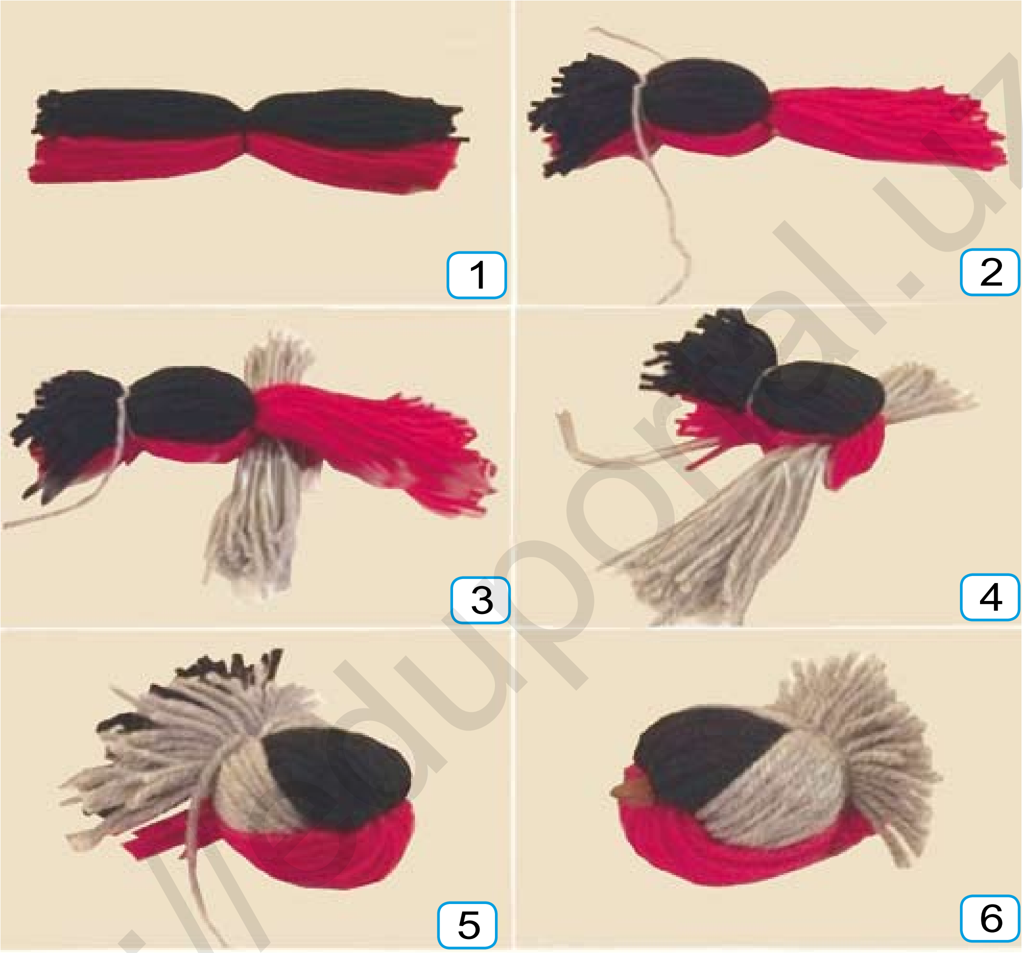
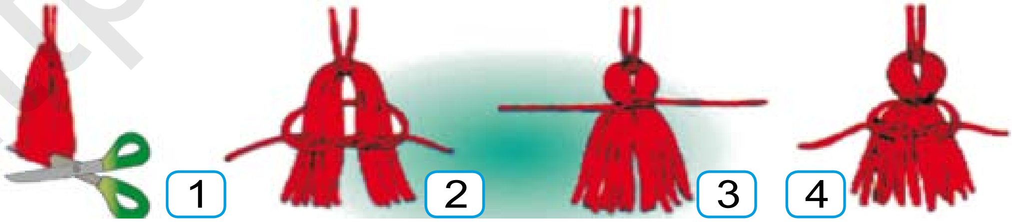
http://eduportal.uz

ÝÜPDEN OÝNAWAÇ ÝASAMAK



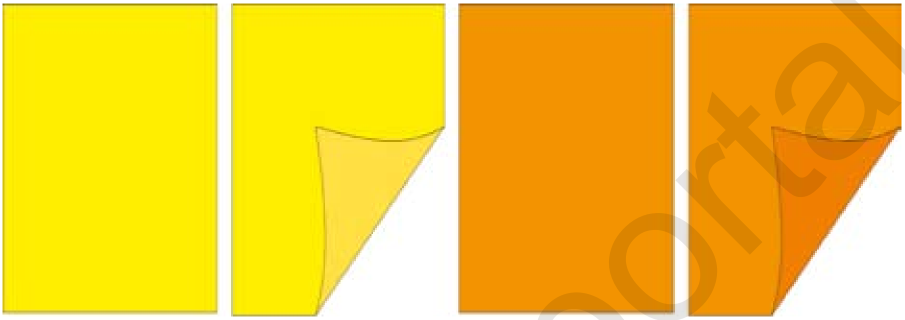
Ýüpden dürli oýnawaçlary ýasajak boluň.



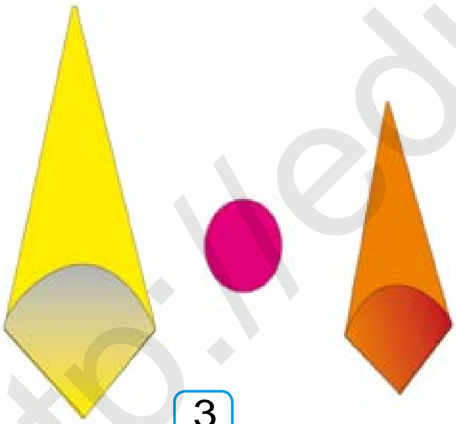
http://eduportal.uz

KAGYZY GYRKMAK WE EPLEMEK USULYNDA GÜLLERIŇ ŞEKILINI ÝASAMAK

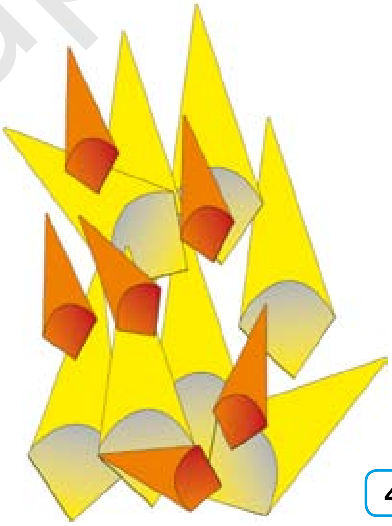
Göwrümli gül şekilini ýasamagy basgan-çaklaýyn ýerine ýetiriň.



1 2



3

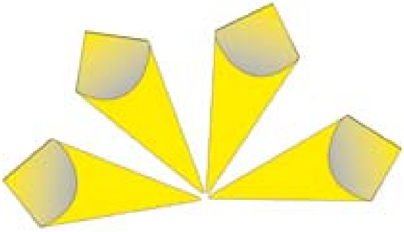


4

Gaýçydan peýdalanmagyň kadalaryny berjaý ediň.

http://eduportal.uz

Işi yzygiderlikde ýerine ýetiriň.



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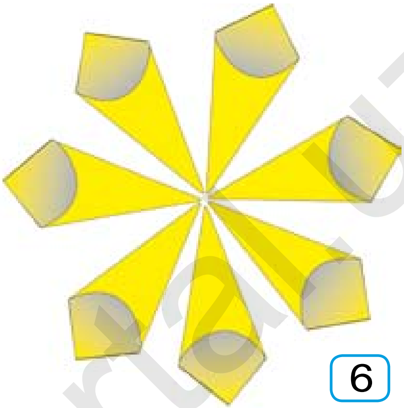

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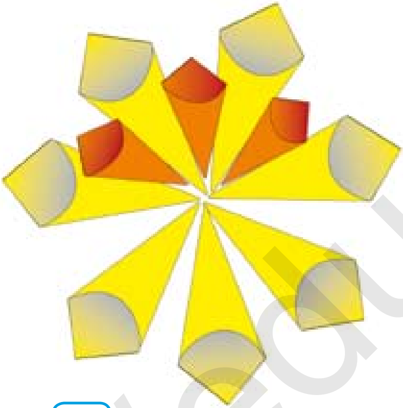

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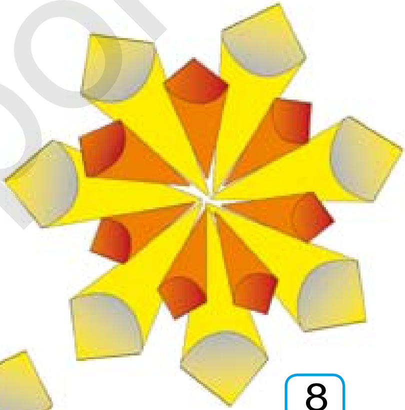

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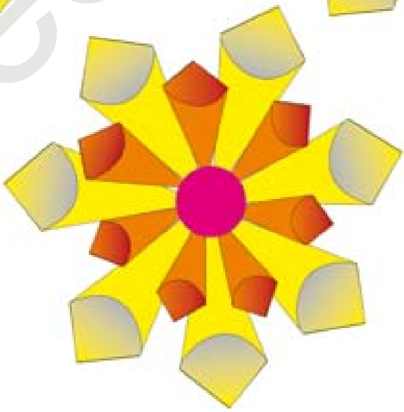

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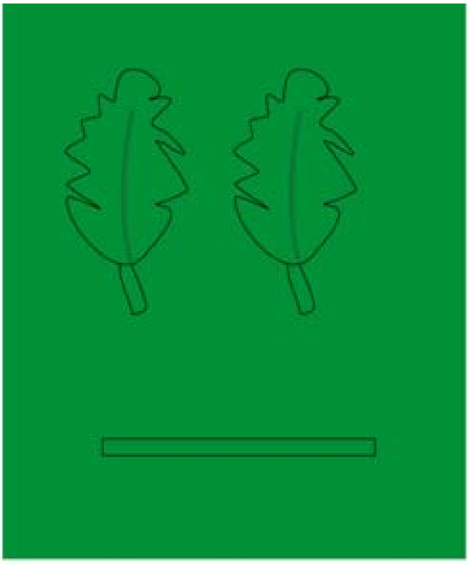

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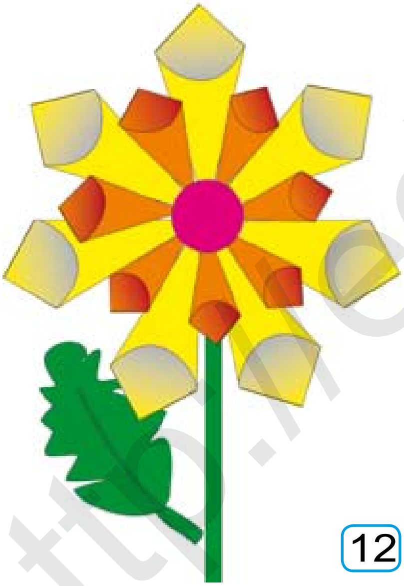

12

13

Gül ýetişdirýän käriň eýeleri barada maglumat toplaň we synpdaşlaryňyz bilen ara alyp maslahatlaşyň.

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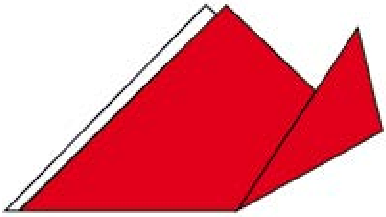
Özbaşdak işiň nusgalary



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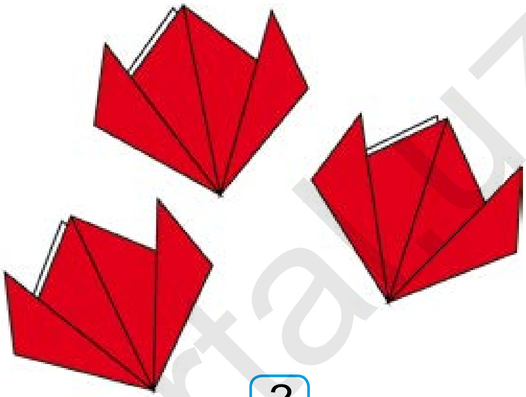

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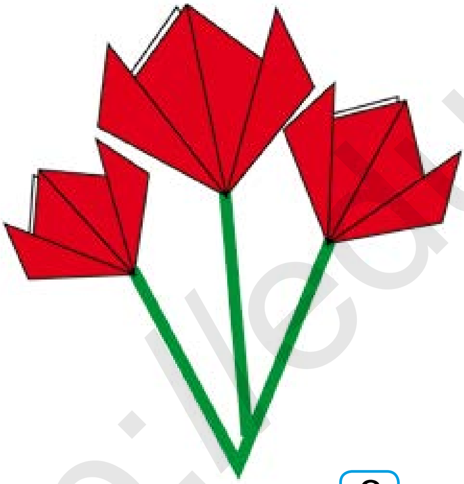

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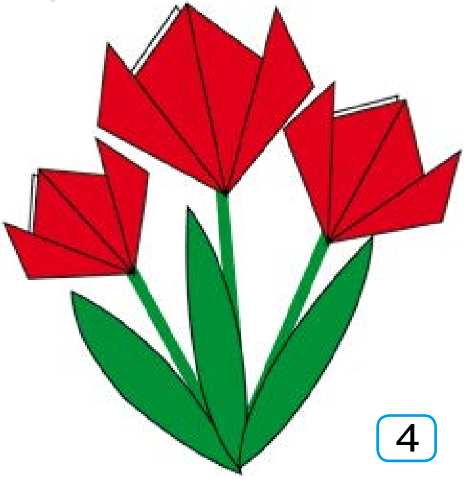

4

Çigildem gülüni dürli materiallardan özbaşdak ýasajak boluň.

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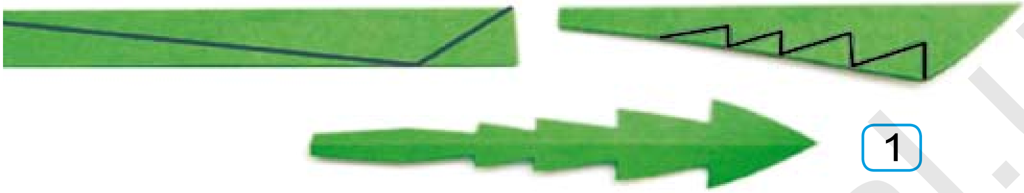
4-nji barlag işi

Dürli kagyzlardan kompozisiýa ýasamak



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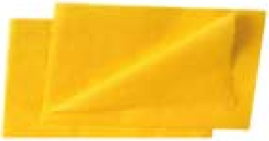

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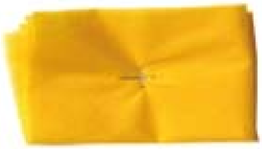

5

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7

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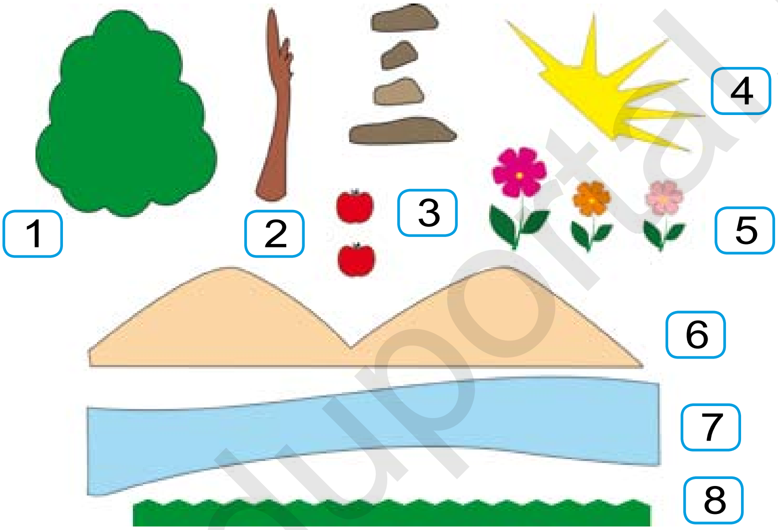
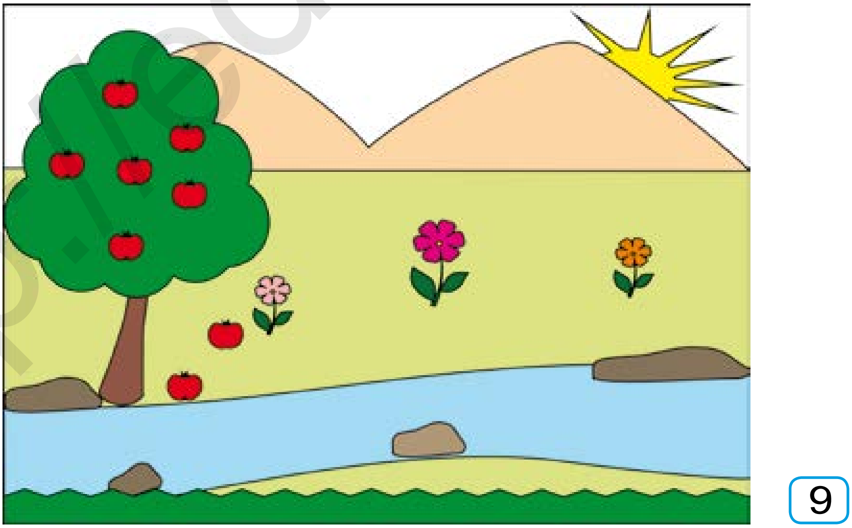
TOMUS APPLIKASIÝASYNY ÝASAMAK

! Kagyzdan “Tomus“ temasyny applikasiýa usulynda taýýarlaň.





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Özbaşdak işiň nusgalary

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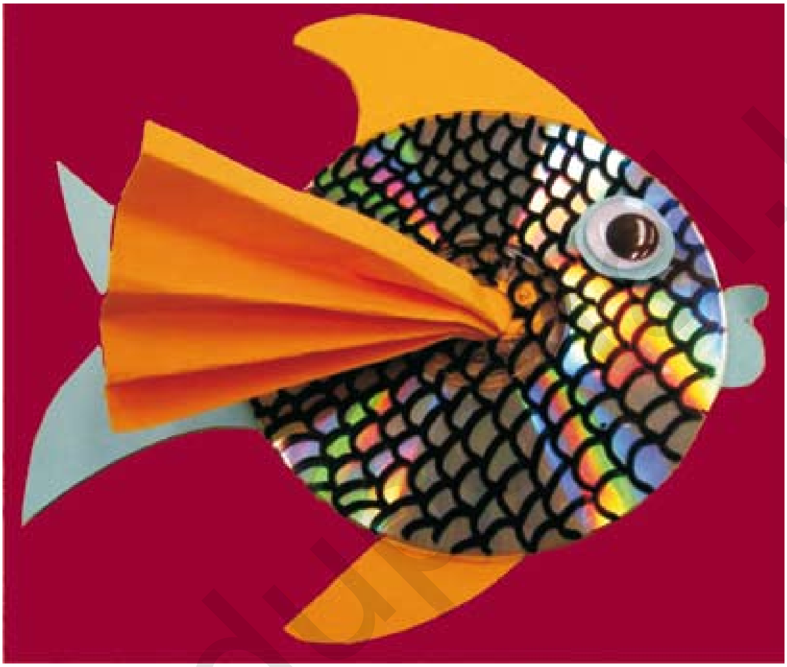
Özbaşdak işiň nusgalary



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O‘quv nashri

Xamrakul SANAKULOV,
Dilrabo XODIYEVA, Aziza SANAKULOVA

TEXNOLOGIYA

**Umumiy o‘rta ta’lim maktablarining
3-sinfi uchun darslik**

(Turkman tilida)

«Sharq» nashriyot-matbaa
aksiyadorlik kompaniyasi
Bosh tahririyati
Toshkent – 2019

Terjime eden Kamiljan Hallyýew
Redaktor Jumanazar Metýakubow
Çeper redaktor Talib Kanoatow
Tehredaktor Rasuljon Nafasow
Korrektor Jumanazar Metýakubow
Sahaplaýjy Mastura Athamowa

Neşir lisenziýasy AI № 201, 28.08.2011.

Çap etmäge 2019-njy ýylyň 18-nji iýunyda rugsat edildi. Möçberi 70x90$^{1}/_{16}$.
«Arial» garniturasy. Kegli 14 şponly. Ofset çap ediliş usuly. Şertli çap listi 5,0. Neşirýat-hasap listi 6,24. 961 nusgada çap edildi. Buýurma № 450.

**«Sharq» neşirýat-çaphana paýdarlar kompaniýasynyň
çaphanasy, 100000, Daşkent şäheri,
«Beýik Turan» köçesi, 41.**

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Kärendesine berlen dersligiň ýagdaýyny görkezýän jedwel

T/n	Okuwçynyň ady, familiýasy	Okuw ýyly	Dersligiň alnandaky ýagdaýy	Synp ýolbaşçysy-nyň goly	Dersligiň tabşyrylandaky ýagdaýy	Synp ýolbaşçysy-nyň goly
1						
2						
3						
4						
5						
6						

Derslik kärendesine berlip, okuw ýylynyň ahyrynda gaýtarylyp alnanda ýokardaky jedwel synp ýolbaşçysy tarapyndan aşakdaky baha bermek ölçeglerine esaslanylyp doldurylýar:

Täze	Dersligiň birinji gezek peýdalanmaga berlendäki ýagdaýy.
Ýagşy	Sahaby bütin, dersligiň esasy böleginden aýrylmandyr. Ähli sahypalary bar, ýyrtylmadyk, goparylmadyk, sahypalarynda ýazgylar we çyzyklar ýok.
Kanagatlanarly	Kitabyň daşy ýenjilen, ep-esli çyzylan, gyralary gädilen, dersligiň esasy böleginden aýrylan ýerleri bar, peýdalanyjy tarapyndan kanagatlanarly abatlanan. Goparylan sahypalary täzeden ýelmenen, käbir sahypalary çyzylan.
Kanagatlanarsyz	Kitabyň daşy çyzylan ýyrtylan, esasy böleginden aýrylan ýa-da bütinleý ýok, kanagatlanarsyz abatlanan. Sahypalary ýyrtylan, sahypalary ýetişmeýär, çyzylyp taşlanan. Dersligi dikeldip bolmaýar.

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O‘quv nashri

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