Coimisiún na Scrúduithe Stáit

S56T

245

SCRÚDÚ AN TEASTAIS SHÓISEARAIGH, 2003

# ÁBHAIR AGUS TEICNEOLAÍOCHT

## MIOTALÓIREACHT - GNÁTHLEIBHÉAL

100 Marc

Dé Máirt, 17 Meitheamh, Tráthnóna, 2.00 go dtí 3.30

Uimhir an Ionaid

Uimhir Scrúdaithe

| Don Scrúdaitheoir | |
|---|---|
| Móriomlán na Marcanna | |
| **Ceist** | **Marc** |
| 1A | |
| 1B | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |
| 6 | |
| Móriomlán | |
| Grád | |

| | |
|---|---|
| 1. Iomlán na n-iomlán ag deireadh na leathanach | |
| 2. Iomlán na marcanna do cheisteanna nach ceadmhach | |
| 3. Iomlán na marcanna bronnta (1 lúide 2) | |
| 4. Bónas i gcóir freagartha tré Ghaeilge (más cuí) | |
| 5. Iomlán marcanna bronnta má tá Bónas i gceist (3 + 4) | |

<u>Nóta</u>: Ní mór na marcanna i sraith 3 (nó sraith 5 más cuí an Bónas tré Ghaeilge) a bheith ionann leis na marcanna sa bhosca <u>Móriomlán</u> ar an script

### TREORACHA

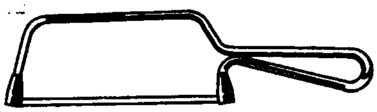
1. Freagair ceist 1, roinn A <u>agus</u> roinn B, agus <u>trí cheist</u> ar bith eile.
2. Freagair na ceisteanna sna spásanna atá ann dóibh nó cuir tic sa bhosca cuí. ☑
3. Cuir an páipéar seo ar ais ag deireadh an scrúdaithe.

**NÁ DÉAN DEARMAD D'UIMHIR SCRÚDAITHE A CHUR SA BHOSCA ATÁ ANN DI AR AN LEATHANACH SEO**

**1.** **40 Marc**

## ROINN A - 20 MARC
**FREAGAIR DEICH gCEIST AR BITH ÓN ROINN SEO**

**(a)**



*Is é atá san uirlis ghearrtha seo ná:*

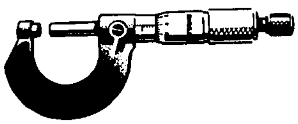
- Creimsábh
- Mionsábh Miotail
- Sábh Cóipeála
- Mion-chróshábh

**(b)**

*Úsáidtear an uirlis seo agus duine ag:*

- Seamú
- Druileáil
- Snáithiú
- Sádráil

**(c)**

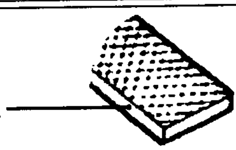


*Is é atá san uirlis tomhais seo ná:*

- Cailipéar Vernier
- Cailipéar Seachtrach
- Micriméadar
- Tomhsaire Doimhneachta

**(d)**

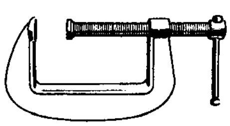
X



*Is é a thugtar ar Pháirt 'X' ná:*

- an Faobhar Réidh
- an Faobhar Sábháilte
- an Fhaobhar Dúbailte
- an Fhaobhar Singil

**(e)**

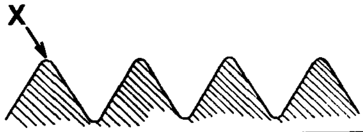


*Is é atá san uirlis seo ná:*

- Bís Mheaisín
- Bís Láimhe
- Bísghreamáin
- G-Crampa

**(f)**

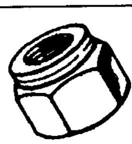
X



*Is é a thugtar ar Pháirt 'X' na snáithe ná:*

- an Cliathán
- an Rith
- an Chéim
- an Barr

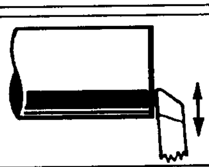
**(g)**



*Is é atá sa cheanglóir seo ná:*

- Seam
- Glaschnó
- Bolta
- Cruimhscriú

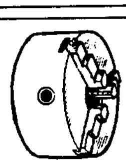
**(h)**



*Is é a thugtar ar an obair dheile seo ná:*

- Dípháirtiúchán
- Snáithiú
- Foirbiú
- Fásáil

**(i)**



*Is é a thugtar ar an mball deile seo ná:*

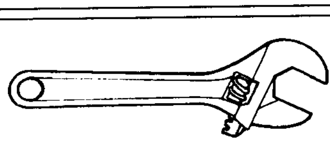
- Cúlstoc
- Crágán Trí Ghiall
- Ceannstoc
- Uachtarshleamhnán

**(j)**

*Is é atá san uirlis ghearrtha seo ná:*

- Casdruilire
- Réamaire
- Druilire Láir
- Druilire Leacaithe

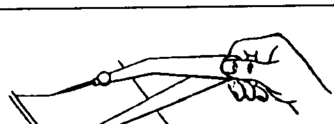
**(k)**



*Is é a thugtar ar an uirlis seo ná:*

- Soicéad
- Castaire Fáinneach
- Castaire Insocraithe
- Raicín

**(l)**

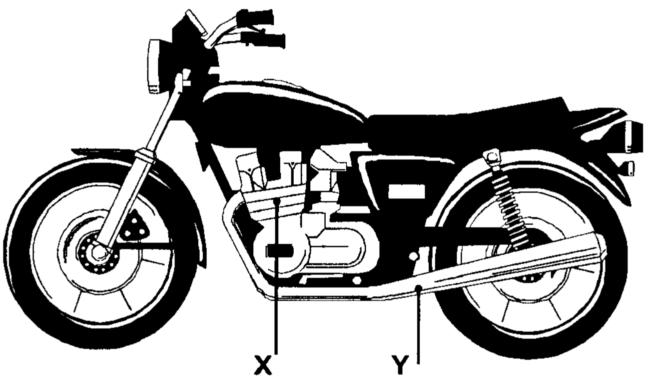


*Is é a thugtar ar an uirlis mharcála seo ná:*

- Cailipéar Inmheánach
- Cailipéar Corrchosach
- Spriongrannadóir
- Scríobaire

## ROINN B - 20 MARC
**FREAGAIR GACH CEIST ÓN ROINN SEO**

**(m)** *(i) Ainmnigh miotal a úsáidtear leis an gcás innill 'X' a dhéanamh:*



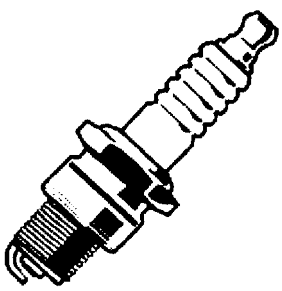

*(ii) An bhfuil an miotal seo feiriúil nó neamhfheiriúil?*

*(iii) An meirgíonn an miotal seo?*

*(iv) Cuirtear brat miotail ar an bpíobán sceite 'Y' de gnáth. Ainmnigh an miotal seo.*

**4 Mharc**

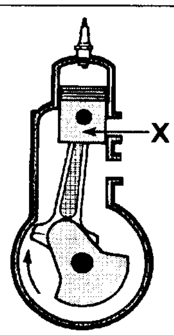
**(n)**



*Luaigh an fheidhm atá leis an spréachphlocóid.*

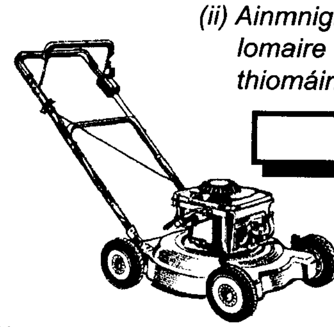
**4 Mharc**

**(o)**




*(i) Is é a thugtar ar Pháirt 'X' ná:*

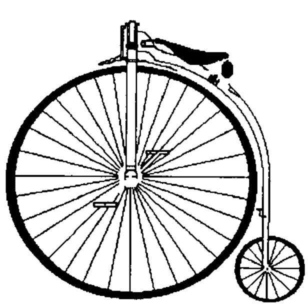
| | |
|---|---|
| an Chomhla | |
| an tSlat Chónaisc | |
| an Loine | |
| an Cromsheafta | |



*(ii) Ainmnigh feiste eile seachas an lomaire faiche a d'fhéadfaí a thiomáint le hinneall peitril.*

**4 Mharc**

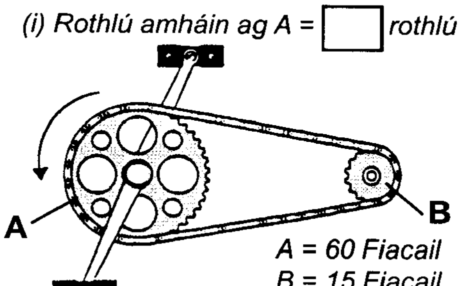
**(p)** *Liostaigh ceithre dhifríocht idir an rothar seo agus rothar nua-aimsire.*



1.
2.
3.
4.

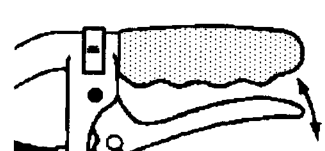
**4 Mharc**

**(q)** *(i) Rothlú amháin ag A = ☐ rothlú ag B.*




*A = 60 Fiacail*
*B = 15 Fiacail*

*(ii) Léirigh le saighead pointe buthail an luamhán coscáin.*



**4 Mharc**

**2.** **20 Marc**

**(a)** **Críochnaigh an chairt:**

| Ábhar | Liostaigh feidhm do gach ábhar |
|---|---|
| Níolón | |
| Copar | |
| PVC | |
| Cruach Dhosmálta | |
| Prás | |
| Polaitéin | |
| Cruach Bhog | |
| Sinc | |

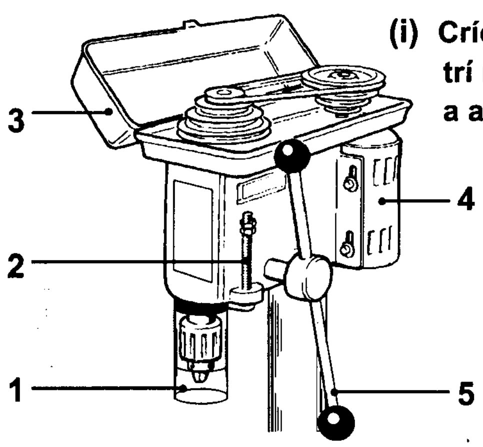
8 Marc

**(b)** **Críochnaigh an chairt:**

| | | | |
|---|---|---|---|
| (i) | An ea gur féidir plaistigh theirmithéachtacha a athchruthú? | Sea | |
| | | Ní hea | |
| (ii) | An ea go dtugtar bácsaít ar mhian alumanaim? | Sea | |
| | | Ní hea | |
| (iii) | An ea gur seoltóir teasa maith é an copar? | Sea | |
| | | Ní hea | |
| (iv) | An ea gur cóimhiotal de chopar agus stán é an cré-umha? | Sea | |
| | | Ní hea | |
| (v) | An ea go n-úsáidtear iarann teilgthe le grátaí tinteán a dhéanamh? | Sea | |
| | | Ní hea | |
| (vi) | An ea gur cóimhiotal í cruach bhog? | Sea | |
| | | Ní hea | |

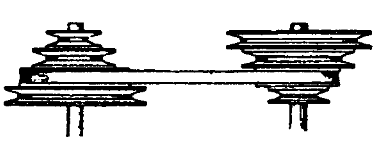
6 Mharc

**(c)**




**(i)** **Críochnaigh an chairt trí na páirteanna a ainmniú:**

| Uimhir na Páirte | Ainm |
|---|---|
| 1. | |
| 2. | |
| 3. | |
| 4. | |
| 5. | |



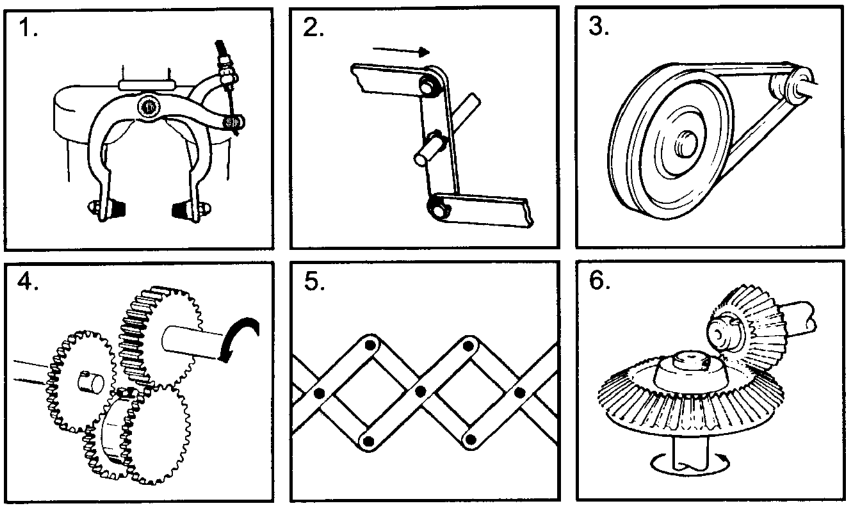
**(ii)** **Úsáidtear ulóga céimithe i ndruilire colúin chun:**

| | |
|---|---|
| An luas a athrú | |
| An fotha a athrú | |

6 Mharc

**3.** **20 Marc**

**(a)** **(i) Meaitseáil an uimhir leis an mheicníocht chuí.**



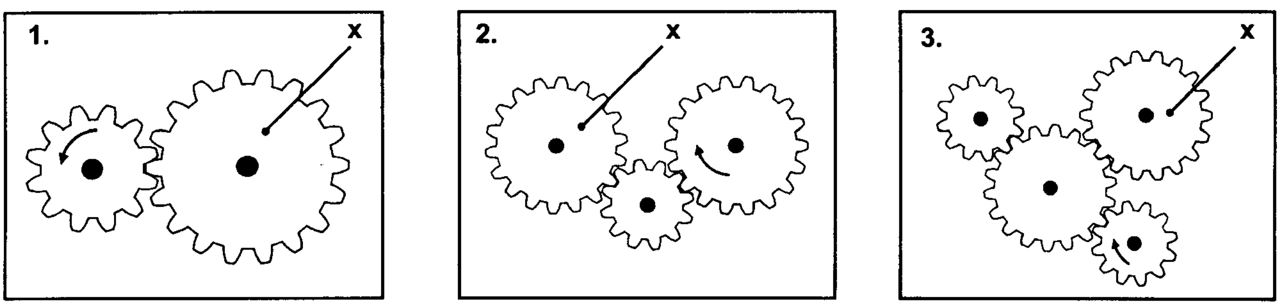

| Meicníocht | Uimhir |
|---|---|
| Cromán Cloige | |
| Cosc Cailipéir | |
| Beibhealghiaranna | |
| Nascáil Chomhthreomhar | |
| Giarshraith | |
| Córas Ulóg | |

**(ii) Cé acu de na meicníochtaí seo a núsáidtear i ndruilire láimhe?**

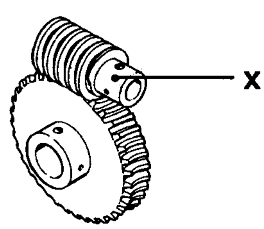
**(iii) Ainmnigh meaisín eile a bhaineann úsáid as ceann de na meicníochtaí seo. Luaigh uimhir an mheaisín seo.** **Uimhir**

**8 Marc**

**(b)** **(i) Léirigh treo an ghiair 'X' i ngach ceann díobh seo a leanas:**



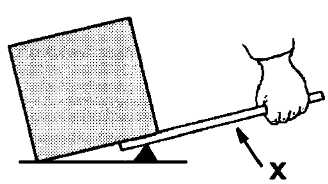

**(ii) Is é atá sa ghiar 'X' ná:**



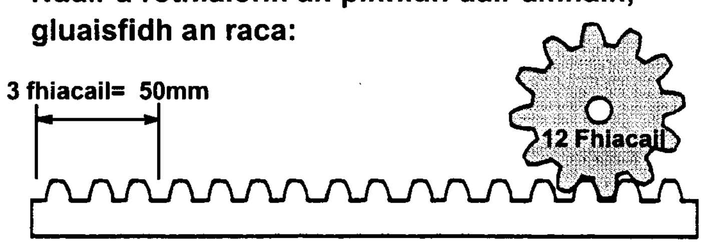

| | |
|---|---|
| Sporghiar | |
| Beibhealghiar | |
| Giar Péiste | |
| Giar Héiliciúil | |

**6 Mharc**

**(c)** **(i) Ainmnigh 'X':**




**(ii) Nuair a rothlaíonn an pinniún uair amháin, gluaisfidh an raca:**



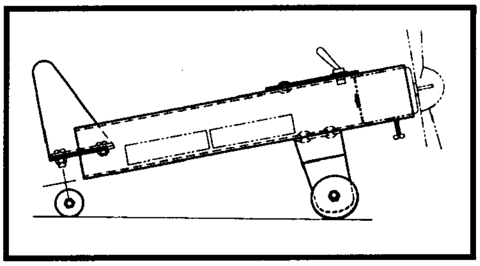

| | |
|---|---|
| 1000mm | |
| 200mm | |
| 600mm | |
| 100mm | |

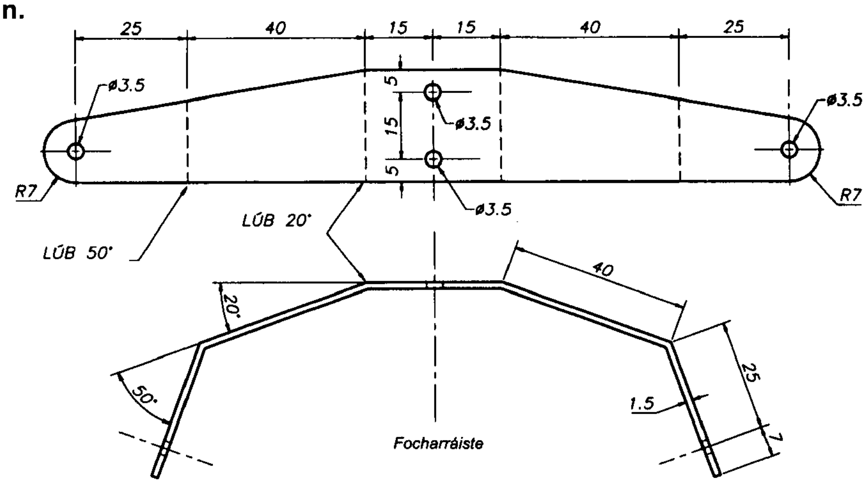
**(iii) Ainmnigh meaisín a úsáideann raca agus pinniún:**

**6 Mharc**

**4.** **20 Marc**

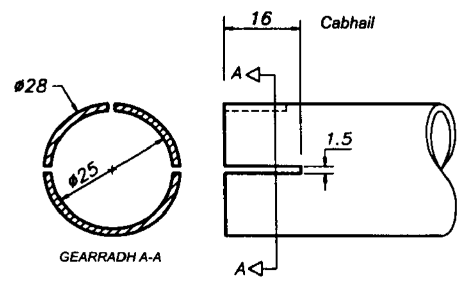
**Taispeántar sonraí mhionsamhail eitleáin.**






**(i)** **Déan cur síos ar na céimeanna atá i gceist i marcáil amach agus i lúbadh an fhocharráiste i gcruth.**

**(ii)** **Cad í an uirlis cheardlainne a úsáidtear chun na huillinneacha ar an bhfocharráiste a sheiceáil?**

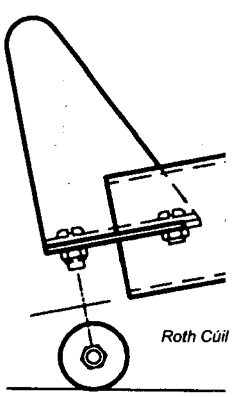



**(iii)** **Déan cur síos ar an dóigh a marcáiltear amach na sliotáin sa chabhail.**

**(iv)** **Mínigh an fheidhm atá leis na comhbhaill a leanas san eitleán.**

| Comhbhall | Feidhm |
|---|---|
| Bataire | |
| Lasc | |
| Mótar | |

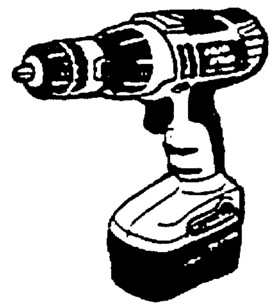
**(v)** **Dearaigh taca don roth cúil sa ghreille thíos.**



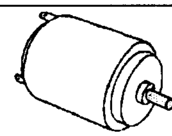
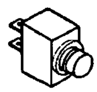

**NÁ hÚSÁID ACH PEANN LUAIDHE**

**5.** **20 Marc**

**(a) (i)** Roghnaigh na siombailí cearta ón chairt agus críochnaigh an léaráid chiorcaid don druilire le hoibriú bataire



**Tarraing an ciorcad sa mbosca seo.**

| Comhbhall | Siombailí |
|---|---|
| | |
|  | |
|  | |

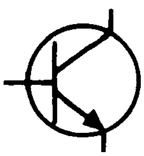
**(ii)** Liostaigh buntáiste amháin a bhaineann le druilirí le hoibriú bataire.

______________________________

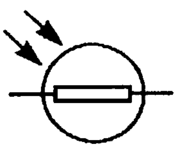
______________________________

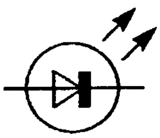
**8 Marc**

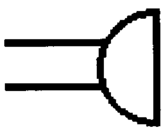
**(b) (i)** Meaitseáil an uimhir leis an tsiombail cheart.

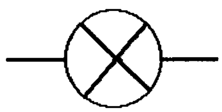
1.


2.

3.


4.


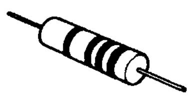
5.


6.


| Comhbhall | Uimhir |
|---|---|
| Bolgán | |
| LDR | |
| LED | |
| Lasc | |
| Dordánaí | |
| Trasraitheoir | |

**(ii)** Cad is brí leis an téarma leictreach A.C.? [ ]

**(iii)** An trasraitheor é an comhbhall seo?



Sea [ ] Ní hea [ ]

**8 Marc**

**(c) (i)** Ainmnigh cumadóir cáiliúil innealtóireachta amháin. [ ]

**(ii)** Cad a chum an duine seo?

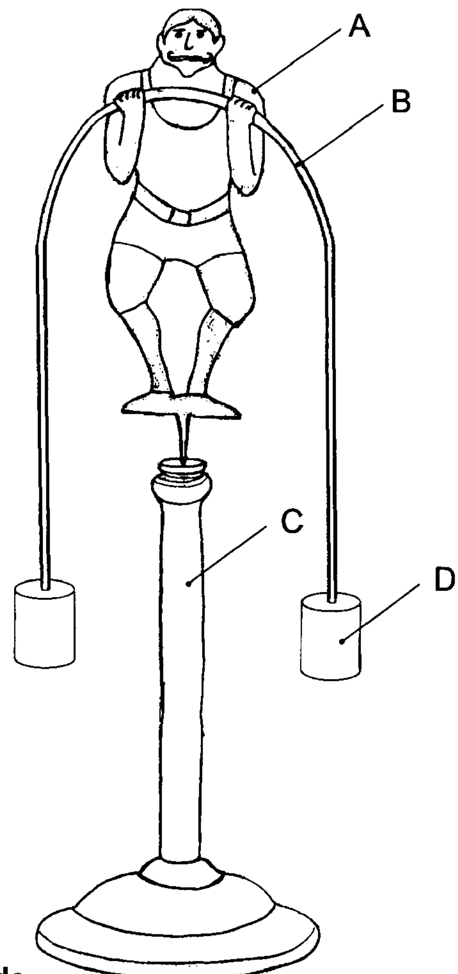
**(iii)** Conas a d'athraigh aireagán an duine seo an modh a maireann muid?

**4 Marc**

**6.** **20 Marc**

**(i)** **Taispeánann an dearadh seo ornáid deisce. Liostaigh trí uirlis a mbaintear úsáid astu le Páirt 'A' a dhéanamh.**

| | |
|---|---|
| 1. | |
| 2. | |
| 3. | |



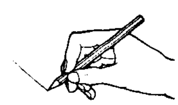

**(ii)** **Liostaigh ábhair chuí do na páirteanna a bhfuil na lipéid 'A', 'B' agus 'C' orthu.**

| | |
|---|---|
| A. | |
| B. | |
| C. | |

**(iii)** **Déan cur síos gearr ar na céimeanna atá i gceist agus Páirt 'D' a dhéanamh ar an deil.**

| |
|---|
| |
| |
| |
| |
| |
| |

**(iv)** **Tá ort bonn difriúil a dhearadh don ornáid. Ag baint úsáide as comhréirí maithe, déan léaráid néata saorláimhe den dearadh sa ngreille thíos.**



**BAIN ÚSÁID AS PEANN LUAIDHE AMHÁIN.**

**(v)** **An ea gur féidir úsáid a bhaint as cúlstoc na deile le haghaidh druileála?**

| | |
|---|---|
| Sea | |
| Ní hea | |