
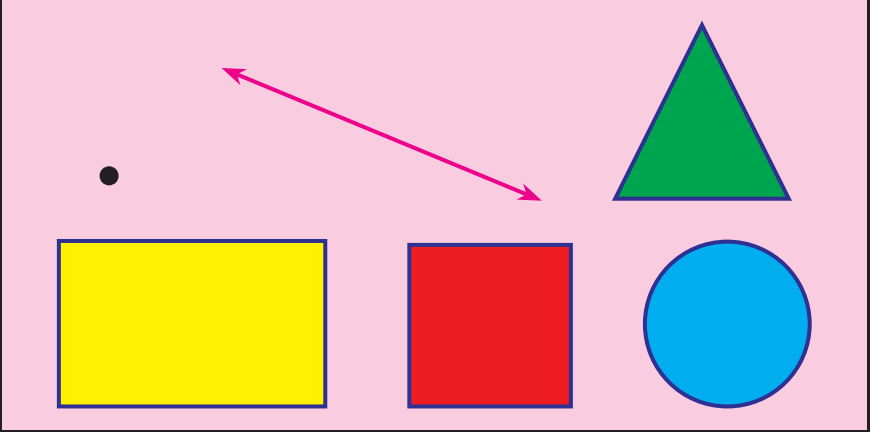


**Boqonnaa**

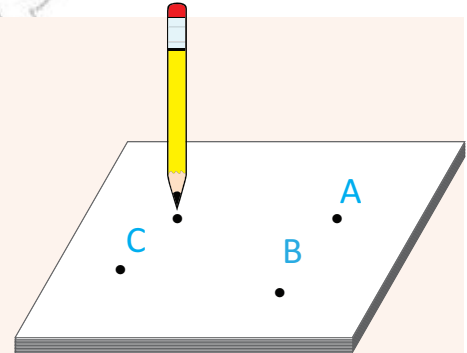
**TUQAALAA, SARAROOTAA  
FI BOCOOTA**

## 6.1 SARARTUUTTI FAYYADAMUUN SARARA FAKKEESSUU

### GOCHA 6.1

Dabtara kee irratti fiixee qubeessaatiin waraqaa tuqi. Mallattoon waraqaa irratti mul'atu tuqaa jedhama.

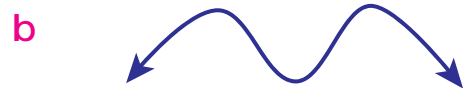
Tuqaalee argatte qubee A, B fi Cn moggaasi.

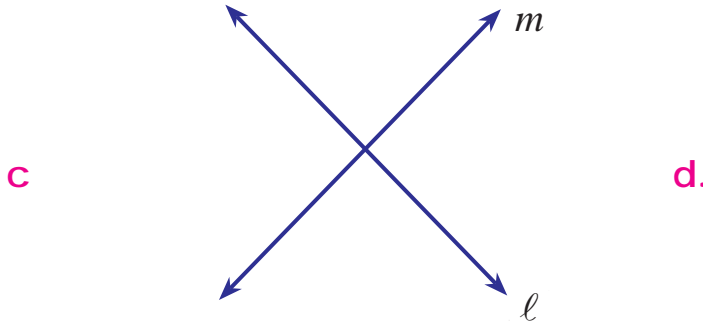


### Fakkeenya 1

Tuqaalee fi sararoota

*Danaalee armaan gadii ilaali.*

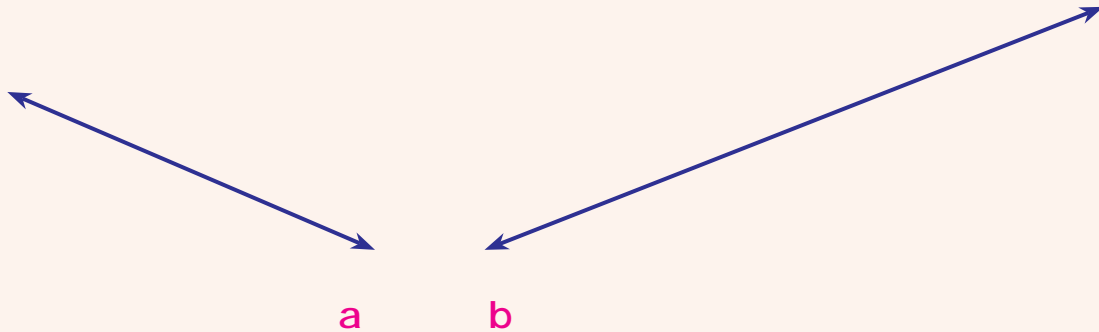




- 1 Sararri (a) irratti argamu sarara qajeelaa jedhama. Sararri kun  $l$  jedhamee waamama.
- 2 Sararoonni (c) irratti kennaman sararoota walqaxxamuraaw jedhamu.
- 3 Danaan (d) irratti kenname tuqaa dha.
- 4 Sararri (b) irratti kenname sarara jallaa jedhama.

### GOCHA 6.2

- 1 *Sararoota armaan gadii moggaasi.*



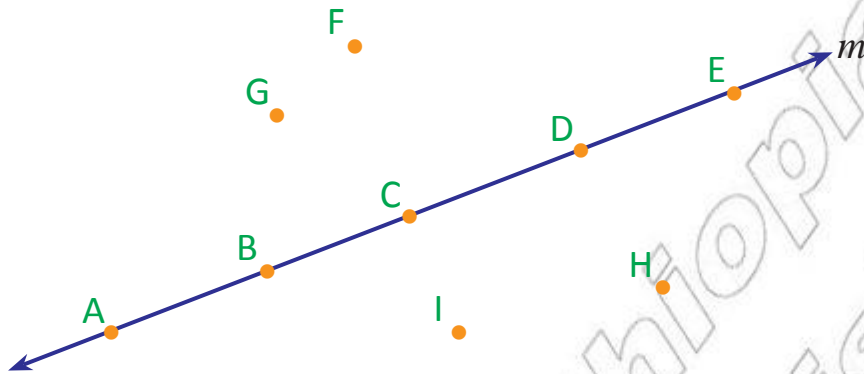
- 2 Sarartuutti gargaaramuun sarara qajeelaa dabtara kee irratti hojjadhu.
- 3 Sarara qajeelaa tuqaa A fi tuqaa B armaan gadii keessa ba'u dabtara kee irratti fakkeessi.

A

B

## Fakkeenya 2

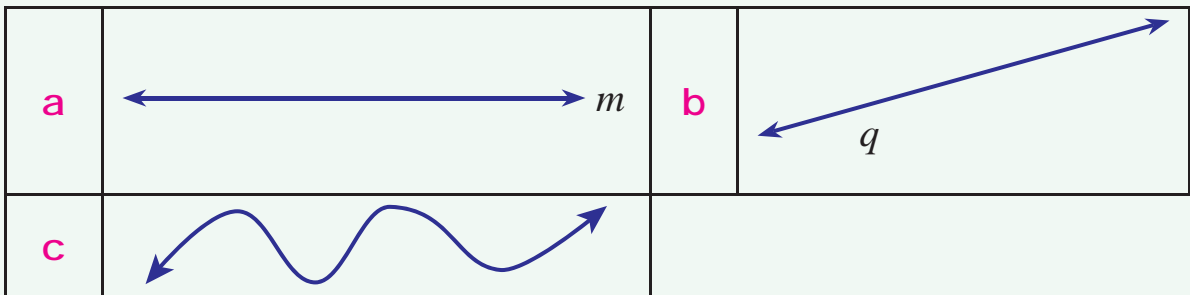
Sarara  $m$  armaan gadii ilaali.



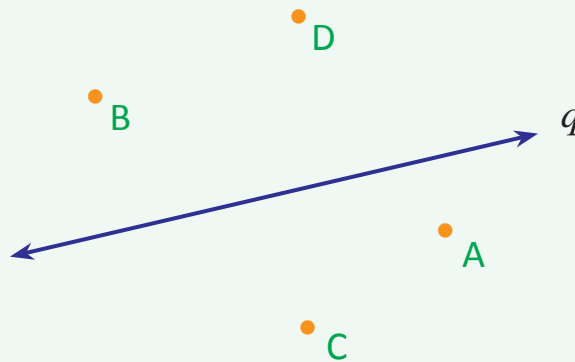
- Tuqaaleen A, B, C, D fi E sarara “ $m$ ” irratti argamu.
- Tuqaaleen F fi G’n sarara “ $m$ ” irraa gara oliitti argamu.
- Tuqaaleen H fi I’n sarara “ $m$ ” irraa gara gadiitti argamu.

### GILGAALA 6.1

1 Sararoota armaan gadii keessaa kanneen sararoota qajeeloo ta’an isaan kami?



2 Gaaffilee armaan gadii danaalee kennaman irratti hundaa’uun deebisi.



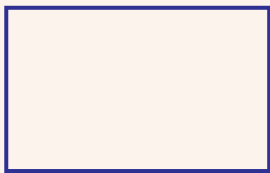
- a Sararri kenname sarara \_\_\_\_\_ jedhama.
- b \_\_\_\_\_ fi \_\_\_\_\_ tuqaalee sarara q irraa gara oliitti argamani dha.
- c \_\_\_\_\_ fi \_\_\_\_\_ tuqaalee sarara q irraa gara gadiitti argamani dha.
- 3 Sarartuu fi qubeessaatti fayyadamuun sararoota qajeeloo walqaxxaamuran lama fakkeessi. Tuqa isaan irratti walqaxxaamuran qubee “E” dhaan moggaasi.
- 4 Sarartuutti fayyadamuun sarara qajeelaa tuqaa A fi tuqaa B keessa dabru fakkeessi.



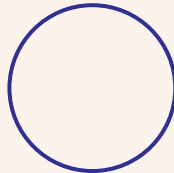
## 6.2 REKTAANGILOOTA, ROGSADEEWWAN, ISKUWEEROTA, GEENGOOWWANII FI BOCAALEE

### HOJII GAREE

- 1 *Danaalee armaan gadii rektaangilii, rogsadee, iskuweerii fi geengoo jechuun addaan baasi.*



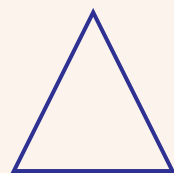
a



b



c

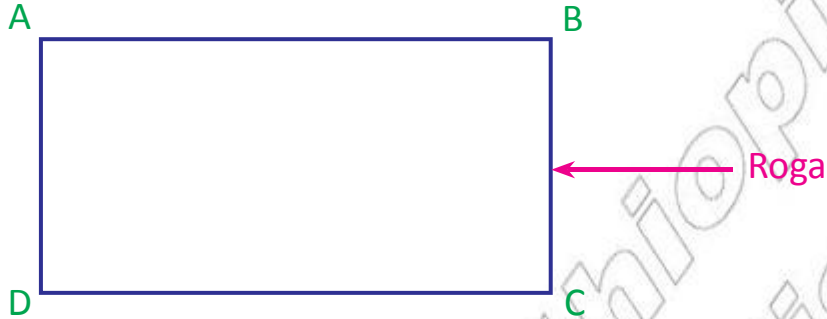


d

- 2 Naannoo kee keessaa wantoota bocoota armaan olii wajjiin walfakkaatan tarreessi.

### 6.2.1 REKTAANGILII

Rektaangiliin rogoota afur qaba. Rogoonni waliif fuullee ta'an lamaan walqixa. Fakkeenyaaf, danaan armaan gadii rektaangiliidha.

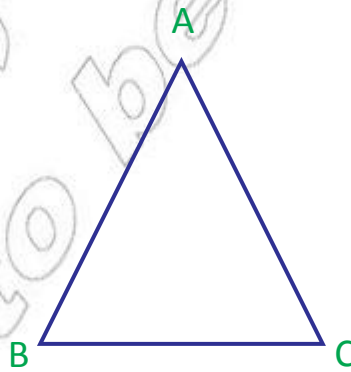


Rektaangiliin armaan olii kun rektaangilii **ABCD** jedhamee waamamuu danda'a.

Karaa biraas, rektaangilii BCDA, DCBA, CBAD jedhamee moggaafamuus ni danda'a.

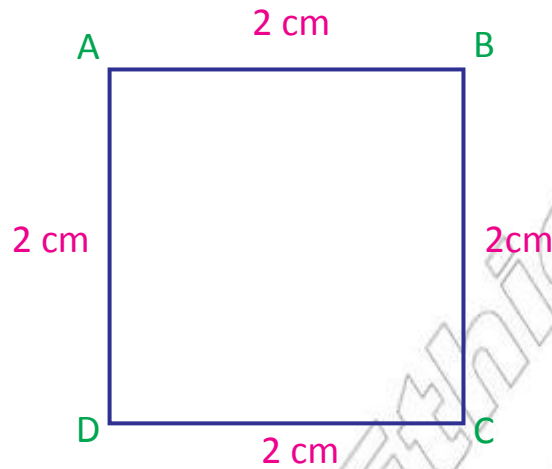
### 6.2.2 ROGSADEE

Rogsadeen rogoota sadii qaba. Danaan armaan gadii kun rogsadee jedhama. Rogsadee **ABC** jedhamee waamama. Kanas mallattoon  $\triangle ABC$  jennee barreessina. Moggaasotni isaas  $\triangle BCA$ ,  $\triangle CBA$ ,  $\triangle CAB$  jedhamuu danda'a.



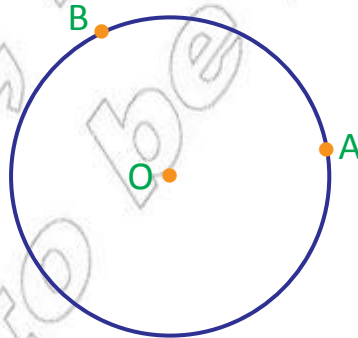
### 6.2.3 ISKUWEERII

Iskuweeriin rogoota afur qaba. Rogootni hunduu dheerina walqixa qabu.



Danaan armaan olii iskuweeriidha.  $\overline{AB}$ ,  $\overline{AD}$ ,  $\overline{CD}$  fi  $\overline{BC}$  rogoota iskuweerii kanaati. Rogootni kun arfanuu dheerina walqixa ta'e qabu. Iskuweerichi yoo waamamu, iskuweerii ABCD jedhameeti. Iskuweerii kana BCDA, DCBA, ADCB, CDAB keessaa tokkoon moggaasuus dandeenya.

### 6.2.4 GEENGOO



Danaan armaan olii geengoo jedhama. "O"n handhuura geegichaati. A fi B'n tuqaalee geegoo irratti argamani.

Geengoon kun yoo waamamu geengoo 'O' jedhama.

## GILGAALA 6.2

- 1 *Danaalee armaan gadii roga “A” jalatti tarreeffaman maqaa isaanii isaan roga “B” jalatti tarreeffaman waliin walitti firoomsi.*

“A”“B”

1.1



a. Iskuweerii

1.2



b. Geengoo

1.3



c. Rogsadee

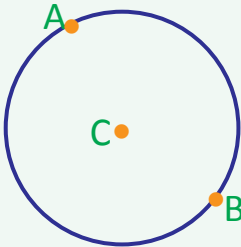
1.4



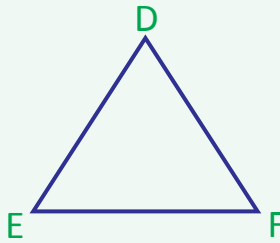
d. Rektaangilii

- 2 Sarartuutti fayyadamuun rektaangilii, rogsadee fi iskuweerii fakkeessi. Wantoota boca geengoo qabanitti fayyadamuun immoo geengoo fakkeessi.

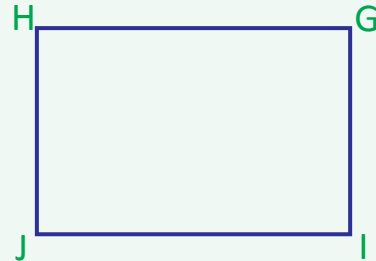
- 3 *Danaalee armaan gadii ilaaluun gaaffilee dhiyaatan deebisi.*



a



b



c

- a Rogsadeen (b) irratti kenname rogsadee \_\_\_\_\_ jedhama.
- b Rogonni rogsadee (b) irratti kennamee \_\_\_\_\_, \_\_\_\_\_ fi \_\_\_\_\_ dha.
- c Geengoon (a) irratti kenname geengoo \_\_\_\_\_ jedhama.
- d Handhuurri geengoo (a) irratti kannamee \_\_\_\_\_ dha.
- e Rektaangiliin (c) irratti kenname rektaangilii \_\_\_\_\_ jedhama.
- f Rogoonni rektaangilii (c) irratti kennamee \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_ fi \_\_\_\_\_ dha.