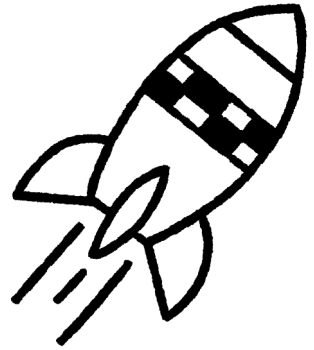


Qiyaasida korontada (Electric Current)

Sayniska

Cutub: Wareegyada taxan (Series Circuits)



Natiijo

Waxaan qiyaasi karaa korontada (Current) oo aan sharxi karaa qaanuunka korontada ee wareegga taxan (Series Circuit).

Erayada muhiimka ah

ammeter (Ammeter)

amps (A)

**wareeg taxan (Series
Circuit)**

Ammeter waa qalab qiyaasa korontada (Current) ku socota wareegga.

Ammeter wuxuu qiyaasaa korontada (Current) cutubyo loo yaqaan amps (A), oo gaaban yahay amperes.

Wareeg taxan (Series Circuit) waa wareeg koronto oo leh hal wareeg oo dhamaystiran oo ka bilaabma dhamaadka batteriga ilaa dhamaadka kale.

Qiyaasida korontada (Electric Current)



Isticmaalka ammeter-ka



Korontada (Current) ee wareegyada leh ammeter

Isticmaalka ammeter-ka

Kani waa ammeter.

Waxaa loo isticmaalaa in lagu qiyaaso korontada (Current) ku socota wareegga.

Wuxuu muujiyaa korontada (Current) amps (A), oo gaaban yahay amperes.

Calaamadda ammeter-ka waa:



Isticmaalka ammeter-ka

Mid ka mid ah sawirada hoose waa ammeter?



a

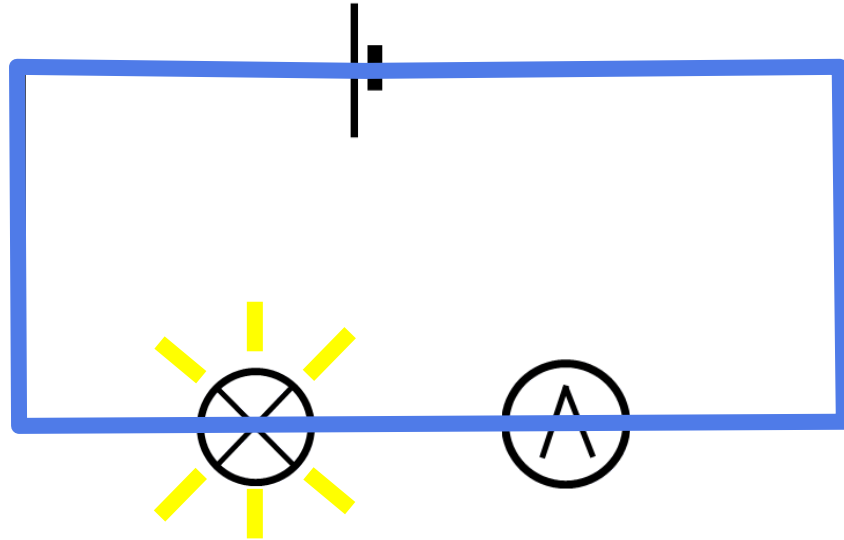


b ✓



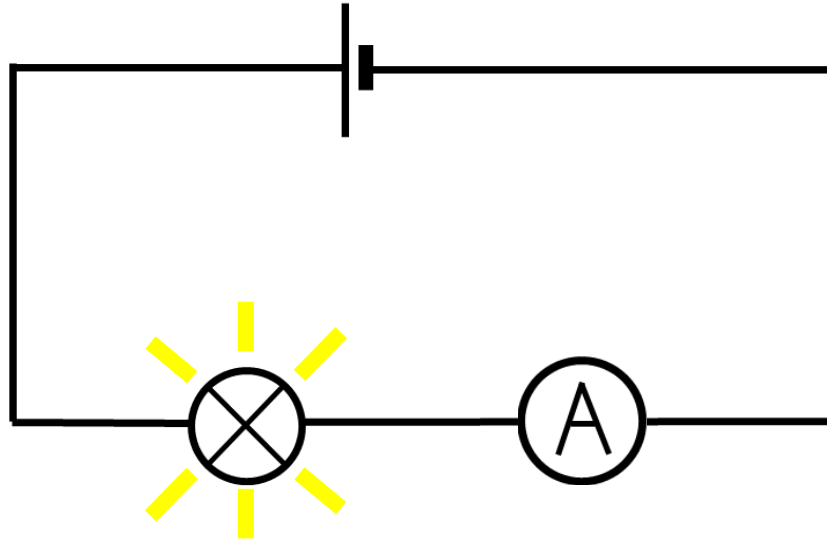
c

Ammeter-yada had iyo jeer waxaa la dhigaa si taxan (Series) oo leh qaybaha.



Ammeter-kani waa qayb ka mid ah hal wareegga (Loop) ee wareegga, sidaas darteed dhammaan korontada (Current) waa ay dhex martaa.

Marka ammeter-ka (Ammeter) la geliyo wareegga (Circuit), hadda (Current) waa isku mid.

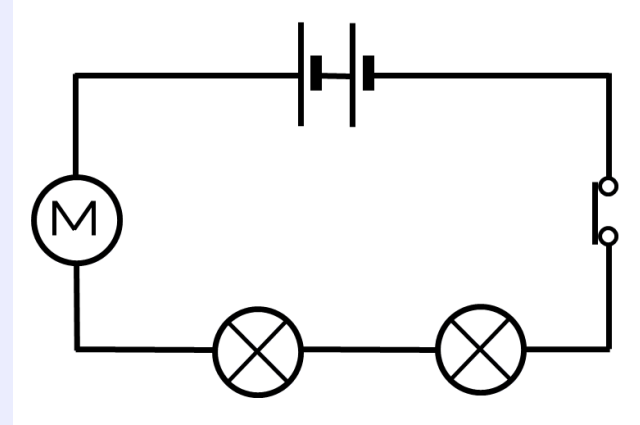


Ammeter-yada (Ammeters) waxay cabbiraan hadda (Current) iyagoon saameyn ku yeelan socodkiisa.

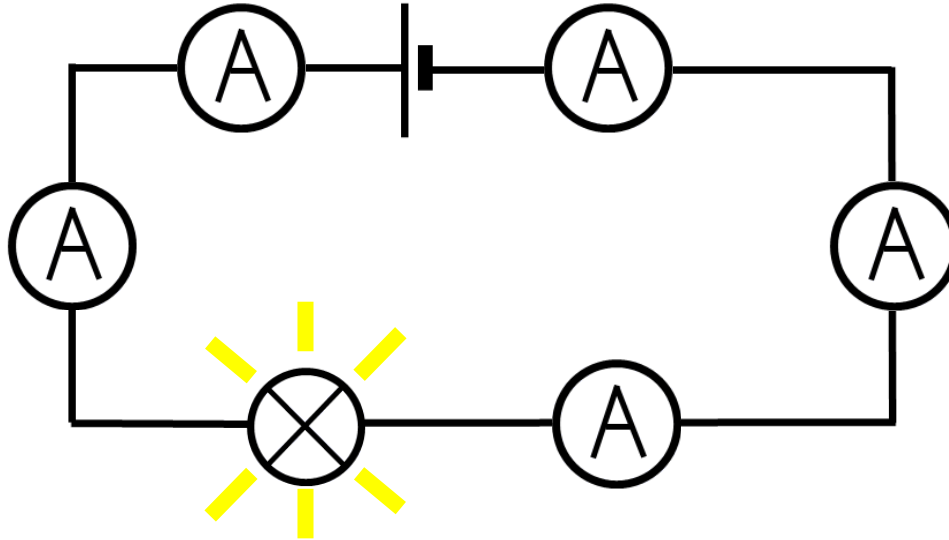
Isticmaalka ammeter-ka (Ammeter)

Ammeter-ka (Ammeter) waxaa la dhigaa taxane (Series) wareeggan (Circuit).
Sheegashadee (Statement) waa sax?

- a** Haddii la dhigo kahor matoorka (Motor), matoorku (Motor) wuu gaabiyaa.
- b** Meel kasta oo la dhigo, saameyn (Effect) ma jirto. ✓
- c** Haddii la dhigo dhexda labada laambad (Lamps), laambadaha (Lamps) kaliya ayaa gudcurma.
- d** Meel kasta oo la dhigo, matoorku (Motor) wuu gaabiyaa, laambaduhuna (Lamps) way gudcurmaan.

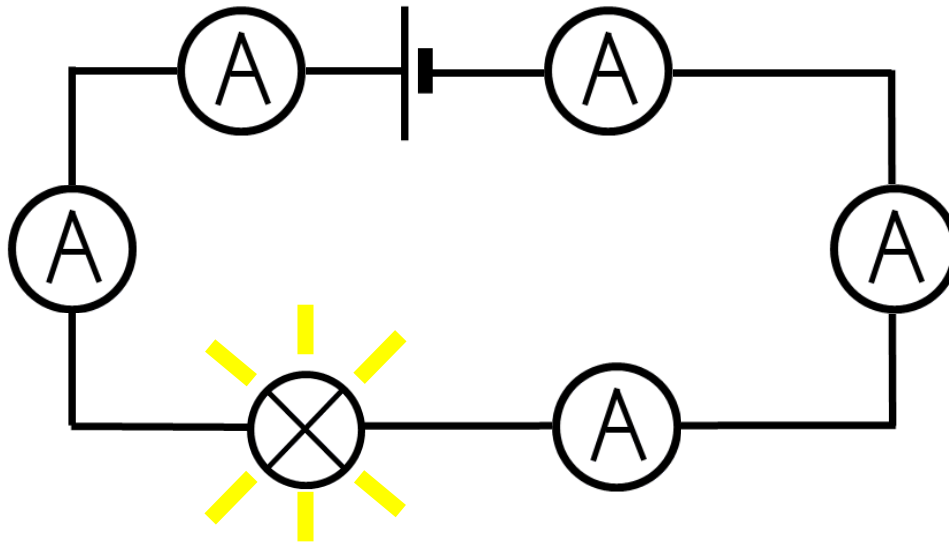


Ammeter-ka (Ammeter) waxaa la dhigi karaa meel kasta oo wareeg taxane (Series Circuit) ah.



Hadda (Current) oo dhan ayaa wali dhex maraysa, marka hadda (Current) uu cabbirayo waa isku mid.

Ammeter-yadu (Ammeters) saameyn (Effect) kuma laha hadda (Current) wareegga (Circuit).



Laambaddan (Lamp) waxay heshaa isku hadda (Current) waxayna ahaataa mid iftiin isku mid ah, xataa haddii ammeter-yadan (Ammeters) oo dhan lagu daro.

Isticmaalka ammeter-ka (Ammeter)

Run mise been?

Akhriska (Reading) ammeter-ka (Ammeter) 1 waa ka weyn yahay kan ammeter-ka (Ammeter) 2.

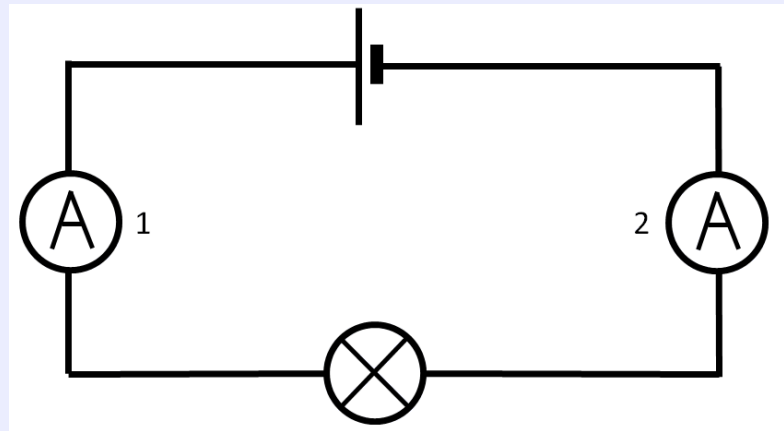
T Run

F Been ✓

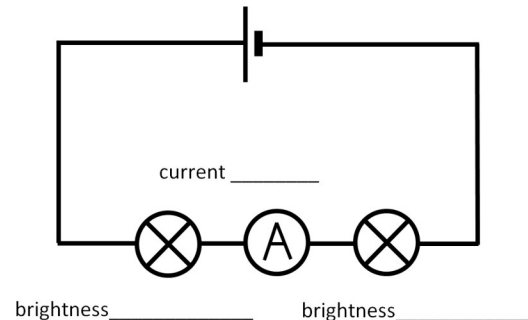
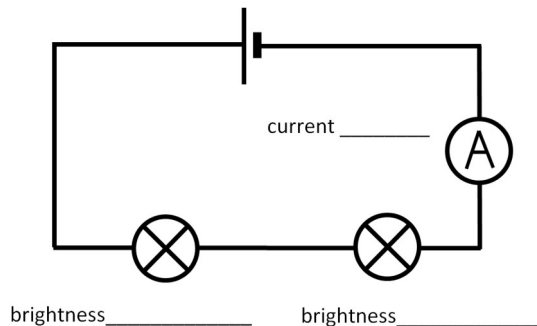
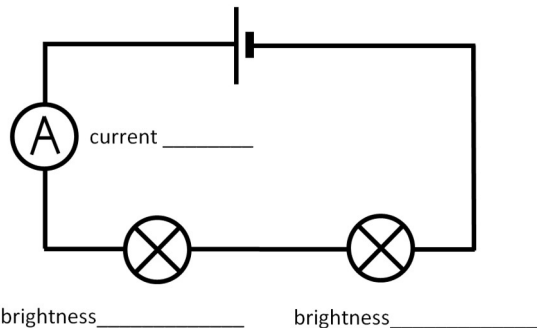
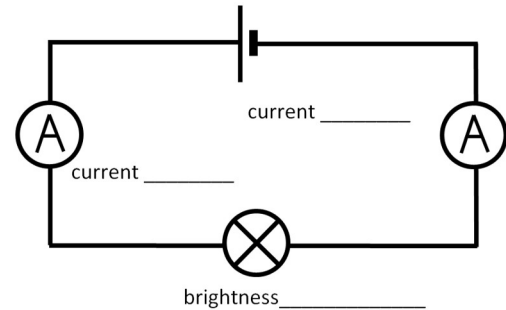
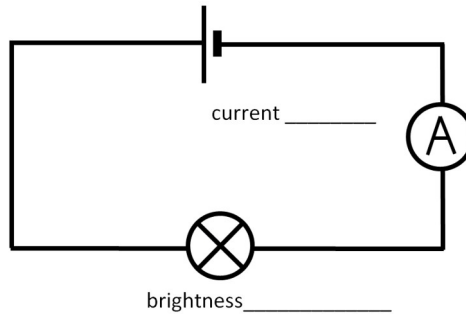
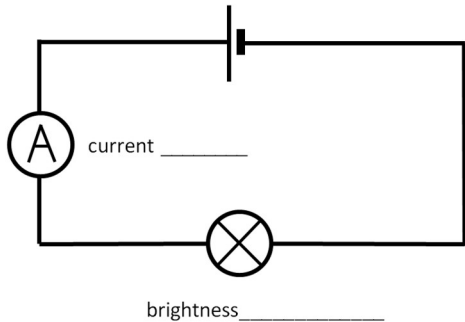
Sabab u sheeg jawaabtaada

a Hadda (Current) waa isku mid wareegga (Circuit) oo dhan. ✓

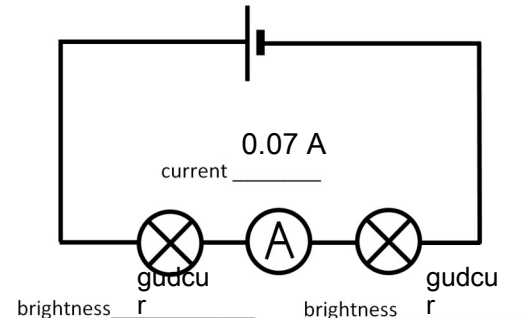
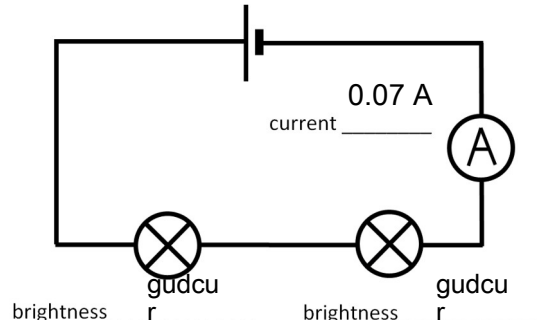
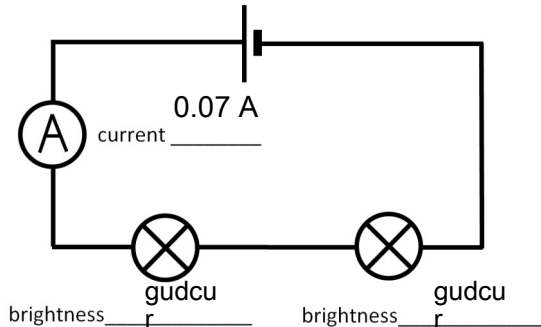
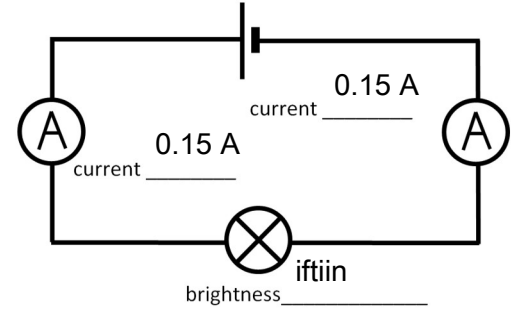
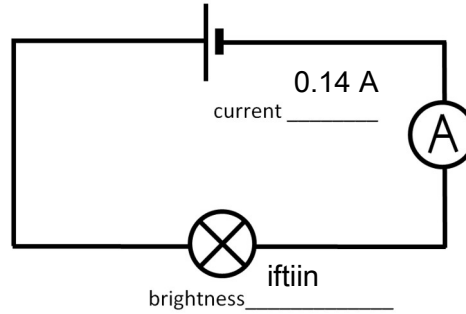
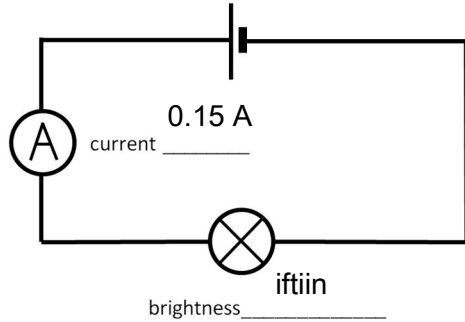
b Qaar ka mid ah hadda (Current) waxaa isticmaala laambadda (Lamp).



Dhis wareegyada (Circuits) soo socda, qor hadda (Current) la cabbiray oo sharax iftiinka laambadaha (Lamps) (tusaale: iftiin leh ama gudcur).



Dhis wareegyada soo socda, qor currents-ka la qiyaasay oo sharax iftiinka laambadaha (tusaale, iftiin ama gudcur).



Qiyaasida current-ka korontada



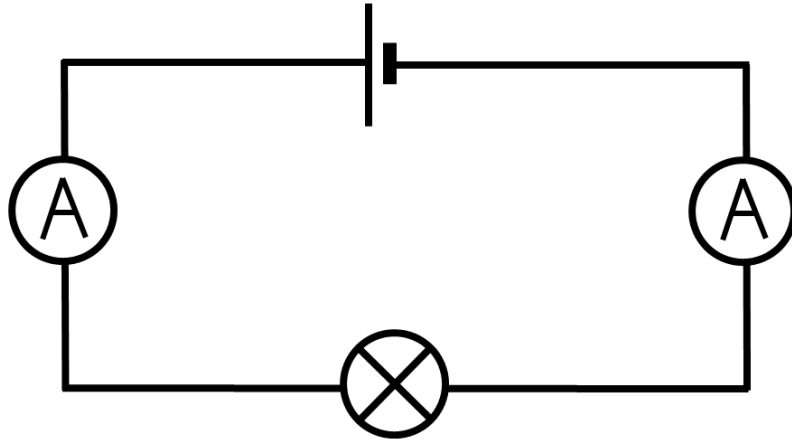
Isticmaal Ammeter-ka



Current-ka wareegyada leh ammeter

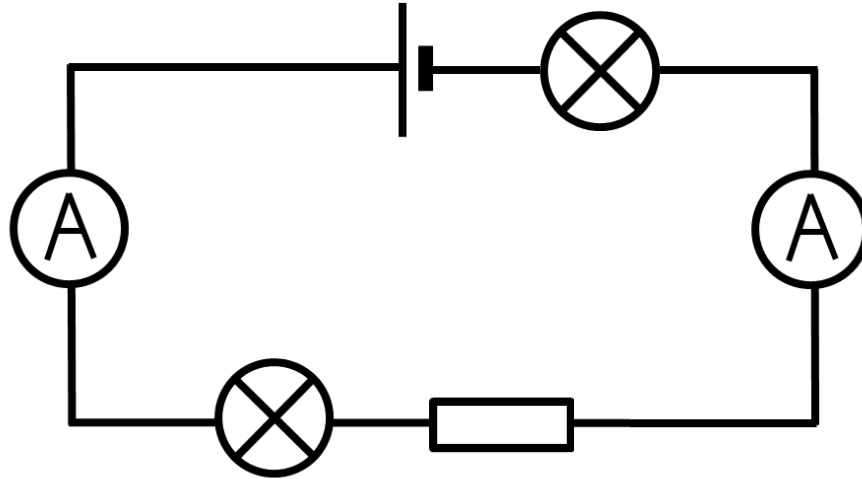
Current-ka wareegyada leh ammeter

Wareeg taxane ah, current-ka ammeter-ku qiyaaso waa isku mid haddii uu meel kasta yaallo.



Current-ka sidoo kale waa isku mid laambadda, cell-ka iyo fiilooyinka.

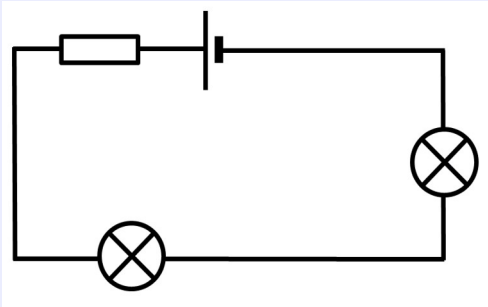
Ku darista laambad kale waxay yareysaa current-ka wareegga oo dhan.



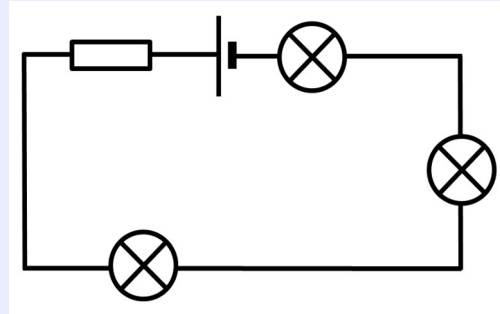
Ku darista resistor sidoo kale waxay yareysaa current-ka.

Current (Current) ee wareegyada (circuits) leh ammeter (ammeter)

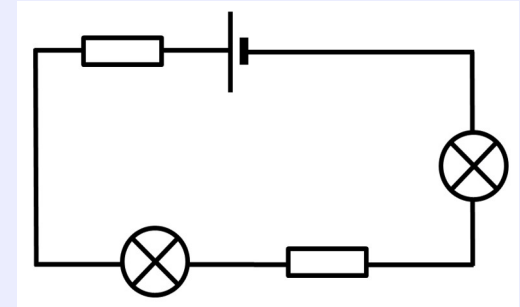
Kee ka mid ah wareegyadan ayaa leh current-ka ugu weyn?
Qaybuhu waa isku mid (identical).



a ✓



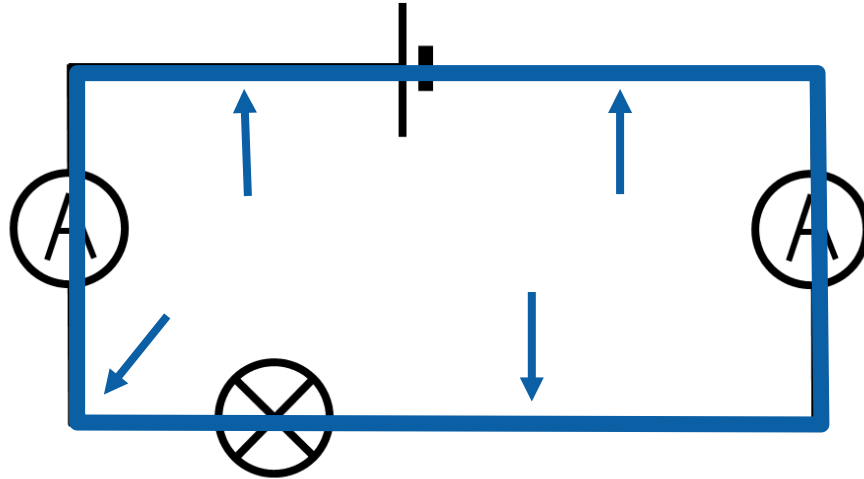
b



c

Current (Current) ee wareegyada (circuits) leh ammeter (ammeter)

Ku darista qayb (component) meel kasta oo wareeg taxane ah (series circuit), waxay beddeshaa current (current) guud ahaan wareegga (circuit).



Current (Current) ee wareegyada (circuits) leh ammeter (ammeter)



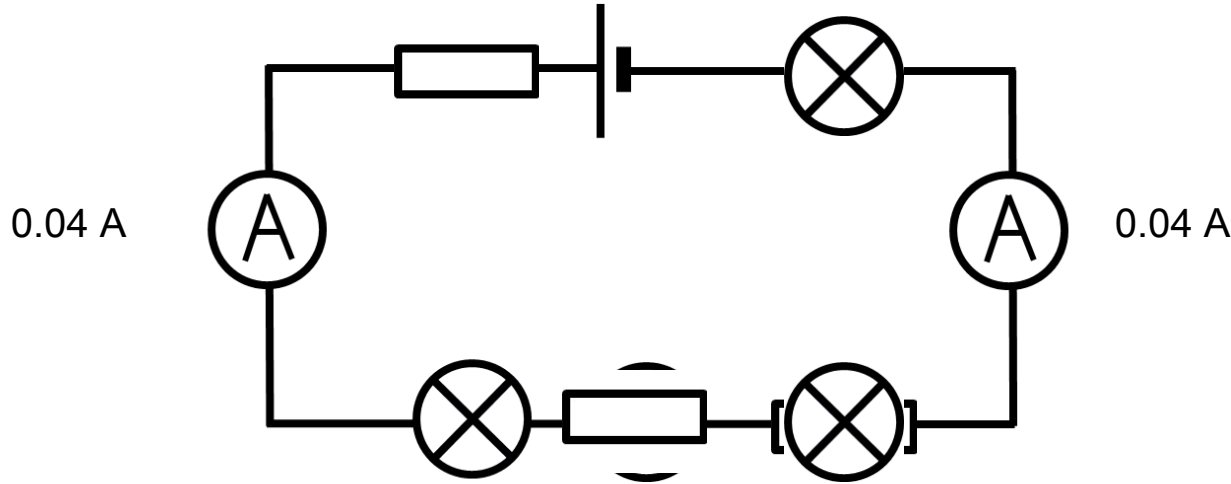
Maxaa dhacaya marka laambad (lamp) lagu daro wareeg taxane ah (series circuit)?

- a** Current (Current) ka hor laambadda (lamp) wuu yaraadaa.
- b** Current (Current) guud ahaan wareegga (circuit) wuu kordhaa.
- c** Current (Current) guud ahaan wareegga (circuit) wuu yaraadaa.
- d** Current (Current) ka dib laambadda (lamp) wuu yaraadaa.



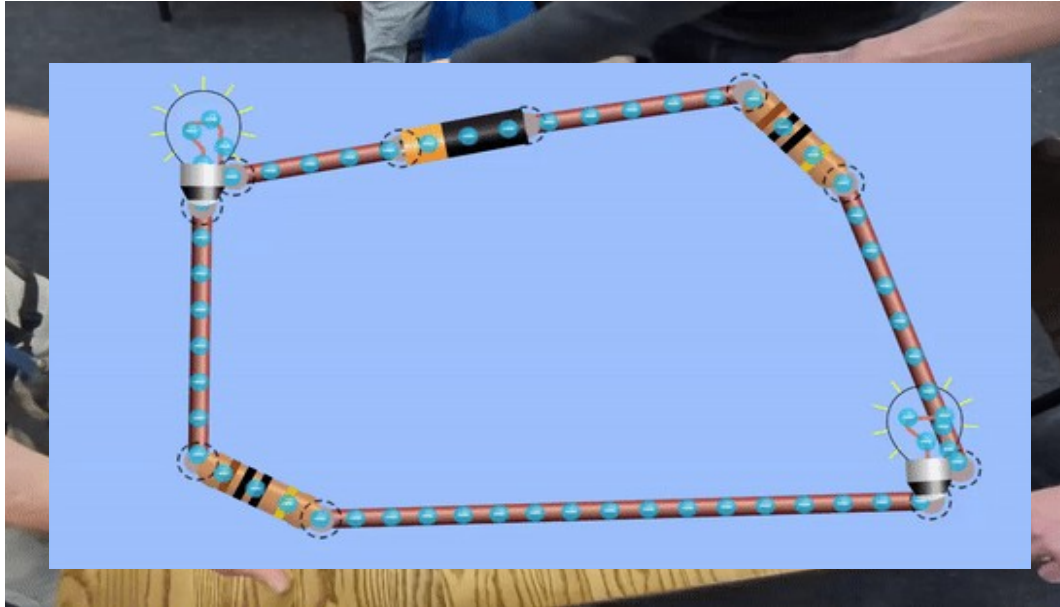
Current (Current) ee wareegyada (circuits) leh ammeter (ammeter)

Beddelidda boosaska labada laambad (lamp) iyo resistor-ka (resistor) kuma saamayso cabbirka current-ka (current).



Current (Current) ee wareegyada (circuits) leh ammeter (ammeter)

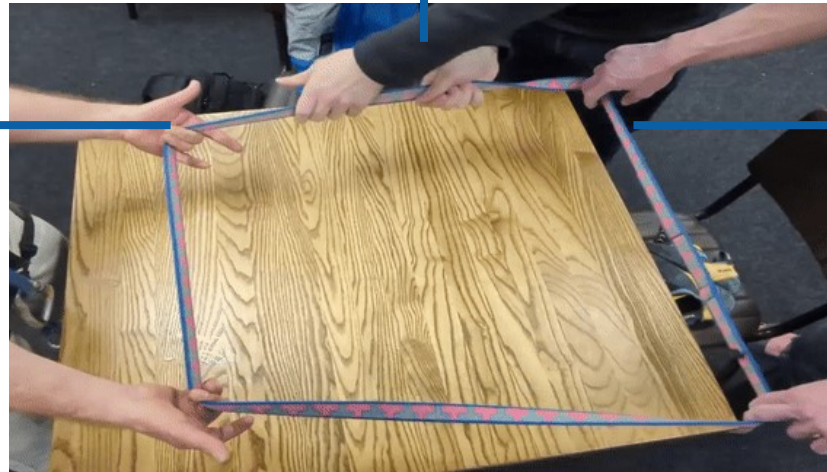
Arday qaar ayaa sameeyay qaab (model) wareeg taxane ah (series circuit).



Arday qaar ayaa sameeyay qaab (model) wareeg taxane ah (series circuit).

gacmaha soo jiidaya ayaa dhaqaajiya
cajaladda (tape) wareegga

afarta gacmood oo taagan ayaa
u taagan qaybaha (components)



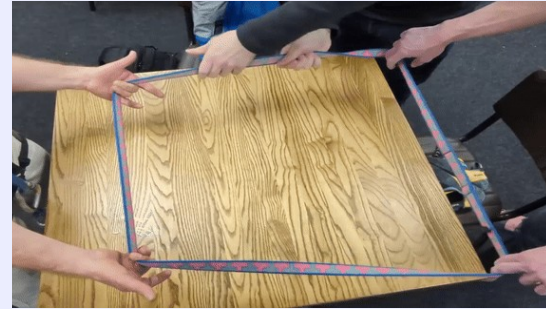
cajaladdu (tape) waxay u taagan
tahay current-ka (current) siliga
(wire)

Current-ka (Current) ee wareegyada (circuits) oo leh ammeter



Hubi

Isku xidh qaybaha qaabka cajaladda (tape model) kuwa wareegga (circuit).



gacmaha jiidaya

current-ka (current) ee siliga

gacmaha taagan

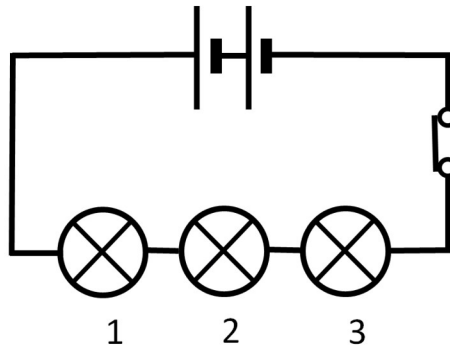
cell ama battery

tape

lambiyada (lamps) ama resistors

Axmed iyo Isra waxay saadaalinayaan sida wareeg (circuit) ay dhiseen u shaqeyn doono.

Lambiga 1 wuxuu noqon doonaa kan ugu ifaya, ka dibna 2, markaas 3.



Lambiyada 1 iyo 3 waxay noqon doonaan kuwa ifaya, halka lambiga 2 uu noqon doono mid daciif ah.



Sharax sababta aad ugu malaynayso in Axmed iyo Isra ay sameeyeen saadaashooda, ka dibna sharax halka saadaashoodu ay ku kala duwan yihiin natiijada dhabta ah iyo waxa jawaabta saxda ah tahay.

Sharax sababta aad ugu malaynayso in Axmed iyo Isra ay sameeyeen saadaashooda, ka dibna sharax halka saadaashoodu ay ku kala duwan yihiin natiijada dhabta ah iyo waxa jawaabta saxda ah tahay.

Axmed wuxuu u malaynayaa in current-ku (current) uu hoos u dhigi doono marka uu dhex maro lambi kasta, sidaas darteed lambiga koowaad wuxuu helaa kan ugu badan, halka kan ugu dambeeya uu helo kan ugu yar.

Isra waxay u malaynaysaa in lambiyada ugu dhow battery-ga ay helaan current-ka (current) ugu badan, sidaas darteed waxay noqon doonaan kuwa ka ifaya lambiga dhexda ku yaal, kaas oo ah kan ugu fog battery-ga.

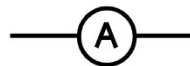
Labadooduba waa qalad sababtoo ah current-ku (current) waa isku mid inta uu wareegga (circuit) ku jiro, dhammaan lambiyada waxay helayaan current isku mid ah, taasoo ka dhigaysa inay si isku mid ah u ifaan.

Soo koobid Cabbirka current-ka (electric current)

Ammeter wuxuu cabbiraa current-ka (current) ee wareegga (circuit) waxaana la dhigaa si taxane ah (series).

Current-ka (Current) waxaa lagu cabbiraa unugyo loo yaqaan amps (A), oo ah soo gaabinta amperes.

Ammeters kuma saameeyaan current-ka (current) ay cabbiraan.



Wareegga taxanaha ah (series circuit), current-ku (current) waa isku mid inta oo dhan, iyo ku darista qayb meel kasta oo wareegga (circuit) ah waxay saameyn doontaa current-ka (current) meel kasta oo wareegga (circuit) ah.

Waxaan u isticmaali karnaa moodello si ay noo caawiyaan sharaxaadda sida wareegyada (circuits) u shaqeeyaan.