

REPUBURIKA Y'U RWANDA



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*IKIGO CY'IGIHUGU GISHINZWE
INTEGANYANYIGISHO*

INTEGANYANYIGISHO Y' IMIBARE MU MASHURI ABANZA (P1, P2, P3)

Kigali, Nyakanga 2005

I. IRIBURIRO

Imibare ni inyigisho itoza umunyeshuri gutekereza ku buryo buhwitse. Bityo igatuma umunyeshuri arushaho kumva neza inyigisho zindi. Ni igikoresho cyifashishwa mu nyigisho zimwe na zimwe zo mu mashuri abanza.

(Ubumenyi n’ Ikoranabuhanga Riciriritse, Ubumenyi bw’ Isi,...).

Integanyanyigisho y’imibare y’amashuri abanza igizwe n’ibi :

- Ibara
- Ingero
- Jewometiri
- Arijebure
- Ibishushanyo ndanga miterere n’isobanurwa ryabyo.

Iyi nteganyanyigisho izafasha umunyeshuri gukurikira imibare yo mu byiciro byisumbuye n’izindi nyigisho bifitanye isano ku buryo bunononsoye; ikamutegurira imibereho myiza mu buzima busanzwe nko gucunga umutungo, gukoresha ingero, gusoma no gusobanukirwa n’ibishushanyo ndangamiterere byoroheje.

Iyi nteganyanyigisho iteguwe ishingiyeye ku gitekerezo cyo kuvugurura no guhuza integanyanyisho z'Amashuri Abanza yo mu Rwanda n'ay'ibihugu duturanye kugira ngo inyigisho z' imibare zijyane n'ibyo abenegihugu bakeneye muri iki gihe, ikaba igenewe abanyeshuri bo mu cyiciro cya mbere n'ab'icya kabiri cy'amashuri abanza mu Rwanda.

II. IMBONEZANYIGISHO RUSANGE

Isano riba mu mashami y'imibare rizwiho ko ari ingirakamaro. Ni na yo mpamvu ku ngengabihe hagomba kwandikwaho IMIBARE aho kwandikwaho buri shami riyigize, nk'ibara, Ingero, Jewometiri, Arijebure n'Ibishushanyo ndangamiterere.

Iyo nyigisho yagira akamaro ari uko bakoze imyitozo, bakagira n'inshoza z'i banze. Muri buri somo, abanyeshuri bagomba gushishikarizwa kungurana ibitekerezo ku mahame y'imibare no kumenya neza amagambo ayikoreshwamo.

III. INTEGO RUSANGE KU MASHURI ABANZA

1. Gukoresha ubumenyi bw'ibanze n'ubumenyingingiro yahawe akora ibibazo by'imibare
2. Kwifashisha ibara ryihuta mu gukemura ibibazo byo mu buzima busanzwe
3. Gukoresha ubumenyi mu mibare kugira ngo azashobore gutera imbere mu myigire no gusobanukirwa mu bindi byigwa.

IV. INTEGRO RUSANGE ZO MU CYICIRO CYA MBERE

Umunyeshuri urangije icyiciro cya mbere cy'amashuri abanza azaba ashobora:

1. Gukemura utubazo dutandukanye ahura na two mu buzima bwa buri muni, yifashishije amategeko ane y'ibara ku mibare kuva kuri 0 kugeza ku 10 000
2. Gukoresha ubumenyi yahawe mu bijyanye n'ingero n'amashushongero mu gukemura ibibazo byoroheje byo mu buzima busanzwe
3. Kwifashisha ubumenyi yahawe mu mibare kugira ngo azabashe gukurikira neza inyigisho zo mu cyiciro cya kabiri cy'amashuri abanza

V. INTEGANYANYIGISHO

INTEGANYANYIGISHO Y'UMWAKA WA MBERE

INTEGO ZIHARIYE	IBYIGWA	IMBONEZAMASOMO
<i>Umunyeshuri urangije umwaka wa mbere agomba gushobora :</i> 1) Kubara, gusoma no kwandika imibare kuva kuri 0 kugeza kuri 99	1. <u>UMUTWE WA MBERE</u> <u>Ibara n'amategeko yarwo</u> - Imivugire, imisomere n'imyandikire by'imibare kuva kuri 0 kugeza ku 99. - Isesengura ry'imibare iri hasi ya 100 mo ibinyacumi n'ibinyabumwe.	- Gutegura imfashanyigisho zihagije zirimo utubuye, udushyimbo, intobo n'ibindi - Gufasha abana kwerekana imfashanyigisho ijyanye n'umubare ugiye kwigwa, uhereye kuri 1 kugera ku 9 - Kwerekana imisomere n'imyandikire, ya buri mubare - Kwigisha 0 : guha umwana udushyimbo 5 (cyangwa ibindi bintu), kutumwaka no kubaza icyo umwana asigaranye

2) Kugereranya imibare 2 iri muni ya 100 akoresheje $<$, $>$, $=$	- Igereranya ry'imibare ibiri iri hasi ya 100 - Itonde ry'imibare itarenze 5 iri hagati ya 0 na 99 uva ku muto ugana ku munini cyangwa uva ku munini ujya ku muto	- Ku binyacumi, gukora uturundo tw'ibintu icumi icumi, kwerekana ko buri karundo ari ikinyacumi - Kwigisha 10: gushushanya hasi utuziga 2, gushyira mu kaziga kamwe ibintu 10 akandi karimo ubusa, ikinyacumi kigahagarirwa na 1, ubusa bugahagarirwa na 0 - Kwerekana uko icumi ryandikwa - Kwigisha 11 kugeza kuri 99: kurunda ibintu icumi icumi mu matsinda nyuma bakongeraho ikinyabumwe bagezeho - Kwerekana uko iyo mibare yandikwa - Kugereranya imibare kuva kuri 0 kugera kuri 99: kugabanya abanyeshuri imfashanyigisho mu buryo bunyuranye (imibare irutana, ingana), kubarira hamwe bakoresheje ibyo umwe afite bakabigereranya - Kubabwira no kubereka uko ibimenyetso by'igereranya byandikwa n'uko bikoreshewa
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3) Guteranya no gukuramo imibare kuva kuri 0 kugeza kuri 99	-Iteranya ritabitsa ry'imibare igiteranyo kitarenga 99 -Ikuramo ridatira ry'imibare ibiri iri hagati ya 0 na 99 -Isesengura ry'imibare iri hagati ya 0 na 10 mo ibiteranywa.	- Kwifashisha uturundo tw'ibintu binyuranye mu myigishirize yo guteranya no gukuramo - Kwifashisha utuziga dushushanyijemo ibintu bihuje n'imibare dushaka guteranya cyangwa gukuramo - Kwerekana imyandikire y'ibimenyetso + , - na =
4) Gukuba na 2 kuva kuri 1 kugeza ku 10 5) Kugereranya imibare irimo iteranya ,ikuba n'ikuramo akoresheje ibimenyetso>, < , na =	- Mara ya 2, igisubizo kitarenga 20 - Igereranya ry'imibare hakoreshejwe ibimenyetso <, > na = Ingero : $4 - 3 < 8 - 6$ $7 \times 2 > 5 \times 2$ $14 + 5 = 16 + 3$	- Kwifashisha imfashanyigisho bagenda bakora uturundo tungana n'umubare w'inshuro bagezeho kugera ku 10 - Gukoresha imbonerahamwe irimo ibyo bamaze gukora - Kwerekana ikimenyetso cyo gukuba (X) - Gukora imyitozo inyuranya igereranya imibare ikubye, iteranyije cyangwa ikuyemo

6) Gukora uduhurizo dufitanye isano n'ibyo abona buri munsu kandi tuzamo amategeko y'ibara. <i>Umunyeshuri urangije umwaka wa mbere agomba gushobora :</i> 1) Kuvuga no kwerekana umwanya w'ibintu cyangwa w'abantu akurikije aho biherereye. 2) - Kuvangura no gushushanya imirongo akurikiza uko iteye - Kwerekana utudomo akurikije aho duherereye	- Uduhurizo ku mategeko y'ibara <u>UMUTWE WA 2 :</u> <u>IBYEREKEZO</u> <u>N'AMASHUSHONGERO</u> - Hejuru, hasi; imbere, inyuma; hepfo, haruguru; iburyo, ibumoso; hira, hino. - Imirongo : ifunze, igororotse, ihese n'ivunaguye - Utudomo turi : imbere, inyuma no ku murongo ufunze	- Gufasha abanyeshuri gukora uduhurizo duto ku mategeko y'ibara tuboneka mu buzima busanzwe - Kubamenyereza kwerekana inzira y'igisubizo - Kwifashisha imfashanyigisho ziboneka mu bintu bibakikije mu ishuri cyangwa hanze - Kubaza abana aho ibintu biherereye (umwanya wabyo) - Kwifashisha utugozi n'uduti bakigana imirongo mwarimu yashushanyije - Kubishushanya mu makayi yabo
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3) Gushushanya ikinyatuzu cy'inkingi 4 n'imbariro 4.	- Inkingi, imbariro, ikinyatuzu,	- Kujoyana abana hanze bagashyamba udutwaga bagatambikaho utundi dutwaga - Gusobanura ko uduhagaze ari inkingi, udutambitse ari imbariro - Gushushanya mu makaya yabo
<i>Umunyeshuri urangije umwaka wa mbere agomba gushobora :</i> 1) - Kugereranya indeshyoy'abantu, y'ibintu cyangwa y'ahantu - Gupima uburebure bwabyo - Gukora uduhurizodufitanye isano n'ingeroz'uburebure	<u>UMUTWE WA 3 : INGERO</u> - Igereranya ry'indeshyokoresheje ijisho (abantu, ibintu, ahantu) - Ipima : - intambwe y'ikiganza - intambwe y'amaguru - udukoni - m ku burebure butarenze m 10. - Uduhurizo ku burebure muri m.	- Gufata ibintu bifite uburebure butandukanye ukabishyira imbere y'abana bakabigeranya - Kujoya hanze bagapimisha uburyo butandukanye ibintu bihari - Kwifashisha Iratí ya metero bagapima umugozi, inkuta cyangwa ubundi burebure butarenze metero 10 - Kwerekana uko metero yandikwa - Gukora imyitozo y'iteranya n'ikuramo baterenza m 10 - Gutoza abana gukora uduhurizo dutwaga turebana n'ubuzima bwaburi muni

2) Gutandukanya iminsi y'icyumweru	- Icyumweru n'iminsi yacyo. - Umunsi wa none, uw'ejo n'ejobundi hashize n'ahazaza	- Kwifashisha utubazo mu gutandukanya iminsi ukurikije ibikorwa by'ingenzi biba mu karere (iminsi y'amasoko, iminsi ya gacaca, iminsi yo gusenga, n'ibindi n'ibindi) - Guhera ku gakino, aho abana bitwa amazina y'iminsi y'icyumweru, wahamagara umunsi, umwana ufite iryo zina ukiyerekana
3) - Gutandukanya amafaranga y'u Rwanda kuva ku giceri cy'ifaranga - kugeza ku noti y'amafaranga 100. - Kuvunja amafaranga atarenze 100.	- Amafaranga y'u Rwanda kuva ku ifaranga rimwe kugeza ku mafaranga ijana. - Ivunja ry'amafaranga atarenze 100	- Kwereka abana amafaranga arimo ibiceri, inoti y'ijana - Gutandukanya ibiceri bakurikije amabara, ubunini bwabyo n'imibare yanditseho - Gutanga uduhurizo duto two kuvunja

IGIHEMBWE CYA MBERE

ICYUMWERU	IBARA	INGERO	IBYEREKEZO N'AMASHUSHONGERO
1	Ibara kuva kuri 1 kugera kuri 5	_____	- Amerekezo : hasi; hejuru; iburyo; ibumoso; inhuma
2	Ibara kuva kuri 1 kugera kuri 5	_____	- Guca imirongo ihagaze n' itambitse
3	Kubara, gusoma no kwandika 1 na 2	_____	- Guca imirongo ifunguye n' ifunze
4	Kubara, gusoma no kwandika imibare kuva kuri 1 kugera kuri 4.	_____	- Guca imirongo ivunaguye
5	Ibara kuva kuri 5 kugera 10.	_____	- Guca imirongo ireshya
6.	Kubara, gusoma no kwandika imibare : 5, 6 na 7.	- Igereranya ry'uburebure bw'ibintu n'ubw'abantu	_____

7.	Kugereranya imibare bakoresha ibimenyetso : < , > na =	_____	_____
8.	Kubara, gusoma no kwandika imibare : 8, 9 na 0.	- Ipima ry'uburebure bakoresha intambwe, udukoni, utwambi, n'ibindi.	_____
9	Guteranya na 1 na 2, 3, 4 na 5 igiteranyo kitarenga 9.	- Ipima ry'uburebure bakoresha intambwe, udukoni, n'ibindi.	_____
10	Isubiramo	Isubiramo	Isubiramo
11	Ikizami	Ikizamini	Ikizamini

IGIHEMBWE CYA KABIRI

ICYUMWERU	IBARA	INGERO	IBYEREKEZO N'AMASHUSHONGORO
1.	Isubiramo	Isubiramo	Isubiramo
2.	Kubara, gusoma no kwandika umubare 10.	Ingero z'uburebure : metero (m)	_____
3.	Gukuramo 1 na 4	_____	Guca imirongo inyuranye
4.	Gukuramo imibare, iri muni ya 10, umuto utarenze 5.	Gupima uburebure butarenze m 10.	Kwerekana utudomo turi imbere, inyuma cyangwa ku murongo ufunze.
5.	Gukuramo imibare iri muni ya 10 umuto utarenze 9.	Guteranya ingero z'uburebure (m), igiteranyo kitarenze m 10.	_____
6.	Imyitoto yo guteranya no gukuramo igiteranyo kitarenga 10.	Gukuramo ingero z'uburebure (m), batarenza m 10.	_____

7.	Uduhurizo ku guteranya no gukuramo igisubizo kitarenga 10.	Icyumweru n'iminsi yacyo	Guca imirongo ireshya
8.	Kubara, gusoma no kwandika imibare kuva kuri 11 kugera kuri 20.	_____	_____
9.	Kugereranya imibare bakoresheje < ; > , =	_____	_____
10.	Imyitoto yo guteranya, igiteranyo kitarenga 20, no gukuramo hakoreshejwe imibare iri hasi ya 20	_____	_____
11.	idem	- Uduhurizo ku ngero z'uburebure - igisubizo kitarenga m 20.	_____
12	Isubiramo	Isubiramo	Isubiramo
13	Ikizamini	Ikizamini	Ikizamini

IGIHEMBWE CYA GATATU

ICYUMWERU	IBARA	INGERO	IBYEREKEZO N'AMASHUSHONGERO
1.	Isubiramo	Isubiramo	Isubiramo
2.	Kubara, gusoma no kwandika Imibare kuva ku 10 kugera kuri 30.	Ingero z' uburebure : m Gupima uburebure bitarenze m 30.	Guca imirongo igororotse.
3.	Gusesengura imibare mo ibinyabumwe n'ibinyacumi kuva ku 10 kugera kuri 30.	_____	Imyitoto ku byerekezo : hasi, hejuru, iburyo, ibumoso, imbere n'inyuma
4.	Kubara, gusoma, kwandika, no kugereranya imibare kuva kuri 30 kugera kuri 60.	Amafaranga y'u Rwanda kuva ku ifaranga rimwe kugera ku mafaranga 50.	_____

5.	Gusesengura imibare kuva kuri 30 kugera kuri 60 mo ibinyabumwe n'ibinyacumi	.	
6.	Mara ya 2 - igisubizo kitarenze 20.		Inkingi, imbariro n'ikinyatuzu
7.	Kubara, gusoma, kwandika no kugereranya imibare kuva kuri 60 kugera kuri 99.	Amafaranga y'u Rwanda kuva F1 kugera F 100. Ivunja ry'amafaranga atarenze 100	
8.	-Imyitozo yo : guteranya no gukuramo igisubizo kitarenga 50. -Imyitozo yo gukuba na 2 igisubizo kitarenga 20	Imyitozo yo guteranya no gukuramo ingero z'uburebure igisubizo kitarenga m 50.	

9.	Gusesengura umubare uri muni ya 100 mo Ibinyabumwe n'ibinyacumi.	Ingero z'uburebure : gupima ahantu hatarenze m 99.	_____
10	Uduhurizo ku guteranya, gukuramo igisubizo kitarenga 99. Uduhurizo ku gukuba na 2 igisubizo kitarenga 20	Imyitozo yo guteranya no gukuramo mu ngero z'uburebure, igisubizo kitarenga m 99.	_____
11	Isubiramo	Isubiramo	Isubiramo
12	Ikizamini	Ikizamini	Ikizamini

INTEGANYANYIGISHO Y' UMWAKA WA KABIRI

INTEGO ZIHARIYE	IBYIGWA	IMBONEZAMASOMO
<i>Umunyeshuri urangije umwaka wa kabiri agomba gushobora :</i> 1) Kubara, gusoma no kwandika imibare kuva kuri 0 kugeza kuri 999.	<u>UMUTWE WA MBERE :</u> <u>Ibara n'amategeko yaryo</u> - Imivugire, imisomere n'imyandikire by'imibare kuva kuri 0 kugeza kuri 999. - Isesengura ry'imibare y'imibarwa 3 mo ibinyajana, ibinyacumi n'ibinyabumwe.	- Kwibutsa imivugire n'imyandikire kuva kuri 0 kugeza kuri 99 - Kwigisha 100: gushushanya hasi utuziga 10, gushyira muri buri kaziga ibintu 10 - Gushushanya ikiziga kinini kigashirwamo ibyari muri twa tuziga 10 - Gusobanurira abana ko icyo kiziga kigizwe n'ibinyacumi cumi ari ikinyejana kimwe - Kwerekana uko 100 ryandikwa hakoreshejwe ikibarisho kirimo ibinyacumi 10 n'akaziga karimo ubusa, bityo 10 rikongerwaho 0 bikaba 100 - Kwigisha 101 kugeza kuri 109: Gukoresha

2) Kugereranya imibare iri muni ya 1000, akoresha ibimenyetso $>$, $<$ na $=$ 3) Guteranya imibare igiteranyo kitarenga 999	- Igereranya ry'imibare, ikoresheya ry'ibimenyetso $>$, $<$ na $=$ - Iteranya ritabitsa igiteranyo kitarenga 999 - Iteranya rihagaritse ribitsa inshuro imwe igiteranyo kitarenga 999 - Iteranya rikoresheya udukubo	uburyo bwavuzwe haruguru, ikinyabumwe kigezweho kigashyirwa mukaziga karimo ubusa - Kwerekana uko iyo mibare yandikwa - Kwigisha 110 kugera 999: kwerekana ibinyajana na kare nini, ibinyacumi kare nto n'ibinyabumwe ugakoresheya udukoni Izo kare zigomba kuba zingana n'umubare w'ibinyajana cyangwa ibinyacumi biriho byigwa, n'udukoni tukangana n'ibinyabumwe Kwifashisha imbonerahamwe y'ibinyajana, ibinyacumi n'ibinyabumwe mu kugereranya imibare - Kwerekana uko bateranya n'uko bakuramo imibare bahagaritse, ibinyabumwe muni y'ibinyabumwe ibinyacumi muni y'ibinyacumi, ibinyajana muni y'ibinyajana hakoreshejwe imbonerahamwe y'ibara - kwerekana uko bateranya babitsa n'uko bakuramo batira
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4) Gukuramo imibare iri muni ya 1000	- Ikuramo ridatira - Ikuramo rihagaritse ritira inshuro imwe - Ikuramo rikoresha udukubo	- Gukangurira abana guteranya no gukuramo bahereye ku binyabumwe - Gukoresha muri mara uburyo bwakoreshejwe mu mwaka wa mbere - Kwifashisha mara agakuba mu buryo buhagaritse - Gukoresha imfashanyigisho (amacunga, uduti, n'ibindi) - Gusobanurira abana ikizima icyo ari cyo
5) Gukuba umubare utarengeje imibarwa ibiri na 2 kugera kuri 6	- Mara ya 2 kugeza ku ya 6 - Ikuba ritabitsa - Ikuba ribitsa	
6) Kugabanya umubare utarengeje imibarwa ibiri na 2, 3, 4	- Igabanya ridasagura	
- Kugabanya ikintu mo ibice 2 cyangwa bine bingana no kwerekanisha ibyo bice iyi migabane : $\frac{1}{2}$, $\frac{1}{4}$.	- Imigabane : $\frac{1}{2}$, $\frac{1}{4}$.	
7) Gushaka ibisubizo by'uduhurizo duto akoresha ibimenyetso 4 by'ibanze by'ibara.	- Amahurizo ku mategeko n'ibimenyetso by'ibara.	- Gutanga amahurizo yoroshye yo mubuzima busanzwe - Gutoza abana kwerekana inzira y'igisubizo

<i>Umunyeshuri urangije umwaka wa 2 agomba gushobora :</i> 1) - Gupima uburebure muri m, ibitembabuzi muri l n'uburemere muri kg. - Gutanga amasano ari hagati ya metero, desimetero na santimetero (m, dm, cm) uva ku kinini ujya ku gito. - Gukora amahurizo yoroshye arimo m, dm, cm; l na kg.	- <u>UMUTWE WA 2 : ingero</u> - Ingero z'uburebure muri m, iz'ibitembabuzi muri l n'iz'uburemere muri kg. - Isano hagati ya m, dm, cm. - Amahurizo ku ngero z'uburebure, z'ibitembabuzi n'iz'uburemere.	- Gukoresha imfashanyigisho zabugenewe bapima uburebure , ibitembabuzi n' uburemere bw'ibintu bitandukanye - Gutangira amasomo y'ingero hanze abanyeshuri bapima, bagereranya nyuma bagera mu ishuri bagatanga umwanzuro w'ibyabo babonye hanze, bagakora n'imyitozo
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2) - Gutandukanya amafaranga y'amanyarwanda no kuyavunja.	- Amafaranga y'amanyarwanda n'ivunja ryayo kuva ku giceri cya F1 kugeza ku noti ya F 1000.	- Gukoresha uburyo bwakoreshejwe mu wa mbere
3) - Kuvuga umubare w'iminsi, w'ibyumweru, w'amezi biri mu mwaka n'uko birutanwa. - Kuvuga igihe arebera ku isaha :	- Iminsi y'icyumweru - Ibyumweru by'ukwezi - Iminsi y'ukwezi, iminsi y'umwaka, ibyumweru by'umwaka n'amezi y'umwaka - Igihe : - Urushinge rwerekana amasaha n'urushinge rwerekana iminota - Isaha ishyitse, isaha irengaho cyangwa iburaho igice.	Kwifashisha indangaminsi

<i>Umunyeshuri urangije umwaka wa kabiri agomba gushobora :</i> 1) - Kuvangura no guca imirongo - Kuvangura utudomo akurikiza aho duherereye 2) - Kuranga ibishushanyo biri mu kinyatuzu akoresheje inyuguti cyangwa imibare	<u>UMUTWE WA 3 :</u> <u>AMASHUSHONGERO</u> <u>N'IBYEREKEZO</u> - Imirongo : igororotse, ihese, ivunaguye, ifunguye, ifunze, inyuranamo, itanyuranamo n'iyinyuramo. - Utudomo turi: imbere, inyuma no ku murongo ufunze. - Ikinyatuzu kitarengeje imbariro cumi n'inkingi cumi. - Iranga ry'amapfundo y'ikinyatuzu hakoreshejwe imibare.	- Gukoresha uburyo bwakoreshejwe mu wa mbere - Gukoresha uburyo bwakoreshejwe mu wa mbere - Kwita inkingi imibare n' imbariro inyuguti - Kuranga akadomo kari ku ihuriro ry'urubariro n'inkingi
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3) - Kuvangura kare, urukiramende, mpandeshatu mu bindi binyampande. - Gushushanya : • Kare n'urukiramende yifashishije ikinyatuzu (ku rubaho, mu ikaye,...) • Mpandeshatu yifashishije kare, urukiramende cyangwa utudomo 3. • Gupima impande no gushaka umuzenguruko : ○ Kare ○ Urukiramende ○ Impandeshatu	- Ibiranga : - Kare - Urukiramende - Mpandeshatu - Imyitozo yo gushushanya - Umuzenguruko wa : - Kare - Urukiramende - Mpandeshatu	- Kwifashisha ibintu n'amashusho byinshi bimeze nka buri kinyampande - Gutoza abana gushushanya bakoresha uducamirongo - Gufasha abana gupima impande no gushaka umuzenguruko w'ibintu binyuranye bifite ishusho rya kare, urukiramende na mpandeshatu
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UMWAKA WA 2 : IGIHEMBWE CYA MBERE

<i>ICYUMWERU</i>	<i>IBARA</i>	<i>INGERO</i>	<i>AMASHUSHONGERO</i>
1	Iyibutsa	Iyibutsa	Iyibutsa
2	Kubara, gusoma, kwandika, gusesengura no kugereranya imibare kuva kuri 0 kugeza kuri 20	gupima na m utarenza m 200	imirongo ihetse
3	Imyitozo yo guteranya no gukuramo imibare batambitse, bahagaritse kandi badatira	iminsi y'icyumweru	imirongo itanyuranamo n'inyuranamo
4	Mara ya 2 n'ya 3 Igiteranyo n'ikinyuranyo na 10	ingero z'uburebure m na dam	imirongo ifunguye n'ifunze
5	Igereranya ry'imibare bakoresha $>$, $<$ na $=$	isano hagati ya m, dm na cm	imirongo ivunaguye
6	Iteranya ritabitsa, igiteranyo kitarenga 999 Iteranya ribitsa inshuro 1 igiteranyo kitarenga 999	ihinduranya ry'ingero z'uburebure kuva kuri m--cm	-
7	Mara ya 4 n'ya 5 Imyitozo y'ikuba, iteranya batabitsa	-	utudomo tw'inyuma, imbere cyangwa ku murongo ufunze

8	Ikuramo ridatira bahita batanga ikinyuranyo	Ingero z'itwara : litiro	-
9	Mara ya 6 Mbare bateranya cyangwa bakuramo	Imyitozo yo guteranya no gukuramo ingero z'uburebure n'izitwara igisubizo kitarenga 200	-
10	Isubiramo	Isubiramo	Isubiramo
11	Ikizamini	Ikizamini	Ikizamini

UMWAKA WA 2 : IGIHEMBWE CYA KABIRI

<i>ICYUMWERU</i>	<i>IBARA</i>	<i>INGERO</i>	<i>AMASHUSHONGERO</i>
1	Iyibutsa	Iyibutsa	Iyibutsa
2	Kugabanya ibikuba n'ibiteranyo by'imibare	-	-
3	Kubara , gusoma no kwandika imibare kuva ku 100 kugeza kuri 500	ingero z'uburemere “kg”	-
4	Gusesengura no kugereranya imibare kuva ku 100 kugeza kuri 500	-	imirongo igorortse
5	Gusesengura umubare w' imibarwa 3 utarenga 500 mo ibinyabumwe, ibinyacumi n'ibinyajana	ingero z'uburebure kuva kuri m kugera kuri cm	-
6	Imyitozo yo gukuba, guteranya no gukuramo babitsa badatira	ihinduranya ry'ingero z'uburebure kuva kuri m, dm, cm	Inkingi, imbariro n'ikinyatuzu
7	- mbare yo gukuba - gukuramo batira	Amafaranga y'u Rwanda kugera kuri F500	ikinyatuzu kitarengeje inkingi 10 n'imbariro 10

8	Gukuba babitsa cyangwa batabitsa umubare w'imibarwa 3 n'imibare y'umubarwa 1 igisubizo kitarenga 500.	Imyitozo yo guteranya no gukuramo ingero z'uburemere n'iz'uburebure	-
9	Kugabanya na 2 na 3	Ivunja ry'amafaranga : inoti ya 500	Kuranga no gushushanya kare
10	Igabanya ridasagura	Uduhurizo turimo ingero z'uburebure, uburemere n'itwara bakoresha amategeko y'ibara	-
11	Uduhurizo ku mategeko y'ibara	-	-
12	Isubiramo	Isubiramo	Isubiramo
13	Ikizamini	Ikizamini	Ikizamini

UMWAKA WA 2 : IGIHEMBWE CYA GATATU

ICYUMWERU	IBARA	INGERO	AMASHUSHONGERO
1	Iyibutsa	Iyibutsa	Iyibutsa
2	Kubara, gusoma, kwandika imibare kuva kuri 500 kugeza kuri 999.	iminsi y'icumweru ibyumweru by'ukwezi	ibiranga urukiramende
3	Gusesengura no kugereranya imibare kuri 500 kugeza kuri 999.	amafarang y'u Rwanda kugeza ku 1000	-
4	Guhita utanga igikubo cy'imibarwa 3 na 10	iminsi y'ukwezi ingero z'uburebure kuva kuri m kugera kuri cm	ibiranga mpadeshatu
5	Kugabanya udasagura umibare utarengeje imibarwa 2, ikigabanyo kigizwe n'umubarwa 1	iminsi y'umwaka ihinduranya ry'ingero z'uburebure	umuzenguruko wa kare
6	Imyitozo yo guteranya babitsa no gukuramo batira	ibyumweru by'umwaka, gukoresha amategeko y'ibara mu ngero	umuzenguruko w'urukiramende

7	Gukuba babitsa	ibyumweru by'umwaka, gukoresha amategeko y'ibara mu ngero	umuzenguruko w'urukiramende
8	Mbare yo gukuba no kugabanya	Isaha ishyitse	umuzenguruko wa mpandeshatu
9	Imigabane 1/2 na 1/4	isaha irengaho cyangwa iburaho igice	imyitoto kuri kare, urukiramende na mpandeshatu
10	Uduhurizo ku mategeko y'ibara, igisubizo kitarenze 999	Ivunja ry'amafarange y'u Rwanda kugera ku noti ya 1000	-
11	Isubiramo	Isubiramo	Isubiramo
12	Ikizamini	Ikizamini	Ikizamini

INTEGANYANYIGISHO Y'UMWAKA WA GATATU

INTEGO ZIHARIYE	IBYIGWA	IMBONEZAMASOMO
<i>Umunyeshuri urangije umwaka wa 3 agomba gushobora :</i> - Kubara gusoma no kwandika imibare kuva kuri 0 kugeza ku 9999 - Kugereranya imibare y'imibarwa itarenze 4.	<u>UMUTWE WA MBERE :</u> <u>ibara n'amategeko yaryo</u> <i>A. <u>IMIBARE ISHYITSE</u></i> - Ibara, imisomere, imyandikire by'imibare igeza ku mibarwa 4. - Isesengura ry'imibare igeza ku mibarwa 4 mo ibinyagihumbi, ibinyajana, ibinyacumi n'ibinyabumwe. - Igereranya ry'imibare hakoreshejwe ibimenyetso $>$, $<$ na $=$ - Itonde ry'imibare itarengeje imibarwa ine uhayeze ku muto ujya ku munini cyangwa uva ku munini ujya ku muto	- Kwibutsa imivugire n'imyandikire kuva kuri 0 kugeza kuri 999 - Kwigisha 1000: kwifashisha imbonerahamwe y'ibara - Kwigisha 1001 kugeza kuri 9999 hifashijwe imbonerahamwe y'ibara - Kwifashisha imbonerahamwe y'ibinyagihumbi, ibinyajana, ibinyacumi n'ibinyabumwe mu kugereranya imibare no kuyitondeka

INTEGO ZIHARIYE	IBYIGWA	IMBONEZAMASOMO
3. Guteranya imibare igiteranyo kitarenze 9 999 4. Gukoresha ibiranga iteranya 5. Gushaka ikinyuranyo cy'imibare ibiri itarenze 9 999. 6. Gukuba umubare w'imibara 3 n'umubare w'imibara itarenze 2, igisubizo kitarenze 9 999.	- Igiteranyo cy'umubare na 10, 100, 1 000, igisubizo kitarenze 9 999 - Iteranya ritabitsa - Iteranya ribitsa - Ihinduranya ritanyuranya mu iteranya - Ikunganya ridahindura igiteranyo. - Ikuramo ridatira - Ikuramo ritira. - Mara ya 7, 8 n'ya 9 - Igikubo cy'umubare w'imibara 3 n'umubare w'imibara itarenze 2. - Umugabo wa 9.	- Kwerekana uko bateranya n'uko bakuramo imibare bahagaritse, ibinyabumwe muni y'ibinyabumwe ibinyacumi muni y'ibinyacumi, ibinyajana muni y'ibinyajana n'ibinyagihumbi muni y'ibinyagihumbi hakoreshejwe imbonerahamwe y'ibara - kwerekana uko bateranya babitsa n'uko bakuramo batira - Gukoresha muri mara uburyo bwakoreshejwe mu mwaka wa mbere - Kwifashisha mara agakuba mu buryo buhagaritse - Kwerekana uko batanga umugabo wa 9 bahereye ku ngero zo mu ikuba rihagaritse

7. Gukoresha ibiranga ikuba	- Ihinduranya ritanyuranya mu ikuba - Ikunganya ridahindura igikubo.	- Kwifashisha ingero mu kwerekana ihinduranya n'ikunganya
8. Gukuba umubare na 10, 100, 1000, igikubo kitarenze 9 999.	- Igikubo cy'imibare na 10, 100, 1000	- Gufasha abana gutahura amategeko y'ikuba
9. Kugabanya umubare w'imibarwa 3 n'umubare w'umubarwa umwe.	- Igabanya ridasagura - Igabanya risagura ry'imibare y'imibarwa 3 n'umubare w'umubarwa umwe	- Kwifashisha ingero mu igabanya ridasagura n'irisagura
10. Kugabanya na 10, 100, 1000 imibare itarenze 9 999 iherwa n'amazeru atarenze 3.	- Igabanya na 10, 100, 1000 ry'imibare itarenze 9 999 iherwa n'amazeru atarenze 3.	- Gufasha abana gutahura amategeko y'igabanya
11. Gukora imyitoto ku mategeko y'ibara.	- Imyitoto ku mategeko y'ibara.	- Gutanga imyitoto inyuranye
12. Gukora amahurizo afitanye isano n'amategeko y'ibara.	- Amahurizo ku mategeko y'ibara.	- Gutanga amahurizo yo mu buzima busanzwe

<i>Umunyeshuri urangije umwaka wa 3 agomba gushobora :</i>	<u>B. IMIGABANE</u>	
1) Gusoma, kwandika no gushushanya imigabane itarenze ikizima kimwe, icyita kitarenze 10	- Imisomere, imyandikire n'imishushanyirize by'imigabane itarenze ikizima 1, icyita kitarenze 10.	- Kwifashisha imfashanyigisho mu kwigisha imigabane - Kugaragaza imigabane hakoreshejwe ibishushanyo - Kwerekana imyandikire y'umugabane n'ibiwugize (icyita n'ikibara)
2) Kugereranya imigabane ihuje icyita itarenze ikizima kimwe.	- Igereranya ry'imigabane ihuje icyita itarenze ikizima kimwe, icyita kitarenze 10	- Gukoresha uburyo busanzwe mu igereranya ry'imigabane ihuje icyita gusa
3) gushaka umugabane w'umubare ushyitse, igisubizo ari umubare ushyitse.	- Imigabane y'imibare ishyitse, ikibara kitarenze 1, icyita kitarenze 10, igisubizo ari umubare ushyitse.	- Kwifashisha ibishushanyo mu gushaka umugabane w'umubare ushyitse
4) Guteranya cyangwa gukuramo imigabane	- Iteranya cyangwa ikuramo ry'imigabane ihuje icyita igisubizo	- Gukoresha uburyo busanzwe bwo guteranya no gukuramo

ihuje icyita, igisubizo kitarenze 1. 5) Gukora uduhurizo akoreshamo imigabane.	kitarenga 1. - Icyuzuzo cy'umugabane kuri 1. - Uduhurizo ku migabane.	- Gutanga uduhurizo duhujwe n'ubuzima busanzwe
<i>Umunyeshuri urangije umwaka wa 3 agomba gushobora :</i> 1. Gukoresha imfashanyigisho zabugenewe mu gupima uburebure. 2. Gusoma, kwandika, guhinduranya ingero z'uburebure.	<u>UMUTWE WA KABIRI : INGERO</u> <u>A. INGERO Z'UBUREBURE</u> - Ipima ry'uburebure - Ibinyabumwe by'ingero z'uburebure (km, hm, dam, m, dm, cm, mm) - Ihinduranya ry'ingero z'uburebure, igisubizo kitarenze 9 999 (ava ku kinini ajya ku gito).	- Gukoresha imfashanyigisho zabugenewe bapima uburebure , ibitembabuzi n'uburemere bw'ibintu bitandukanye - Gutangira amasomo y'ingero hanze - abanyeshuri bapima, bagereranya nyuma bagera mu ishuri bagatanga umwanzuro w'ibyo babonye hanze, bagakora n'imyitozo - Mu guhinduranya ingero kwifashisha imbonerahamwe y'ingero

3. Gukoresha amategeko y'ibara ku ngero z'uburebure. 4. Gukora uduhurizo ku ngero z'uburebure.	- Amategeko y'ibara : - Iteranya n'ikuramo ry'ingero z'uburebure - Ikuba n'igabanya ry'ingero z'uburebure n'umubare ushyitse. - Uduhurizo ku ngero z'uburebure.	
<i>Umunyeshuri urangije umwaka wa 3 agomba gushobora :</i> 1. Gukoresha imfashanyigisho zabigenewe mu gupima ibitembabuzi. 2. Gusoma, kwandika, guhinduranya ingero z'ibitembabuzi.	<u>B. INGERO Z'IBITEMBABUZI</u> - Ipima ry'ibitembabuzi - Ibinyabumwe by'ingero z'ibitembabuzi (hl, dal, l, dl, cl, ml) - Ihinduranya ry'ingero z'ibitembabuzi, igisubizo kitarenze 9 999 (ava ku kinini ajya ku gito).	

3. Gukoresha amategeko y'ibara mu ngero z'ibitembabuzi.	- Amategeko y'ibara : ▪ iteranya n'ikuramo ry'ingero ▪ z'ibitembabuzi ▪ ikuba n'igabanya ry'ingero z'ibitembabuzi n'umubare ushyitse w'umubarwa umwe.	
4. Gukora uduhurizo ku ngero z'ibitembabuzi.	- Uduhurizo ku ngero z'ibitembabuzi.	
<i>Umunyeshuri urangije umwaka wa gatatu agomba gushobora :</i>	C. <u>INGERO Z'UBUREMERE</u>	
1) Gukoresha imfashanyigisho zabugenewe mu gupima uburemere. 2) Gusoma, kwandika, guhinduranya ingero z'uburemere.	- Ipima ry'uburemere. - Ibinyabumwe by'ingero z'uburemere (kg, hg, dag, g) - Ihinduranya ry'ingero z'uburemere, igisubizo kitarenze 9 999 bava ku kinini bajya ku gito).	

3) Gukoresha amategeko y'ibara mu ngero z'uburemere. 4) Gukora uduhurizo ku ngero z'uburemere.	- Amategeko y'ibara : ○ iteranya n'ikuramo ry'ingero z'uburemere. ○ ikuba n'igabanya ry'ingero z'uburemere n'umubare ushyitse w'umubarwa umwe. - Uduhurizo ku ngero z'uburemere.	
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<i>Umunyeshuri urangije umwaka wa gatatu agomba gushobora :</i> 1) Gutandukanya amafaranga y'amanyarwanda. 2) Kuvunja amafaranga y'amanyarwanda atarenze 5000. 3) Gukora uduhurizo tuyyanye n'ikoresheya ry'amafaranga atarenze 9 999.	D. <u>AMAFARANGA</u> Ibiceri n'inoti by'amafaranga y'u Rwanda. Ivunja ry'inoti n'ibiceri mu igura n'igurisha. Uduhurizo ku mafaranga.	- Gukoresha uburyo bwakoreshejwe mu mwaka wa kabiri
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<i>Umunyeshuri urangije umwaka wa gatatu agomba gushobora :</i>	E. <u>IGIHE</u>	
Gusoma isaha ishyitse, irenzeho cyangwa ibura iminota.	- Igihe cyerekanwa n'isaha.	- Kwifashisha amasaha afite inshinge
<i>Umunyeshuri urangije umwaka wa gatatu agomba gushobora :</i>	UMUTWE WA 3 : <u>amashushongero n'ibyerekezo</u>	
1) Gukoresha igongo n'inguni avangura kandi ashushanya imfuruka zifunganye, zagutse cyangwa zigororotse.	- Imfuruka zifunganye, zagutse cyangwa zigororotse	- Kwifashisha ibikoreshe bya bugenewe mu gushushanya no gupima imfuruka
2) Gushushanya kare n'urukiramende acamo ingwagati	- Kare n'urukiramende : ingwagati n'impuzampembe	- Kwibutsa uko bashaka umuzenguruko wa kare n'urukiramende - Kwifashisha ikinyatuzu n'agacamurongo mu

n'impuzampembe		gushushanya kare n'urukiramende, guca ingwagati n'impuzampembe
3) Gutandukanya no gushushanya amoko anyuranye ya mpandeshatu.	- Mpandeshatu nyanguni, mpandeshatu nyampanga, mpandeshatu ndinganire.	- Gufasha abana gutandukanya amoko y'impandeshatu bitegereza, bapima bakanashushanya
4) Gushaka umuzenguruko wa za mpandeshatu.	- Umuzenguruko wa mpandeshatu.	- Gufasha abana gupima umuzenguruko wa mpandeshatu bifashishije ilati
5) Gutahura uruziga mu yandi mashushongero no kurushushanya	- Uruziga.	- Kwifashisha agati n'umugozi mu guca uruziga hanze - Gufasha umwana gutahura uruziga mu yandi mashushongero

UMWAKA WA 3 : IGIHEMBWE CYA MBERE

<i>ICYUMWERU</i>	<i>IBARA</i>	<i>INGERO</i>	<i>AMASHUSHONGERO</i>
1	Iyibutsa	Iyibutsa	Iyibutsa
2	Gusoma, Kubara kwandika, gusesengura no kugereranya imibare kuva kuri 0 kugeza kuri 300	Ingero z'uburebure kuva kuri Km-m	_____
3	Guteranya babitsa cyangwa batabitsa igiteranyo kitarenze 3000 Ibiranga iteranya	Ingero z'ibitembabuzi kuva kuri hl-dl	_____
4	Gukuramo badatira cyangwa batira imibare itarenze 3	_____	imfuruka zigororotse, zifunganya n'izagutse
5	Gukuba n'umubare w'umubarwa umwe Mara ya 7	ingero z'uburemere kuva kuri kg-g	_____
6	Gukuba n'umubare w'imibarwa 2 Gukuba na 10, 100, 1000	ihinduranya ry'ingero	gushushanya imfuruka zigorortse, zifunganye n'izagutse

7	Kugabanya n'umubare w'umubarwa umwe	_____	_____
8	Mara ya 8	Imyitozo yo guteranya no gukuramo ingero z'uburebure n'izitwara igisubizo kitarenga 2000	_____
9	Mbare bateranya cyangwa bakuramo	_____	_____
10	Isubiramo	Isubiramo	Isubiramo
11	Ikizamini	Ikizamini	Ikizamini

UMWAKA WA 3 : IGIHEMBWE CYA KABIRI

<i>ICYUMWERU</i>	<i>IBARA</i>	<i>INGERO</i>	<i>AMASHUSHONGERO</i>
1	Iyibutsa	Iyibutsa	Iyibutsa
2	Mbare bakuba cyangwa bagabanya	Uduhurizo turimo ingero: z'uburebure, z'ibitembabuzi n'iz'uburemere	_____
3	Imyitotozo n'amahurizo ku mategeko y'ibara	_____	_____

4	Gusoma, kubara, kwandika kugereranya no gusesengura imibare kuva ku 100-9999	ingero z'uburebure kuva kuri km-m	imfuruka zinyuranye
5	Guteranya babitsa, gukuramo batira imibare itarenze 9999	_____	_____
6	Mara ya 9 Umugabo wa 9	_____	Kuranga kare n'umuzenguruko wayo
7	Ibiranga ikuba Gukuba na 10, 100, 1000	ingero z'ibitembabuzi kuva kuri hl-ml	_____
8	Gushushanya imigabane no kuyigereranya itarenze ikizima 1 icyita kitarenze 10	guhinduranya ingero z'uburebure	_____
9	-	guhinduranya ingero z'ibitembabuzi	Kuranga urukiramende n'umuzenguruko warwo
10	Imyitozo yo guteranya, gukuramo, gukuba no kugabanya	ivunja ry'inoti n'ibiceri mu igura n'igurisha	_____
11	Uduhurizo ku mategeko y'ibara	Uduhurizo ku mafaranga	=====
12	Isubiramo	Isubiramo	Isubiramo
13	Ikizamini	Ikizamini	Ikizamini

UMWAKA WA 3 : IGIHEMBWE CYA GATATU

<i>ICYUMWERU</i>	<i>IBARA</i>	<i>INGERO</i>	<i>AMASHUSHONGERO</i>
1	Iyibutsa	Iyibutsa	Iyibutsa
2	Gushaka umugabane w'umubarwa ushyitse	_____	_____
3	Imyitotozo yo guteranya, gukuramo, gukuba no kugabanya	amategeko y'ibara : guteranya, gukuramo, ingero z'uburebure	- ibiranga mpandeshatu
4	Guteranya imigabane ihuje icyita igisubizo kitarenze 1	guteranya, gukuramo, ingero z'ibitembabuzi	-amoko ya mpandeshatu : nyanguni, na ndinganire
5	Gukuramo imigabane ihuje icyita	guteranya, gukuramo, ingero z'uburemere	_____
6	Igabanya risagura ry'imibare itarenze imibarwa 3 n'umubare 10 umubarwa 1	gukuba, kugabanya n'umubare ushyitse mu ngero z'uburebure, ibitembabuzi n'uburemere	_____
7	Igabanya risagura ry'imibare itarenze imibarwa 3 n'umubare 10 umubarwa 1	imyitotozo yo guhinduranya ingero	Umuzenguruko wa mpandeshatu
8	Imigabane y'imibare ishyitse , ikibara kitarenze 1 icyita kitarenze 10, igisubizo ari umubare ushyitse	igihe cyerekanwa n'isaha	_____

9	-icyuzuzo cy'umugabane ku kizima kimwe	_____	- uruziga n'ibiruranga
10	Uduhurizo ku migabane	-uduhuzizo ku ngero	-uduhurizo ku mashushongero
11	Isubiramo	Isubiramo	Isubiramo
12	Ikizamini	Ikizamini	Ikizamini

VI. IMBONEZAMASOMO

Imbonezamasomo y'imibare yo mu cyiciro cya mbere cy'amashuri abanza ishingiyeye ku ruhare runini umunyeshuri agomba kugira mu gihe yiga, ibyo bituma umwana ashakashaka, akitegereza, agakorakora, agahinduranya, agaterura, agapima, akavumbura akoresheje imfashanyigisho. Uruhare rwa mwarimu ni ukumuyobora.

Umwarimu ateganya imfashanyigisho zijyanye n'isomo agiye kwigisha kandi zitarangaza abanyeshuri. Mu gihe bishoboka, abanyeshuri na bo barazizanira.

Imyigishirize y'isomo ry'imibare igomba kubahiriza imikurikiranire y'ibi bice :

- imboneshajisho
- ishushanya mibare
- imboneshabwenge

Mbere y'uko basubiza, mwarimu agomba guha abanyeshuri igihe gihagije cyo gutekereza no kwishakashakira.

Imyitozo umwarimu atanga igomba kwibanda ku bintu umunyeshuri ahura na byo mu buzima bwe busanzwe. Umwarimu agomba guha abanyeshuri imyitozo ihagije n'imikoro batahana. Umwarimu azahitamo kandi amasomo atangirwa hanze (urugero : - Ingero).

VII. ISUZUMABUMENYI

Mu isomo, umwarimu atanga ibibazo kugira ngo arebe niba abanyeshuri bakurikira kandi basobanukirwa n'imyitozo bahabwa.

Ntagomba kandi kwinubira ibisubizo bimwe na bimwe bitangwa n'abanyeshuri, ahubwo agomba kubagarura mu nzira nziza.

Kugira ngo umwarimu arebe ko amasomo atanga yumvikanye akoresha isuzumabumenyi nyuma y'icyumweru kimwe cyangwa bibiri, n'ikizamini nyuma ya buri gihembwe na nyuma ya buri mwaka.

Mu ikosora, umwarimu azita ku banyeshuri bose ariko yibanda cyane cyane ku banyeshuri batari bahugukirwa n'inyigisho zitangwa.

VIII. INGINGO ZIHARIYE

1. Ibimenyetso by'ingero mu ndimi z'amahanga byari bisanzwe bikoreshwa ntibizahinduka
(Ingero : j4, h1, min 5, s 30, F 20)
2. Mu gutegura imyitozo yo mu isuzumabumenyi, mwarimu ntagomba kwibanda ku bibazo akura mu gitabo cy'abanyeshuri, ashobora kubateganyiriza ibindi bibazo yihimbiye cyangwa akura mu bindi bitabo akurikije ubushobozi bwabo.
3. Ibibazo by'isuzumabumenyi bigomba gushingira kuri ibi :
 - Ubumenyi
 - Ubumenyigiro
 - Ubukeshya
4. Mu myandikire y'imibare ishyitse kuva ku 1000 kugera ku 10 000 akadomo cyangwa akitso bijya bikoreshwa hagati y'imibarwa itatu n'iyibanziriza bizasimburwa n'akanya kahasigara (urugero 9 345)

IX. IBITABO BYIFASHISHIJE

Umwanditsi	Izina ry'igitabo	Aho cyandikiwe	Umwaka
Ubuyobozi bw'Integanyanyigisho z'Amashuri Abanza n'iz'Agamije Amajyambere y'Imyuga.	. IMIBARE 1 : - Igitabo cy'umunyeshuri	Icapiro ry' Amashuri KIGALI	1979
”	. IMIBARE 2 : - Igitabo cy'umwarimu - Imboneracapa rya 2	”	Mutarama 1987
”	. IMIBARE 2 : Igitabo cy'umunyeshuri	”	[s.d.]
”	. IMIBARE 3 : - Igitabo cy'umwarimu, Iboneracapa rya 2	”	Mutarama 1987
”	. IMIBARE 3 : Igitabo cy'umunyeshuri	”	1982
”	. IMIBARE 3 : IMYIGISHIRIZE Y'IMIBARE MU MASHURI ABANZA.	”	Gashyantare 92 Kamena 1983
”	Lexique spécialisé Français – Kinyarwanda	”	1985
Global Publishers KAMPALA	PRIMARY SCHOOL MATHEMATICS BK1 - BK2 - BK3	Uganda Bookshop	”
Matovu Fred F.K, Roy D. Holland	PRIMARY MATHEMATICS FOR UGANDA	”	”
Kiggundu-Mukasa Daniel et al. Mugumu Deogratias et al.	Primary Mathematics 2000. Pupil's books:2 and 3 Primary Mathematics 2000.Teachers guide 6	MK Publishers-Kampala ”	2000 2000

