Functional Numeracy for Food Security and Nutrition

Uno How's Basic Factsheets

Ngec mogo ma konyi me tino cura ma megi

Man myero ki tii kwede malube ki buk me 1 ki buk me 2. Cura me nong dit pa poto ma ka megi ka byeko dit pa kodi ma mite pi pur, fetalaiza ka yat akira ma mite.

Buk me 1 ki me 2 twero nonge i intanet ii: http://www.agritechtalk.org/Uno How Introduction.html

Meja ma konyo loko metrix

Bore

	Kilomita (km)	Mita (m)	Centimita (cm)	Milimita (mm)
Kilomita (km)		1000 m	100000 cm	1000000 mm
Mita (m)	0.001 km		100 cm	1000 mm
Centimita (cm)	Pire pe tek tutwal	0.01 m		10 mm
Milimita (mm)	Pire pe tek tutwal	0.001 m	10 cm	

Ariya

	Heckta (ha)	Mita Citweya (m^2)	Centimita Cikweya (cm^2)
Heckta (ha)		10000 m^2	Pire pe tek tutwal
Mita Citweya (m^2)	0.0001 m^2		10000 cm^2
Centimita Citweya (cm^2)	Pire pe tek tutwal	0.0001 m^2	

Volum

	Mita cub (m^3)	Lita (l)	Milimita (ml)
Mita cub (m^3)		1000 l	1000000 ml
Lita (l)	0.001 m^3		1000 ml
Milimita (ml)	Pire pe tek tutwal	0.001 l	

Pek pa jami

	Metrix taan (t)	Kilo (kg)	Guram (g)	Milligram (mg)
Metrix taan (t)		1000 kg	1000000 g	Not useful
Kilo (kg)	0.001 t		1000 g	1000000 mg
Guram (g)	Pire pe tek tutwal	0.001 kg		1000 mg
Milligram (mg)	Pire pe tek tutwal	0.000001 kg	0.001 g	

Uno How's Basic Factsheet

Ngec mogo ma konyi me tino cura ma megi

Heckta ki ecka

- Pimo piny/jami (ariya, bor kin piny, bor pa jami, pek pa jami ki mukene…) pol kare time kun watiyo ki jami tic ma cik cimo dok nongo dano bene twero niang. Metrix Cictim pol kare ki tiyo kwede I wii lobo kulu man aye Heckta, mita, kilo ki mukene.

- Kede ka bed kumeno, lobo ma pat pat pol kare tye ki yoo ma megi pimo jami, ma pol dano me lobo meno nyeo maber dok gin maro me tic kwede.

- Pi fetalaiza, kodi, ka yat anyai ma ki cato ducu, kit me tic kwedgi pol kare ki nyutu pire kun ki tiyo ki yoo ma wilobo ducu ngeyo pire ka bene ngene kit me poro wat I kin gi ki yoo me pimo jami ma dano ngeyo I kin gang.

- Wat I kin yoo me pim jami ii kin gang ki ii wilobo kulu kinyutu pire ii meja ma kubu wat ii kin yoo me pimo piny ma pat pat.

- I Uganda, pimo poti pole time ii ecka ki Heckta (ha). Ecka dok tidi loyo heckta manok.

Meja me loko ecka, Heckta (Ha) ki cikweya mita (sq. m or m^2)

1 heckta = 2.47 ecka (nyo itwero tic ki 2.5 ka I tye ka byeko abyeka)

1 ecka = 0.405 heckta (nyo itwero tic ki 0.4 ka I tye ka byeko abyeka)

1 ecka = 4050 mita cikweya (nyo itwero tic ki 4000 ka I tye ka byeko abyeka)

- Me loko dit ma ngom ki I hecka me dok I ecka, myero inya ki 2.47 (nyo itwero poko ki 0.405)

- Me loko dit ma ngom ki I ecka me dok I hecka, myero inya ki 0.405 (**nyo itwero poko 2.47**)

- Me loko dit pa ngom ecka acel wek ii cikweya mita, myero inya ki 4050.

- Me loko dit pa ngom ma tye ii mita cikweya wek obed ii ecka, myero ipok ki 4050.

Lanyut me loko ecka wek odong Heckta:

Meja me loko ecka, Heckta (Ha) ki cikweya mita (sq. m or m^2)

1 heckta = 2.47 ecka (nyo itwero tic ki 2.5 ka I tye ka byeko abyeka)

1 ecka = 0.405 heckta (nyo itwero tic ki 0.4 ka I tye ka byeko abyeka)

1 ecka = 4050 mita cikweya (nyo itwero tic ki 4000 ka I tye ka byeko abyeka)

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1. Lok heckta (ha) 3 I ecka:
= 3 x 2.47
Tic ki yoo man wapwonye iye ii buk me 1 ("nyano decimol namba ma dongo ki yoo me lanya ma bor"), watero timo meno kit man:
3 x 2.47 = 7.41 ecka

2. Byek dit pa poto heckta 3 i ecka:
   a. = 3 x 2.5
Tic ki yoo man wa pwonye iye ii buk me 1 ("nyano decimol namba ma dongo ki yoo me lanya ma bor"), watero timo meno kit man:
3 x 2.5 = 7.5 ecka

3. Dit pa poto ma tye ecka 8 rom kwene I heckta?
= 8 x 0.405
 Tic ki yoo man wa pwonye iye ii buk me 1 ("nyayo decimol"):
8 x 0.405 = 3.24 heckta

4. Byeka dit pa poto ma tye ecka 8 I heckta
= 8 X 0.4
Tic ki yoo man wa pwonye iye ii buk me 1 ("nyayo decimol"):
8 X 0.4 = 3.2 heckta

5. Lok ecka 2 i cikweya mita:
= 2 X 4050 = 8100 cikweya mita

Kit ma namba wa twero keto kwede kacel
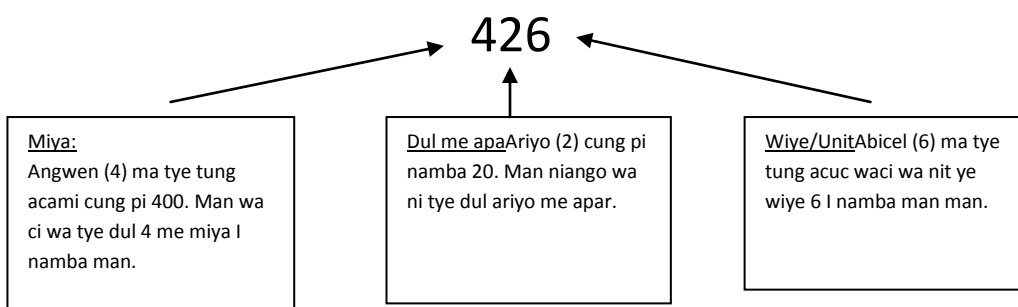
- Ka itye ka tic ki namba, pire tek me ngeyo pingo ki coyo gi kit ma gin tye kwede ni.
- Namba ducu(kono dit nyo tidi) ki nyutu pi gi kun watiyo namba magi 0, 1, 2, 3, 4, 5, 6, 7, 8 ki 9.
- Ka namba mo nip e otunu apar, ki twero nyutu pire nyo coyo ki namba acel eno ni(labole. 1 nyo 2 nyo 3 etc.)
- Ka namba oromo apar(10) nyo ma kato, ento pe oromo miya acel(100), myero wa co namba ariyo magi ducu piny. Namba ma tye tung acami nyuti wa dul apar adii ma tye I namba meno ki dong namba ma tye tung acuc nyuti wa wel wiye /unit adii ma tye ikom apar man(namba ma pe otunu apar)
  Labole 26. Namba man tye ki 20 + 6 = 26 iye.

26

Dul me apar:	Wiye/Unit:
Namba ariyo ma tye tung acam kanyi cung pi namba 20. Man Waco ki wan ni, tye set ariyo me apar I namba man.	Abicel (6) ma tye tung acuci waco niya, tye wiye 6 I kom namba man ma diti.
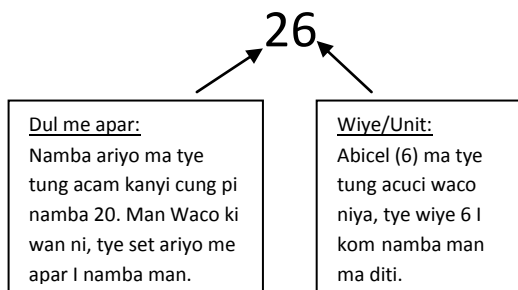
- Ka namba dong tye miya acel (100) nyo ma kato, ento pe oromo alip (1000), ma nong wa mito namba adek me cung pi en. Namba ma tye tung acam nyuti wa miya adii ma tye I alip moni. Namba/digit ma tye idyere ni waci wa miya adii ma tye I alip moni ka dong namba ma tye tung acuc waci wa wiye/unit adii ma tye I namba aceli(magi aye namba ma pe tunu apar).
  Labole namba 426.   Namba man tye ki 400 + 20 + 6 = 426

426

Miya:	Dul me apaAriyo (2) cung pi	Wiye/UnitAbicel (6) ma tye
Angwen (4) ma tye tung acami cung pi 400. Man wa ci wa tye dul 4 me miya I namba man.	namba 20. Man niango wa ni tye dul ariyo me apar.	tung acuc waci wa nit ye wiye 6 I namba man man.

- Ma cal ki man, ka namba mo ni tye alip (1000) nyo makato, nyo ma pe tunu alip apar(10000), wa mito namba/digit 4 wek ocung pi namba man. Namba man tye ki 7000 + 400 + 20 + 6

Labole: 7426

Alip   Miya   Apar   Wiye
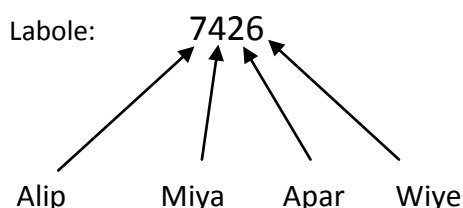
Uno How's Basic Factsheet

Ngec mogo ma konyi me tino cura ma megi

Meja me lanya

x	1	2	3	4	5	6	7	8	9	10	11	12
1	1	2	3	4	5	6	7	8	9	10	11	12
2	2	4	6	8	10	12	14	16	18	20	22	24
3	3	6	9	12	15	18	21	24	27	30	33	36
4	4	8	12	16	20	24	28	32	36	40	44	48
5	5	10	15	20	25	30	35	40	45	50	55	60
6	6	12	18	24	30	36	42	48	54	60	66	72
7	7	14	21	28	35	42	49	56	63	70	77	84
8	8	16	24	32	40	48	56	64	72	80	88	96
9	9	18	27	36	45	54	63	72	81	90	99	108
10	10	20	30	40	50	60	70	80	90	100	110	120
11	11	22	33	44	55	66	77	88	99	110	121	132
12	12	24	36	48	60	72	84	96	108	120	132	144

Uno How's Basic Factsheet

Ngec mogo ma konyi me tino cura ma megi

Meja me lanya ma pi gi tego

1x

1	x	1	=	1
2	x	1	=	2
3	x	1	=	3
4	x	1	=	4
5	x	1	=	5
6	x	1	=	6
7	x	1	=	7
8	x	1	=	8
9	x	1	=	9
10	x	1	=	10

2x

1	x	2	=	2
2	x	2	=	4
3	x	2	=	6
4	x	2	=	8
5	x	2	=	10
6	x	2	=	12
7	x	2	=	14
8	x	2	=	16
9	x	2	=	18
10	x	2	=	20

3x

1	x	3	=	3
2	x	3	=	6
3	x	3	=	9
4	x	3	=	12
5	x	3	=	15
6	x	3	=	18
7	x	3	=	21
8	x	3	=	24
9	x	3	=	27
10	x	3	=	30

4x

1	x	4	=	4
2	x	4	=	8
3	x	4	=	12
4	x	4	=	16
5	x	4	=	20
6	x	4	=	24
7	x	4	=	28
8	x	4	=	32
9	x	4	=	36
10	x	4	=	40

5x

1	x	5	=	5
2	x	5	=	10
3	x	5	=	15
4	x	5	=	20
5	x	5	=	25
6	x	5	=	30
7	x	5	=	35
8	x	5	=	40
9	x	5	=	45
10	x	5	=	50

6x

1	x	6	=	6
2	x	6	=	12
3	x	6	=	18
4	x	6	=	24
5	x	6	=	30
6	x	6	=	36
7	x	6	=	42
8	x	6	=	48
9	x	6	=	54
10	x	6	=	60

7x

1	x	7	=	7
2	x	7	=	14
3	x	7	=	21
4	x	7	=	28
5	x	7	=	35
6	x	7	=	42
7	x	7	=	49
8	x	7	=	56
9	x	7	=	63
10	x	7	=	70

8x

1	x	8	=	8
2	x	8	=	16
3	x	8	=	24
4	x	8	=	32
5	x	8	=	40
6	x	8	=	48
7	x	8	=	56
8	x	8	=	64
9	x	8	=	72
10	x	8	=	80

9x

1	x	9	=	9
2	x	9	=	18
3	x	9	=	27
4	x	9	=	36
5	x	9	=	45
6	x	9	=	54
7	x	9	=	63
8	x	9	=	72
9	x	9	=	81
10	x	9	=	90

10x

1	x	10	=	10
2	x	10	=	20
3	x	10	=	30
4	x	10	=	40
5	x	10	=	50
6	x	10	=	60
7	x	10	=	70
8	x	10	=	80
9	x	10	=	90
10	x	10	=	100

0x

Nyayo namba , ki bene poko namba, ki 0 konye pe ki bene lagam ma ka megi gak 0

Labole: 4 x 0 = 0

4 ÷ 0 = 0

Uno How's Basic Factsheet

Ngec mogo ma konyi me tino cura ma megi

Nyayo ki poko namba ki 10, 100, 1000 wot kwede anyim

- **Nyayo ki poko namba ki 10, 100, 1000 wot kwede anyim. Tye tic ma yot tutwal.**

Nyayo namba ki 10

- **Ka namba ma itye ka nyayo ne nit ye namba ma opong, ma yote med 0 (Zero) keken I ngeye nyo agiki pa namba eno ni. Labole, 7 x 10 = 70**

$$26 \times 10 = 260$$

- **Ka ton tye I namba moni, nyik ton meno citep acel me dok tung acuc.**

    Labole,   **0.6 x 10 = 6. (ma rom aroma ki 6.0 ma bene rom ki 6)**

    3.4 x 10 = 34. (ma rom aroma ki 34.0 ma rom aroma ki 34)

Nyayo namba ki 100

- **Ka namba ma itye ka nyayo tye ma opong, myero imed keken zero ariyo I agiki pa namba meno. Labole, 8 x 100 = 800**

    43 x 100 = 4300

- **Ka ton nyo decimol mot ye, nyik ton meno citep ariyo me dok tung acuc. Man rom aroma ki nyayo en namba meno ki 10 ka dok ki 10 mukene (pien 100 = 10 x 10).**

    Labole, 0.9 x 100 = 90:
    Cak ki nyiko decimol/ton kabedo acel me dok tund lacuc: 0.9 dong bi bedo 9. (ma bene rom ki 9.0)

    Ki man bene dok inyik kabedo pa ton ka bedo acel mukene me dok tung acuc:

    9.0 bino bedo 90.

    Labole mukene, 4.74 x 100: = 474
    Mukwongo, nyik decimol kabedo ki cel tung acuc: 4.74 bino bedo 47.4

    Nyik dok aye kabedo mukene me dok tung acuc: 47.4 becomes 474

Nyayo namba ki 1000

- Ka itye ka nyayo ki alip (1000), med keken zero adek, nyo ka ton tye iye, nyik ton meno ka bedo adek me dok tung acuc.
  Labole, 0.03 x 1000 = 30:
  Nyik ton meno kabedo acel me dok tung acuc: 0.03 bi bedo 0.3 (rom aroma ki 0.30)

  Ki dong nyik ton wek ocit I kabedo mukene me dok tung acuc: 0.30 bi bedo 3.0

  Nyik dok aye kabedo mukene me dok tung acuc: 3.0 bi bedo 30

Poko ki 10

- Watimo ma rom aroma ki kit ma wabedo ka timo lanya ki 10 ente woto olungtuke mere(pa lanya)

- Ka itye ki namba ma opong ento gik ki 0, mayote kwany ka keken en zero meno woko.
  Labole,   20 ÷ 10 = 2Ø = 2
                   320 ÷ 10 = 32Ø = 32

- Pi namba mukene,nyik ka bedo pa ton citep acel me dok tung acam:

  Labole,   565 ÷ 10 = 56.5

Poko namba ki 100

- Wa timo marom aroma ki kit ma wabedo kaneno kit me nyayo ki 100 ento kun nongo watimo I olungtuke mere:

- Ka itye ki namba ma opong dok gik ki zero ariyo, ma yote kwany keken zero ariyo meno keken woko:
  Labole,   300 ÷ 10 = 3ØØ = 3

- Pi namba mukene, nyik en ton meno ka ariyo me dok tung acam:

  Labole,   7 6 8 ÷ 100 = 7.68

Poko namba ki 1000

- Me nwono, wan bene wa tiom en gin aceli ka wa tye ka nyayo ento I olungtuke mere:
- Ka wa tye ki namba ma opong ma gik ki zero adek, wa kwanyo keken zero adek ma giko ni.   Labole,   6000 ÷ 10 = 6000 = 6

- Pi namba mukene ma mit cura ma calo man, nyik ton ka bedo adek me dok tung acam:
  Labole,   90.67 ÷ 1000:

  Man rom aroma ki   090.67 ÷ 1000

  0 9 0.67 ÷ 1000 = .0967 which is the same as 0.0967

Uno How's Basic Factsheet

Ngec mogo ma konyi me tino cura ma megi

Raunding namba

- Ikare mukene watimo cura ent wanongo lagam mabor tutwal, ki digit ma pol. Ka wa mito ni lagam ma mewa obed macek dok ma niango ne bedo yot, watwero guru/raunding namba ma mewa woko me weko coyo gi obed mayot.
- Cak ki moko tam ma meri wel digit adi ma imito bedo kwede ka imito raunding.
- Namba ki twero rounding wek obed but namba keken (ki ton iye) nyo namba ma opong-yoo tic tye ni rom aroma.
- Yer kabedo pa namba ma imito raunding ni
- Ka dong nen namba ma tye cok ki ma Imito raunding ki tung acuc pa namba meno, ci dong mite ni imed acel (+1) I kom digit ma imito raunding ni. Ka namba eno nip e otunu 5, itwero weke kit ma en tye kwede ni.
- Nen ma ber: Ka namba ma imito rounding nit ye 9 ki dong namba ma tye tung acuce nit ye 5 nyo makato, namba 9 meno dong bi bedo 0 ka dong imedo acel (+1) ikom namba ma tye tung acam pa abunwen ni.

Labole:

Rounding 256.686 me doko namba ma tye ki decimol 1 (namba acel iyoo nge ton).

$$256.686 \quad = \quad 256.7$$

> Man aye digit ma wa tye ka raunding ni. Pien namba ma tye tung acuce ni dit kato 5, wa twero loke me doko 7(6+1).

Raunding 7431.409 me doko namba ma opong (labongo ton mo keken)

$$7431.409 \quad = \quad 7431$$

> Man aye digit ma wa tye ka raunding ni. Pien namba ma tye tung acuci pe otunu 5, pe mite ni wa loke(ni wa med acel)

Raunding 83657 me doko alip macok kwede loyo

$$83657 \quad = \quad 84000$$

> This is the digit we are rounding off to. Because the number to its right is greater than 5, we change it to a 4 (3+1).

Raunding 2.967 me doko namba ma tye ki kabedo pa ton/decimol 1

$$2.957 \quad = \quad 3.0$$

> Man aye digit ma wa tye ka runding iye ni.pien tye 9 ki bene namba ma tye ki tung acuci tye 5, wa dong watero loke me doko 0 ka dong wa medo 1 ikom namba ma tye tung acam pa 9 (2+1 = 3)
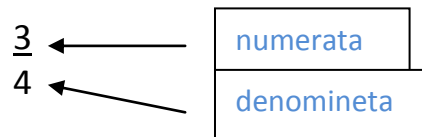
Wiye ma dongo malube ki purackcon

- Purackcon obedo namba ma pet ye ma opong. Ki nyutu pir gi ki alama me / nyo lanyut me —

- Namba ma tye iwi lain ki lwongo gi numerata. Ki namba ma tye ki iter lain ki lwongo ni denomineta.

$$\frac{3}{4}$$ ← numerata

← denomineta

- Ka numerata tidi loyo denomineta, (kit ma ki nyutu pire maloni), wel purackcon meno bi bedo ma tidi loyo 1(pe oo acel)

- Ka numereta dit loyo denomineta, man Waco ki wa n ni namba eno ni dit loyo acel.

- Purackcon twero niange maber ki ngatdo mugati ma tye alunga I size ma rom wek orom dano marom. Wa twero niango denomineta ki tamo pi mugati ma tino tino ma ki ngolo ki I kom mugati ma kulu. Ka bene wa twero niango numereta ki ma calo wel mugati ducu ma ki ngolo .

  Labole, mugati ki twero ngolo iye 4 matino ka acel ikom angen eni ni ki twero mino ne woko. Man waci wa ni ¾ pa pai eno ni en aye tye ma odong ka dong ¾ ki miyo woko
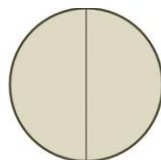

¾ pa pai(mugati) aye tye ma odong
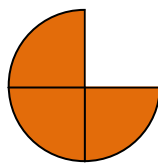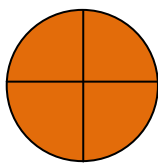
¼ pa pai tye ma kityeko miyo woko
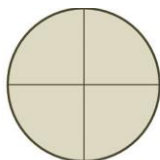
- Purackcon mogo ma pol kare wa tiyo kwede
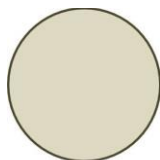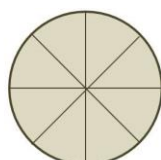

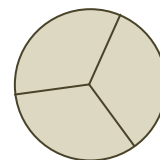Alutu   Nucu   Akwota   Acel ikom aboro   Acel ikom adek

- Putackcon twero loke dwogo ma yot ka tye ka mite. Labole 5/3 rom a roma ki 1 2/3. Man ki tito pire I waraga ma tito kit me tic ki buk man.
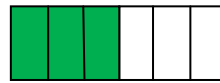
Uno How's Basic Factsheet

Ngec mogo ma konyi me tino cura ma megi

Weko purackcon doko yot

- Purackcon ma tye ki kite acel twero coye iyoo ma pat pat.

- Man ki lwongo ni ekwivalen purackcon.

  Labole, Watwero neno ki I bok ma tye piny eno ni ½ tye ki valu ma ro ki 3/6

  Purackcon ki twero loko doko equivalen purackcon ki poko nyo nyayo numereta ki denomineta ki namba ma rom aroma.

  Labole, $\underline{1}$ = $\underline{1 \times 3}$ = $\underline{3}$ nyo, iyoo mukene: $\underline{3}$ = $\underline{3 \div 3}$ = $\underline{1}$
      2   2 X 3 6   6   6 ÷ 3 2

- Weko purackcon doko yot tere ni coyo piny equivalen purackcon wek obed ki numereta ma ma tidi iwi denomineta moni.

  Labole, ka itye ka weko 45/63 doko yot, nen niya 45 ki 63 twero poke ki 9(man aye komon fakta ma megi). Pi meno me weko gi doko yot nyo pe pek tutwal:

  $$\underline{45} = \underline{45 \div 9} = \underline{5}$$
  $$63 \quad 63 \div 9 \quad 7$$

  Me weko 21/24 doko yot, wa neno niya, komon fakta (namba ma twero poko gi ducu) tye 3:

  $$\underline{21} = \underline{21 \div 3} = \underline{7}$$
  $$24 \quad 24 \div 3 \quad 8$$

- Man waci wa niya, purackcon kitwero weko doko yot keken ka namba ma tye iwiye (Numereta) ki ma tye itere (denomineta) tye ki komon fakta. Pi man, labole 19/24 pe twero loke doko ma yot pien 19 ki 24 pe tye ki komon fakta.

- Ka nemreta (namba ma tye iwiye) tye ma dit kato denomineta (namba ma tye itere) walwongo ni impropa purackcon- man bi bedo dit loyo 1. Ka wa bi mito ni wa wek impropa purackcon obed yot:

  Labole: me weko 42/8 ma poko 42 ki 8. Man bibedo 5 dong 2(pien 5 x 8 = 40 ki 42-40 = 2). Man tere ni 42/8 = 5 ka 2/8 bi dong. 2/8 bene pud bene twero dwoke piny (pien 2 ki 8 gin tye ki fakta ma tye cal ma en aye 2) me doko ¼. Pi meno, 42/8 rom aroma ki 5¼.
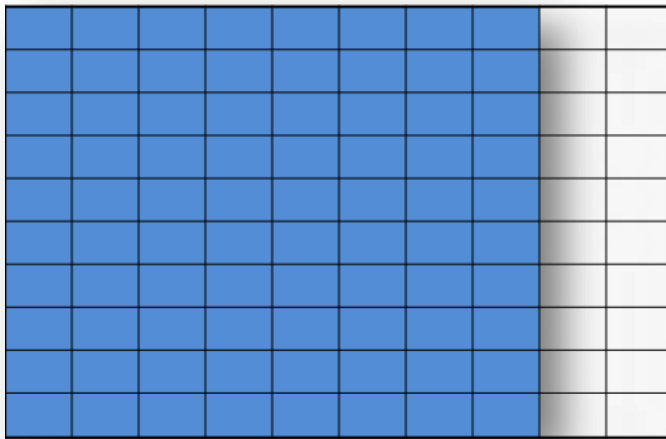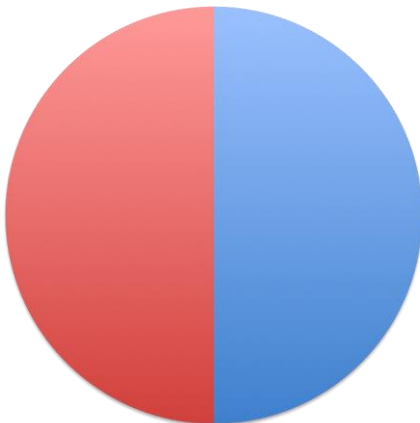
Uno How's Basic Factsheet

Ngec mogo ma konyi me tino cura ma megi

Pacen

- Pacen obedo namba ma ki tito pire ikom/iwi 100.
- % aye lanyut me pacen.
- Me weko man odok yot, pacen tere ni "ikom 100".
- Pi man % 80 tere ni ikom 100(%80 pa bok man tye ma bulu).

- Pacen bene twero nyute ma calo decimol nyo purackcon.

Nucu twero coye…

Ma calo pacen: % 50

Ma calo decimol: 0.5

Ma calo purackcon : $\dfrac{1}{2}$

- Me loko pacen wek odok decimol, pok ki 100.
  Labole,lok % 48 wek odok decimol: 48 ÷ 100 = 0.48

- Iyoo ace leno ni, me loko decimol I pacen, nyaa ki 100.
  Labole, lok 0.67 me doko pacen: 0.67 x 100 = % 67

- Me loko pacen wek odok purackcon, co pacen enoni ma calo purackcon iwi 100 ka dong iwek odok ma yot.

  Labole, % 20 tere niya $\dfrac{20}{100} = \dfrac{1}{5}$

Pire tek tutwal me ngeyo ikwivalen purackcon ki pacen ki wic nyo ki cwinyi:

$$\frac{1}{2} = 50\ \%$$

$$\frac{1}{4} = 25\ \%$$

$$\frac{1}{10} = 10\ \%$$

$$\frac{3}{4} = 75\ \%$$

$$\frac{1}{5} = 20\ \%$$

- Labole:
  Me nongo % 20 pa 30, lok % 20 I decimol ka dong inyaa ki 30.
  20% = 0.2
  0.2 x 30 = 6

  Yoo mukene me nongo % 20 pa 30 aye me nongo %10 pa 30 ka dong inya lagam meno ki 2.
  10% of 30 is 30 ÷ 10 = 3
  2 x 3 = 6

  Yoo me adek aye me niang ni % 20 rom aroma ki acel ikom abic, ka dong ipok 30 ki 5.
  30 ÷ 5 = 6

Raciyo

- Raciyo ki tiyo kwede me poro dwong pa jami ariyo nyo ma kato; iyoo mukene, raciyo Waco dwong pa jami acel ma ki poro ki jami mukene.
- Raciyo ki nyutu pire ki lanyut me : labol, 'recktengul ma green 12 ki poro ki rectengul 4 ma green(alum alum).

- Raciyo twero nyute iyoo ma pat pat. Labole,ma ka ka : wa tic twero ki "to" ; 12 to 4
- Wa twero raciyo ma calo purackcon; 4/12.
- Raciyo ki twero weko doko yot ki poko but raciyo magi ducu ki komon fackta. Labole, 12 : 4 = 3 : 1 (gin ducu twero poke ki 4). Iyoo mukene, raciyo man ki tiyo kwede pi rectengul 3 ducu, tye recktengul 1 ma yello.

Labol kit me timo cura me nongo ratio:

Lapur tye ki poto ma dite tye heckta 2.5. en opito anyogi ki kabir I raciyo me 2:3

Ket ni poto ducu opoke iye 5 (2+3), bute tye 2 anyogi ka bute 3 tye kabir.

Bute 5 magi tye rom ki heckta 2.5, pi man, bute 2 rom ki 2.5/5 ma rom aroma ki 0.5 heckta.

Lapur pito bute 2 ki anyogi ki bute 3 ma odongi opito kabir pi manha 1 me anyogi (0.5 x 2) ki ha 1.5 me kabir (0.5 x 3).

Ka imito roto ka cura ma megi tye ka kare, med wel ha me anyogi ki kabir. Totole ducu myero obed rom ki ha 2.5.

Roto cura ma megi ka tye ka kare

- Pol kare yot tutwal me timo bal ikare ma itye ka timo cura ma megi. Bal mo keken kede matidi weko wabedo ki acara ma dit tutwal, rwenyo lonyo ki cente.

- Ka itimo cura mo keken, itwero roto lagam ma meri pi oyot me neno ka tye kakare.

- **Byeko:** man time ka keti I raunding namba moni I acaki me me cura ma megi wek tic kwede obed ma yot. Itwero timo cuta ma meri odoco me neno lagam ma meri ka cok ki lagam ma meri ka cok ki lagam ma con ca.

- **Timo olungtuke pa cura man:** Man time ka itiyo ki lagam ma meri ma con ka itim cura kun idok kwede cen me neno ka inongo lagam ma inongo con ca.

Byeko

- Labole, imito wilo opiro 504 me fetalaiza, opiro acel acel wele tye $6.00. Ti cura me nongo wel opiro adii ma $3024.00 twero wilo.

		5	0	4
x				6
	3	0	2	4
				2

Me neno namba man kun nongo ibyeko abyeka,
504 cok cok ki 500
500 x 6 = 5 x 6 x 100 = 3000, pi man lagam nen calo tye ka kare.

Loko olung tuke

- Dano pole pe twero timo bal/mictek ka gitye ka medo jami ameda nyo nyayo ka iporo ki ka dono tye ka timo lakwany ki lapok.

- **Labole, itye ki** $2540 ki dong tami tye me wilo dyegi mo ki dong tye ni dyel acel wele tye $55. me tic ki lapok, itwero wilo dyegi 46, ki bene ibino dong ki $10 ma calo balany.

$$55 \overline{)2\,{}^2 5\,{}^{25}4\,{}^{34}0} \quad \begin{array}{l} 4\;6 \quad \text{rem. } 10 \end{array}$$

Citep me 1: 2 ÷ 55. Pe dony pi man wot ki 2 anyim.
Citep me 2: 25 ÷ 55. Pe dony pi man wot ki 25 anyim.
Citep me 3: 254 ÷ 55 = 4 dong. 34. Ket 4 iwi lain. Wot ki 34 anyim.
Citep 4: 340 ÷ 55 = 6 dong 10. Ket 6 iwi lain. 10 aye dong balany ma dong me agiki.

Me neno ka lagam ma ka megi tye ka kare, nyaa 46 x 55 = 2530.00 ka dong imed balany ma odongi, man en aye 10, pi man 2530 + 10 = 2540, ki man lagam ma mewa tye kakare.

Rwom me twii pa kodi

Kodi mito lyeto manok, ngico ki dong yamo wek odong. Ka jami magi ducu tye irwom ma kakare, kodi ma kome yot bi deng inge mato ngico ka dong cako dongo me doko cam. Man ki lwongo jaminecon.

Kede ka bed ma nongo jami ma mite me dongo ducu tye ma ber, pe tye ma calo twero ni kodi ma kipito ducu myero otwii. Tye gin ma time ni kodi mukene pe bino twii. Rwom me twi pa kodi moni ocung ikom wel kodi ma twii ka kodi kipito ingom ma tye jami ma mite me dongo pa kodi.
Rwom me twi pa kodi cung ikom jami ma pol. Kodi mogo tye ki rwom me twii ma megi ma tye lapiny loyo mukene.(Laboel karot tye ki rwom me twii ma megi ma tye lapiny loyo Muranga). Rwom me twii pa kodi bene cung ikom yot kom cam ma megi ikare ma en pud tye kadongo ipoto. Ki bene cam meno myero obed ma pe two ki anyai mo keken oyello ikare me dongo ne.

Me nongo rwom twii pa dul pa kodi moni

1. Ket nyig kodi ma romo gin 10(ka itiyo ki wel kodi ma dwong kare bedo kere ki in me nongo lagam ma ka kare). Man ibino keto ii tawel ma ngic nyo karatac ma ngico tye iye. Ban wi karatac man nyo tawel ma ngici ka dong iket ii bag ma obedo plastic. Bag man myero kitwe wiye pe ma tek tutwal ma me weko kodi me two woko ento nongo pud weko yamo me oo ikom kodi meno.
2. Wek tawel man ma ngici obed ikabedo ma lyet lyet pi nino 2 me oo nino 5.
3. Inge kare man, rot towel man , yabi ka dong ikwan wel kodi ma otwii.
4. Tim cura me nongo pacen pa kodi ma otwii ki poko namba pa kodi ma otwii ki wel kodi ma con ki pito ka dong inyaa ki 100. Labole, ka itye ki kodi 20 ki dong 17 aye otwii iyoo nge in pitone, pacen me twii pa kodi man bibedo 17/20 x 100 = % 85.

Ngeyo rwom me twii pa kodi konywa me niang wel kodi ma mite pi poto mo ni ma lube kid it pa poto eno ni. Labole, ka itye ki opiro me kodi ma tye ki kero me dongo ne ma tye % 60, ki mukene tye ki % 80, mite ni myero icoo kodi ma dwong pi kodi me aceli ka iporo ki kodi me ariyo ni (ma tye ki rwom twii ne % 80). Itwero timo cura me nongo wel kodi ma mite poto moni pi kodi acel acel ma tye ki kero me twii ma lapiny (%60). Me timo man, pok 80 ÷ 60 = 1.33. Pi man, ki pito kodi 1.33 x 3 = 4 I kabedo acel acel acel ma kodi ki kipito kun nongo kwaliti ne tye lapiny. Ka itimo man pud itwero nongo wel kodi ma rom aroma ki kodi ma rwome tye lamal ni.

Ngeye angeya ni twi pa kodi maber aye yoo acel me puru kodi ma rwome tye malo. Kede ka bed ni kodi moni tye ki rwom me twii mere ma tye %100, ma lube ki peko ma cam nongo ipoto(twoo pa cam, ngom maraca, two ki mukene) pe tye kakare ni cam magi ducu bino dongo dok tegi maber.(Man Ki lwongo field fakta).

Uno How's Basic Factsheet

Ngec mogo ma konyi me tino cura ma megi

Dailucon ret

Dailucon obedo tic me weko gin moni teko pa gin moni, rwome ki jami ma tye iye dok piny. Labole, ka wa wilo yat anyai, nongo gin tye ma tek tutwal (kec tutwal) ki man, myero warubi kip ii wek teko gi odok piny ma pud pe ya watiyo kwede.

Yat anyai ole nongo ki coyo I komgi me niangi kit ma myero irub gi kwede. Ka yoo meno pe kilubu kakare, I agiki itwero nongo ni itiyo ki yat ma nok nyo ma dwong tutwal. Yoo me rubu yen ducu ki miyo ki in I pacen nyo I raciyo.

Dailucon raciyo
Raciyo dong watyeko neno pire angec/con ki dong tye ni yoo me tic kwede gak marom ka itye ka tic me nong dailucon reciyo.

Labole, itwero yubu lita 15 me gin ma pige iyoo mene I dailucon reciyo ma tye 1:49?
1. Me acel kong itii me nongo totol ma but reciyo magi ocung pire. Man aye 1 + 49 = 50.
2. Man tere niya, bute 50 me gin akira,1 myero obed decimol. Ma calo pa pacen,watwero nyutu ma calo decimol: 1/50 = 0.02
3. Nyaa 0.02 x 15 lita = 0.3 lita. Ki meno, pi dailucon raciyo ma tye1:50 ibino mito lita 0.3 me yat ma kirubu ki 14.7(15-0.3) lita me pii tye ma mite pi lapik ma ka megi
4. Meja ma tye piny eno ki twero tic kwed gi nongo wel cat akira ma imito pi range pa dailucon ret ki volum.

Dailucon ret mogo ma pir gi tego

Dailucon raciyo	% pa kemikol ma mite	Wel RTU weng (ma dong iromo tic kede) ma mite			
		1 l	5 l	10 l	20 l
1:1	50%	500 ml	2.5 l	5 l	10 l
1:2	33 %	333 ml	1.67 l	3.3 l	6.6 l
1:4	20%	200 ml	1 l	2 l	4 l
1:5	17%	166ml	833ml	1.66 l	3.3 l
1:9	10%	100 ml	500 ml	1 l	2 l
1:10	9 %	90 ml	454 ml	910 ml	1.8 l
1:16	6%	60 ml	300 ml	590 ml	1.18 l
1:20	5 %	50 ml	250 ml	500 ml	1 l
1:32	3 %	30 ml	150 ml	300 ml	600 ml
1:40	2.5 %	25 ml	125 ml	250 ml	500 ml
1:50	2 %	20 ml	100 ml	200 ml	400 ml
1:64	1.5 %	15 ml	75 ml	150 ml	300 ml
1:80	1.25%	12 ml	62 ml	125 ml	250 ml
1:100	1 %	10 ml	50 ml	100 ml	200 ml

Pacen me rubu

Pacen ne dong tye kicoyo kany ci dong pe mite ni myero iloki ka irubu yat ma megi.

Lapor, Irubu yat me lita 25 kun nongo itiyo ki 10% nining?

1. Tere ni wek ibed 100% me yat ma ki rubu, imito 10% me yat ki 90% me pii (100-10=90)
2. Wek inong pacen apar me lita 25, kong iloko pacen apar I decimal
3. 10% = 10/100 = 0.1
4. Nyayo man, 0.1x 25 lita = lita 2.5. Man tere ni wek in ibed ki 10% me yat I tank me lita 25 , myero irub lita 2.5 me yat ki lita 22.5 me pii (ma cura ne bedo kuman 25-2.5=22.5, onyo 0.9x25=22.5)

Ka rate me rubu yat pe kimiyo

Ikare mukene,pe kimiyo rate me rubu yat ento ki nyuti wel yat marom mene ma mite I size poto moo ni .ci gin ma dong in myero itim aye myero itam kit ma iromo rubu kede yat ma megi ma kun nongo lube ki la kir yat me ibi tiyo kede.

Lapor: coc ma ikom cupa yat waci ni ikir yat lita 5 pi ekta acel acel, ka itye ki poto 0.4 ekta ki lakir yat ma tank ne tye lita 20 ma ka opong kiro poto 250 msq.

Lita 5 (5000 mls) me yat kiro 10000 sq ms (ekta 1). Man rom ki ml 5000 pi 10000 sqm. Me ngeno ngo ma mite pi sqm 1, pok 5000 ki 10000 keli 0.5ml/sqm.

Ki wek inong wel mamite pi 0.4 ha me poto (4000 sqm), 0.5x 4000=2000mls.

Dong myero I tii cura kit me rubu ne.

Ingeyo ni lakir yat ma megi tero lita 20 ma nongo kiro poto 250 sqm.

Wek kinge well ma mite pi pongo lakir yat ma megi, 0.5ml/sqm x 250sqm=125ml.

Ci dong myero imed mls 125 me yat I lakir yat ma megi ki 19.875 (20 - 0.125 = 19.875) lita me pii.

Wek I tii cura me ngeno tank me lakir yat adii ma imito, pok well yat weng ma imito ipoto ni ki well yat ma pe ki rubu I tank acel acel, 2000/125=16

Man nyutu ni myero ikir tank ma opong ki yat ma kirubu 16 I poto ni me 0.4 ha. Ma nongo gin weng tye ki 125ml me yat ki 19.875 me pii.

Uno How's Basic Factsheet

Ngec mogo ma konyi me tino cura ma megi

Glocary

Lamed	**Man tere tye ni medo jami ariyo nyo makato wek okel nama acel madit, lanyute aye +**
Area	Size me ka moo keken man orume ki boda, labole meca onyo poto. Nen bene cikweya mita
Cura	Me tino gin moni iyoo me cura
Cakamfuren	Lac I gin ma olunge
Komon fackta	Namba ma poko namba mukene iye ariyo ma rom
Loko	Me Loko yoo ma pat pat me pimo jami kun itiyo ki unit ma pat pat labongo loko dite nyo dwong pa gin mo ni.
Kwano	Kwano nama, pim ki acel acel wek inge well ki duc ma tye.
Data	Obedo gin ma cung pi lok me ada nyo wel gin mo ni.
Namba ma tye ki ton	Namba ma tye ki decimol iye. Namba ma tye tung acuc pa ton nyutu but namba moni ki bene nongo pe utunu acel. ma calo dul me apar,miya ki dong alip ki mukene….
Denomineta	Namba ma tye iter purackcon. Man nyutu dwong but namba moni ma namba ma opong ki poko iye.
Dayamita	Man aye bor piny me ngolo I lawala arii kun nongo ikato ki idyere.
Daimencon	Man pimo jami ma tito ki wan pi cep nyo kit ma jami nen kwede. Labole, bor ki lac pa recktengul.
Dijit	Lanyut ma ki tiyo kwede me cung pi namba 0,1,2,3,4,5,6,7,8,9.
Poko/Lapok	Nongo tyen adi ma namba moni donyo I lawote. Poko namba aye obedo olungtuke pa nyayo jami.
Ekwivalen purackon	Purackcon ma tye ki rwom ma rom rom twero coye I yoo ma pol(twero bedo ki numereta ki dinomineta ma pat pat).
Ekwol	Bedo rwom ma rom aroma ileb cura.
Byeko	Nongo ni valu moni tye cok cok ki lagam ma kakare, pol kare ki tam nyo timo cura.
Fomila	Cik me cura ducu ki nyutu pire ki lanyut me cura moni
Purackon	Man aye namba ma pe opong.
Heckta	Man yoo ma pol kare kitiyo kwede me pimo ka bedo ma dongo(Lobole, poto). Heckta (Ha) tye mita cikweya 10,000. Man bene rom ki kabedo ma kirumu ki cikweya ma bute tung acel acel tye mita cikweya 100.
Lapok ma bor	Lapok ma citep ducu myero icoo piny. Man kitiyo kwede me poko namba ma tye ariyo nyo ma kata(ma dit dong kato 10).
Lanya ma bor	Lanyaa ma namba ducu ma imito nyayo dit kato 10 nyo dong tye ki dijit ariyo nyo ma kato.
Komon fackta ma lapiny loyo	Man aye namba ma tidi loyo ma poko dinomineta pa dul purackcon moni. Man weko lamed lakwany ki poro purackcon doko yot.
Pim	Me tiyo dwong nyo wel gin moni, kun itiyo jami ma munu oyubu me pimo gin eno ni(labole pimo bor pa gin moni I cm kun itiyo ki rula).
Lakwany	Kwanyo jami ki ikom lawote. Man bene ki nyutu pire ki lanyut me (-).

Purackcon ma orube	Man tye ki nmaba ma opong kacel ki namba ma pe opong(ki lwomgo purackcon).
Nyayo/Lanya	Man aye yoo me medo moni ikome kene kene tyen ma pol.
Namba ma tye nebatib	Namba ma tye ki valu mere ma pe tunu zero(0), namba man ki nyutu pire ki lanyut me -
Ryeko ne cura	Man obedo kero pa ngat moni me niang ki tic ki namba (ryeko me timo cura)
Numereta	Namba ma tye iwi purackcon.
Pai	Man reciyo ma nyutu wat ikin cakamfuren ki dayamita. Man tye ki namba ma pe loke ma tye 3.142.
Poligon	Man aye jami nyo cep ma pe orwange ento tye ki bute ariyo ma tye ocung atir
Namba ma tye pocitib	Magi aye namba ma tye ki valu ma dit kato zero, ki nyutu pire ki alama me (+)
Dwong pa jami	Rom kwene/pol ata tere ni gin mo tye.
Pacen	Namba ma ki nyutu pire ma calo purackcon pa 100, ki nyutu pire ki lanyut me %.
Medo	Me medo. Man bene obedo nying alama me +
Radiac	Man obedo bor piny me cake ki I dyer lawala ni oo wa itenge.
Raciyo	Man obedo wat ikin dwong pa jami mo ni, ikin namba ariyo nyo makato ma tye ki kitgi ma rom rom ki bene ki nyutu pire ki alama me :
Balany ma dong	Man obedo wel gin ma dong iyoo nge namba meno ki poko ki namba mukene ma opong.
Raunding	Man obedo weko namba doko yot, ka dong pe bene obed ki dijit ma pol.
Weko doko yot	Me dwoko piny(yoo me tiyo cura, purackcon ki mukene…) ki ngolo komon fackta, guru namba odoco ma lube ki jami ma gin tye kwede.
Weko purackon doko yot	Cura me nongo ekwivalen purackcon wek obed ki denomineta ma dong tidi loyo.
Cikweya mita	Unit ma pol kare ki tiyo kwede me pimo kabedo ma tino.
Lakwany	Kwanyo namba moni woko ki ikom lawote ma pol kare nongo dongo loyo ma ki bi kwanyo ni.
Sam	Lok man pol kare tere tye ni timo cura nyo tere ni totol.
Totol	Man aye wel jami ducu ma itye kwede iyoo nge medo nyo nyayo namba ariyo nyo makato.
Wiye	Man tye namba ma opong doko kato 1 ma tye ki valu ma pe tunu 10.
Zero	Man namba ma nyutu ni gin mo peke. Man bene kitiyo kwede madok ikom pimo lyeto pa jami, dwiro pa jami ki bene dong lim nyo cente.