



Helu Kokua A'o

Welcome to the Wonderful World of Learn & Teach

'O ke 'ano o ke a'o 'ana 'o 'A'o a A'o! E a'o i ke ola a pau!

^{st 1} E a'o, i ka ho'omaopopo 'ana, e ho'omaka i ke a'o 'ana. Ma ka ho'ona'auao manuahi wikiwiki a'o nā haumāna i nā haumāna lohi. Ma ka hana, ho'oma'ama'a ka limahana akamai i nā mea hou. Ma ka home, a'o nā kūpuna i nā keiki, nā mo'opuna. A'o nā mākua i nā keiki.

'Ōlelo A'o No ke a'o 'ana a
a'o 'ana 'a'ole wale e noi'i i kēia alaka'i akā i nā 'ano 'ē a'e. I ka loa'a 'ana o kahi 'āpana kākau maika'i Plagiarize 'āpana āu e pono ai a ho'onui i kēia mau mea (pili i nā Scholars and Educators).



Holo: nānā 'ōlelo a me ka nānā 'ōlelo.

Ho'ohui: pono ke kala, nā ki'i a me nā leo.

Heluhelu hō'opia, inā pono e ho'ololi.

Hana i kāu hana 'kuleana kope' a laila ho'olaha.

Nā helu papa kuhikuhi E ho'ohui i ka
papa ~ Helu ~ Helu mana'o ~ Helu-helu kilokilo ~ Ho'ohana helu ~ Helu helu
~ Nā hō'ailona math ~ Ana ~



1 Ke kali nei ke Akua e lohe mai ia oe !

Ho'olaule'a ka pule ho'ona'auao i ka lā ho'ona'auao 6.1.7. NAtm Dear 1 God, Creator of
the most beautiful Universe Kou kahu malama pono haahaa loa
(1 Promises to seek, gain, apply Knowledge all life long To st inoa)
Learn and Teach via Free Education E kāko'o i ka lehulehu Free
Education Pass on Life Experiences to next
generation For ka nani o 1 KE AKUA a me
ka pono o ke kanaka Ho'ohana 'ia kēia pule ma ka
papa a ma ka lā ho'ona'auao



Pāku'i papa'aina

Aia i ka papa ho'ohui 400 mea ho'ohui. Ke hele nei mai ka hema a i ka 'ākau ma kēlā me kēia lālani, a mai luna a lalo i kekahi kolamu, 'oi aku kēlā me kēia helu hou i 1 (+) ma mua o ka helu mua (ka mea hope). He pū'ulu helu ka po'e hope e la'a 0, 1, 2, 3, 4, 5, ... 'O nā pahu i uhi 'ia he mau huahelu 'elua o nā huahelu eg 2+2=4

+	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40

'A'ole i ho'okomo 'ia 'o O (zero); ho'ohui 'O (zero) i kekahi huahelu e hopena i ka helu like. E koho i kahi helu (helu) ma ka laina ho'opa'a luna; e ho'ohui (+) me kahi helu ma ka laina kū pololei hema loa. E ne'e 'ākau ma kēia laina kūpa'a a hiki i ka laina ākea kūpono. E la'a me 3+5=8 Nānā: Ua like ka hopena o 3+5 me 5+3=8 Hiki ke ho'ololi i nā mea ho'ohui.

Heluhelu

He mea nui ka helu a he akua ka 7 !

I ka manawa i ho'omaka ai ke kanaka e ho'ohana i nā helu, ua mākaukau 'o ia e ulu i kāna Destiny: Custodian of the Physical Universe. Nā helu i hana 'ia hiki ke wehewehe a ana i ka nui, ka wikiwiki,..., ka hana 'ana i nā mana'o makemakika. Mana'o nā kahu mālama 'o nā helu he pōhaku kumu nui o ka na'auao o ke kanaka.

'O nā helu ka mana'o makemakika kumu o ke kanaka ho'ohana no ka hana 'ana i nā mana'o makemakika. Ua alaka'i 'ia nā helu i ka 'epekema e hiki ai iā mākou ke holomua a ho'omaopopo i nā mea a ke Akua i hana ai. Ua kūkulu 'o Numbers i nā mo'omeheu a luku iā lākou. Ka pō'aiapuni o "Ho'omaka, Ho'opau a me Recycling".

'Ae 'ia nā helu helu:

Nā manamana lima ma ka lima 1, 2, 3, 4, 5. Ka hopena (hōailona: =) 5 manamana.

'O ka ho'ohui 'ana (hōailona: +) hiki ke ho'ohui 'ia ma mua o 1 mau hopena helu.

Nā manamana lima ma nā lima 'elua $5+5=10$ manamana ma nā lima 'elua.

Lawe 'ia (hōailona: -) hiki ke hō'emi i kahi hopena mua. 1 lima me

Ua 'oki 'ia nā manamana lima 5 (pō'ino): $5-1=4$ mau manamana lima i koe ma ka lima.

'O ka ho'onui 'ana (hōailona: •) hiki ke helu (ma'alahi) i nā helu like

mau mea. Nā manamana lima ma 3 lima $3 \cdot 5$ ('oi aku ka ma'alahi ma mua o $5+5+5$) = 15 manamana lima ma 3 lima. Ke ho'onui pinepine i ka helu like, ho'ohana 'ia kahi kaha no'ono'o: $2 \cdot 2 \cdot 2 \cdot 2 \cdot 2$ (2

⁵ mana o 5) = 32 ka mana lima o 2.

Hiki i nā helu ke hana i kahi Ka'ina o nā helu, 0, 1, 1, 2, 3, 5,

8, 13, 21, 34, 55, 89, 144, 233, ... (hōailona: ...) ma hope o 2 helu mua,

'O kēlā me kēia helu ka huina o nā helu 2 ma mua.

Ho'ohana ka Luna kia'i i ka 'ōnaehana helu kūlohelohē kumu 10. 'O nā hōailona 1 digit i ho'ohana 'ia: 0 (zero), 1 (ho'okahi), 2 ('elua), 3 ('ekolu), 4 ('ehā), 5 ('elima), 6 ('eno), 7 ('ehiku), 8 ('ewalu), 9 ('eiwa). Helu : 0, 2, 4, 6, 8

pono; 1, 3, 5, 7, 9 ua kapaia he odd. Ma hope o 9, ho'ohana 'ia nā huahelu 2 (i kapa 'ia he 10) : 10, 11, 12, 13, 14, 15, 16, 17, 18, 19.

'O ka 0 i kau 'ia ma ka 'ākau o kekahi o nā helu 9 e hana i ka helu helu 2 i kapa 'ia 'o 10's ('umi's), la'a 70. Ua kapa 'ia 'elua 00 he 100's (haneri's),

la'a 700. 'Ekolu 000 i kapa 'ia he 1000 (mau kaukani), la'a 7000. 'O kēlā me kēia 3

Ua ho'oka'awale 'ia nā helu i helu 'ia mai ka 'ākau mai e kahi koma eg 1,000,000 (1 miliona).

'O ka pākēneka (hō'ailona: %) ke 'ano he mau haneli. Hiki ke hō'ike 'ia ka hakina 100 ma ke 'ano he pākēneka e la'a $7/100 = 7\%$ a i 'ole decimal 0.07 (.)

Ho'ohana 'ia kahi kiko e hō'ike i nā koina ma lalo o 1 e la'a me 0.1 (i kapa 'ia 'o Decimal). Hiki ke hō'ike 'ia ka 0.1 (Decimal) ma ke 'ano he hakina me ka ho'ohana 'ana i ka hō'ailona mahele $1/10 \cdot 0.1 = 1/10$ a i 'ole pākēneka

10% Ho'ohana 'ia nā helu ma ka ho'olālā geometric: Triangle 'ao'ao 3, 'ao'ao 4 Rectangular, Square, 5 'ao'ao. Pentagon, 6 'ao'ao Hexagon, 7 'ao'ao Hepta-gon (hō'ailona o 1 FAITH), 8 'ao'ao Octagon. Pāha² (2 mana), Cube³ (3 mana'o), Cone, Cylinder...



He akua ka 7 no ka mea, ua lawe 'o 1 GOD 7 lā * no ka hana 'ana i ke Kino Uni-verse a me ke Kanaka. 6 lā hana + 1 lā ho'omaha = 1 pule.

*Meka! 1 He 'oko'a ka pule a ke Akua mai ka pule CG Kalender.

Lā 1

La 2 midweek La 4

Lā 5 hopena pule Le'ale'a-lā

1 Makemake ke Akua i 7 Lahui. Ma muli o 7 mau 'āpana ~ 1 FAITH ma muli o 7 'ōwili ~ hō'ailona: Heptagon (7 'ao'ao, 7 kihi)

1 Church: Universe Custodian Guardians he 7 kū'oko'a aupuni panalā'au (Oracle)~ 7 Evils are human Failings, the 'Chain of Evil'

has 7 links ~ 7_7 Rule: a committee of equal representation 7 HE a me 7

SHE ~ Numbers meaning 0 Out of aohe mea 1 hana ke Akua i ke ao kino. 'O Zero

ka helu o ka hana. Negative: 'O

Zero ka helu o ka luku.

1 'O ka ho'omaka, 'o ia ka mua, 'o ka 1 a wale nō. 1 KE AKUA 1 MANAOIO 1 Ekalesia.

Negative: 'O ka hopena, 'o ia ka hope, endangered. 'O ka nui.

2 Harmony, Ka mare hemolele, ka mare, na mahoe.

Negative: Anarchy, separating, pornography, celibacy.

3 Huinakolu manawa, 3 kia hoomana (1 GOD 1 FAITH 1 Church).

Negative: 3 he lehulehu, ho'omana, olai. 4 4 kau (ke

puna, ke kauwela, ke kau, ka hooilo) o ka makahiki, quattro

makahiki, 4 kuhikuhi (akau, hikina, komohana, hema), 4 mau mea (ahi, wai, honua,

ea), huinahalike, cube, na rula i kukuluia. Negative: chaos, huikau 'a'ohe lula, nele i ka

pili, ke kānāwai o Murphy.

5 Hio, paonia, hoomau, hana.

Negative: pale, ka'ahele, mana'o'ole.

6 Pū'ulu, kaiaulu, kaulike pilikanaka, kia'i kaiāulu, hale pule.

Negative: Hermit, ka'awale, elitist, waiwai apartheid, nā hui.

7 1 'O ka 'ōlelo hou a ke Akua 'o ke kānāwai Hā'awi Hō'ike, No'ono'o, IP (waiwai na'auao), wānana. 'A'ohē: No'ono'o, mana'o mana'o, nā leka ho'opunipuni, kope kope, patent.

8 Pono, ala 'oihana, kuleana, hilina'i. 'ino: Lawlessness, nele i ka hana, makua ole, hewa, wahahēe.

9 Pilikanaka, 'oli'oli, aloha, kama'ilio lehulehu. 'ino: Loner, huhu, olelo ole.

1 Ke kali nei ke Akua e lohe mai ia oe !

Pule Helu Aloha 1 ke Akua,

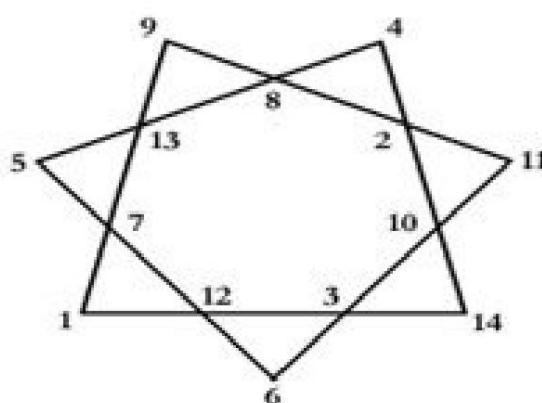
Oka 1 hooiaio 6 LGM

ka mea nana i hana i ka honua nani loa Kou kahu malama
 pono haahaa loa (1 Mahalo iā 'oe no nā helu Helu kōkua iā st inoa)
 mākou e ho'omaopopo i nā

helu o ke ao holo'oko'a e kōkua ai i nā kuleana kahu
 kia'i Nā helu no ka ho'oulu 'ana a me ka le'ale'a no ka nani
 o 1 ke Akua. a me ka pono o ke kanaka Hoohanaia
 keia pule i ka wa e pono ai !



Helu kupua



Ho'okomo 'ia nā helu Heptagram Magic
 ma kēlā me kēia o nā vertices a me nā
 'āpana i hiki i nā helu 4 ma kēlā me
 kēia laina ke helu 30 !



E hana i ka hōkū lā heptagon kilokilo 7?

'O ka le'ale'a i nā square magic ka 'oia'i'o i kēlā me kēia ala e helu ai
 Ho'ohui 'ia kahi huinaha: ma ke kū pololei (v), ma ke alo (h) a i 'ole ka diagonal (d)
 ua like ka hopena.

Magic squares

Nā huinahā kilokilo me nā helu 9, 16, 25

Magic Squares			v34	v34	v34	v34	d34
v15	v15	v15	d15	16	3	2	13
8	1	6	h15	5	10	11	8
3	5	7	h15	9	6	7	12
4	9	2	h15	4	15	14	1
			d15	4 corners = 34			
v65			v65	v65	v65	d65	
11	24	7	20	3		h65	
4	12	25	8	16		h65	
17	5	13	21	9		h65	
10	18	1	14	22		h65	
23	6	19	2	15		h65	
			4 corners + middle = 65				d65

E hana i kahi huinahā 49?

Challenge

Ho'ohana helu

A: Aia nā helu 'ē a'e he 1, 3, 5, 7, 9, a me nā helu a pau nona ka eli hope-o ia kekahi o kēia.

B: Aia nā helu like me 0, 2, 4, 6, 8, a me nā helu hope loa helu kekahi o ia mau mea.

C: Loa'a nā helu holo'oko'a i nā helu 'oko'a a me nā helu like.

D: He 'ōnaehana helu kumu 2 nā helu binary me ka ho'ohana 'ana i nā hōailona 2, 0, 1.

E: Pākēneka (%) no ka loa'a 'ana o 15 % o ka 50 e ho'onui i ka % a me ka pu'unauae helu me 100 = 7.5! $15 \cdot 50 : 100 = 7.5$

E wehewehe i ka % hā'awi 'ia ma ke 'ano he hakina, e ho'onui i ka $15 \cdot 100 / 100 = 15$

E hō'ike i ka % i hā'awi 'ia ma ke 'ano decimal, e ho'onui i ka $0.15 \cdot 100 = 15$

F: Pono ka hakina 3 no ka hoohuli ana i ka 15 % i ka hakina ma'amau $3 / 20 : 1$. e haalele i ka hoailona %. 2. puunaue i $100 - 15 / 100$. 3. hoemi

i nā hua'ōlelo ha'aha'a _ 3 / 20 .

G: Ho'ololi 'o Decimal i 15% i decimal. Ha'alele i ka hō'ailona %. A laila, ho'one'e i ka helu decimal o ka % 'elua mau wahi i ka

hema = 0.15 **H:** Nature sequence numbers e 'ae i ka hana 'ana i ke ka'ina o nā helu e la'a 0, 1, 1, 2, 3 ... ma hope o 2 mau helu mua, 'o kēlā me kēia helu ka huina o na helu 2 mua.

I: Nā huahelu prime , loa'a iā lākou (**nā helu holo'oko'a** i pu'unaue 'ia e lākou iho) Eg e huli i nā helu prima a pau i ka 20. E papa inoa i nā helu a pau mai ka 2 a hiki i ka 20. Hō'ike i ka 2 e ha'alele i nā huina a pau o 2. E hō'ailona i ka helu a'e (3) 'a'ole. i hō'ike 'ia i ka mālama 'ole 'ana i kāna mau mea he nui. E hana hou a hiki i ka hopena o ka papa inoa. 'O nā primes nā helu i hō'ike 'ia. 2,3,5,7, 11, 13,17, 19,

J: Ho'okumu 'ia nā helu Roma ma kekahi mau huapalapala o ka pī'āpā i hui 'ia e hō'ike i ka huina a 'oko'a paha o ko lākou mau waiwai.

1 I, 2 II, 3 III, 4 IV, 5 V, 6 VI, 7 VII, 8 VIII, 9 IX, 10 X, 11 XI, 12 XII,....

20 XX, 30 XXX, 45 XLV, 50 L, 76 LXXVI, 100 C, 500 D, 1000 M.

Waiwai helu

0 > Zero

1 > Hookahi

5 > Elima

7 > Ehiku

10 > umi

50 > Kanalima

100 > Haneri

500 > Elima haneri

1,000 > Tausani

5,000 > Elima tausani

10,000 > umi tausani

50,000 > Kanalima tausani

100,000 > Haneri tausani

500,000 > Elima haneri tausani

1,000,000 > Miliona

10,000,000, > umi miliona

100,000,000 > Haneri miliona

1,000,000,000 > Miliard

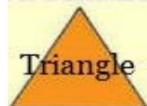
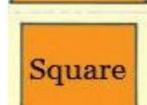
10,000,000,000 > 'umi miliona

100,000,000,000 > Haneri miliona

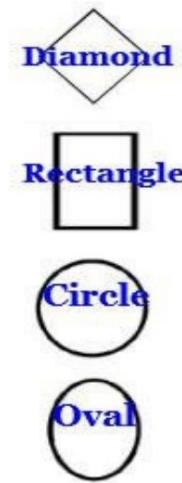
1,000,000,000,000 > Piliona
 10,000,000,000,000 > 'umi piliona
 100,000,000,000,000 > Haneri piliona
 1,000,000,000,000,000 > Trilliona
 10,000,000,000,000,000 > 'umi trillion
 100,000,000,000,000,000 > Haneri trillion
 1,000,000,000,000,000,000 > Zillion
 10,000,000,000,000,000,000 > 'umi zillion
 100,000,000,000,000,000,000 > Haneri zillion

Hoomaopopo ! Mai ka 'ākau a i ka hema, kau 'ia kahi koma ma hope o kēlā me kēia 3rd huahelu.

Mathematical symbols

= hopena like me	'a'ole like me	like like me	
+ ho'ohui i nā hui 'oi aku ma mua o 1 mau hopena helu			 Triangle
- ho'emi ka lawe 'ana i kahi hopena mua			 Square
± ho'onui a hō'emi paha	hō'emi a ho'ohui paha		 Pentagon
• a i 'ole x ka ho'onui 'ana (ma'alahi) ka helu 'ana i nā huina like mau mea			 Hexagon
÷ ka puunaue ana i ka mahele o ka hopena mua			 Heptagon
> 'oi aku ma mua	< emi iho		 Octagon
o like a 'oi aku paha ma	like a emi mai paha		 Nonagon
≠ mua o ka %	≠ aole emi mai		 Decagon
~ pākēneka	% permil		
ua like me ka	ua like ia me		
Ω Omega, ka huina o na hoonui kumu kumu a pau			
pili i ka π Pi, hua	Delta, 'oko'a		
o kumu	Sigma, huina o		
huinahalike []	{ } nā pale lima, ka ho'onohonoho hakahaha		
mau pale huinahalike	, } ho'onohonoho o (specify)		
() pale.	{ {...} a pēlā aku, ho'onohonoho palena 'ole		
nolaila	no ka mea, mai		

'āpana	ho'onomohonoho nui
mea o	'a'ole mea o
Ø ho'onomohonoho	U ho'onomohonoho honua
hakahaka	ho'ohui hui pū 'ia
integral	ho'ohui 'ia o ka 'ili
hui pū 'ekolu	ho'ohui i ka leo pani



Nā ana

Ho'ohana ka Luna kia'i i nā kūlana Makahiki Hou (**NAs**) e ana. He mana metric hou. He lawelawe kaiāulu UCG.

Ka lō'ihi kumu : **mika (m)** ~

'Āpana kumu 'āpana : **mika square-mika (m²)** ~ 3 D mika (**m³**) ~

Puke kumu Volume : **lita (l)** ~

Kaumaha kumu 'āpana: **gram (g)**

Ana prefix. E ho'ohana i nā prefix i ka nui no nā mana maika'i.

Mana Hoailona Prefix [] Waiwai

Yotta Y 10 10 [24] 1,000,000,000,000,000,000,000,000

Zetta Z 10 [21] 1,000,000,000,000,000,000,000

Exa E Peta [18] 1,000,000,000,000,000,000

10 [15] 1,000,000,000,000,000

Tera T 10 [12] 1,000,000,000,000

Giga G 10 [9] 1,000,000,000

Mega M 10 [6] 1,000,000

Myria Ko'u 10 [4] 10,000

Kilo K 10 [3] 1,000

Hecto H 100 10 [2]

Deka D 10 [0] 10 [1] 10

kumu b deci 10 [-1] 1

keneta 10 [-d] 0.01 0.1

c

mili m 10 [-3] 0.001

micro μ 10 [-6] 0.000,001

nano n	10 [-9]	0.000,000,001
pico p femto f	10 [-12]	0.000,000,000,001
atto zepto z	10 [-15]	0.000,000,000,000,001
yocto a	10 [-18]	0.000,000,000,000,000,001
y Length Base	10 [-21]	0.000,000,000,000,000,000,001
unit: mika (m)	10 [-24]	0.000,000,000,000,000,000,000,001

~ li'ili'i hua prefixes he () waiwai o

kumu. [0] Hō'ike nā pale i ka waiwai o ka mana. Ka mamao ma waena o 2 helu. Eg
0..ā..10 = 10

Mana Hoailona Prefix [] Waiwai

1 Yotta	Ym	10	[24]	1,000,000,000,000,000,000,000,000		
1 Zetta	Zm	10	[21]	1,000,000,000,000,000,000,000,000		
1 Exa	Em	10	[18]	1,000,000,000,000,000,000		
1 Peta	Pm	10	[15]	1,000,000,000,000,000		
1 Tera	Tm	10	[12]	1,000,000,000,000		
1 Giga	Gm	10	[9]	1,000,000,000		
1 Mega	Mm	10	[6]	1,000,000		
1 Myria	Mym	10	[4]	10,000		
1 Kilo	Km	10	[3]	1,000		
1 Hecto	Hm	10	[2]	100		
1 Deka	Dm	10	[1]	1 mika	m	10
[0] 1 deci	dm	10	[-1]	1 keneta	1	
knm	10	[-2]	0.01	0.1		

- 1 mili mm 10 [-3] 0.001
- 1 micro μm 10 [-6] 0.000,001
- 1 nano nm 10 [-9] 0.000,000,001
- 1 pico pm 10 [-12] 0.000,000,000,001
- 1 femto fm 10 [-15] 0.000,000,000,000,001
- 1 ma ka hola 10 [-18] 0.000,000,000,000,000,001
- 1 zepto zm 10 [-21] 0.000,000,000,000,000,000,001
- 1 yocto ym [-24] 0.000,000,000,000,000,000,000,001

‘āpana mikā pāha‘ī : **mikā (m²)** ~ nā prefix hua li‘ili‘i he () waiwai o kumu. [0] Hō‘ike nā pale i ka waiwai o ka mana. **Ka laula, ka laula o kahi wahi i hoonuiia . Eq 10 • 10 = 100 m²**

Mana Hoailona Prefix [] Waiwai

1 Yotta Ym² 10 [24] 1,000,000,000,000,000,000,000,000

1 Zetta Zm^2 10 [21] 1,000,000,000,000,000,000,000

1 Exa Em^2 10 [18] 1,000,000,000,000,000,000,000

1 Peta Pm^2 10 [15] 1,000,000,000,000,000

1 Tera Tm^2 10 [12] 1,000,000,000,000

1 Giga Gm^2 10 [9] 1,000,000,000

1 Mega Mm^2 10 [6] 1,000,000

1 Myria Mym^2 10 [4] 10,000

1 Kilo Km^2 10 [3] 1,000

1 Hecto Hm^2 10 [2] 100

1 Deka Dm^2 10 [1] 1 mika m^2 10 10

[0] 1 deci dm^2 10 [-1] 1 keneta 1

cm^2 10 [-2] 0.01 0.1

1 mili mm^2 10 [-3] 0.001

1 micro μm^2 10 [-6] 0.000,001

1 nano nm^2 10 [-9] 0.000,000,001

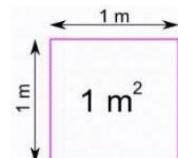
1 pico pm^2 10 [-12] 0.000,000,000,001

1 femto fm^2 10 [-15] 0.000,000,000,000,001

1 mai am^2 10 [-18] 0.000,000,000,000,001

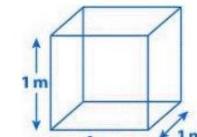
1 zepto zm^2 1 10 [-21] 0.000,000,000,000,000,001

1 yocto ym^2 10 [-24] 0.000,000,000,000,000,000,001



huinaha
mika
(m^2)

Cubic
mika
(m^3)



‘Āpana mika kubiko : **mika (m^3)** ~ hua mua hua li’ili’i he () waiwai o kumu. [0] Hō’ike nā pale i ka waiwai o ka mana. Ka laula, ka laula, ka hohonu o kahi wahī māhuahua . Eg $10 \cdot 10 \cdot 10 = 1000 \text{ m}^3$

Mana Hoailona Prefix [] Waiwai

1 Yotta Ym^3 10 [24] 1,000,000,000,000,000,000,000,000

1 Zetta Zm^3 10 [21] 1,000,000,000,000,000,000,000,000

1 Exa Em^3 10 [18] 1,000,000,000,000,000,000,000,000

1 Peta Pm^3 10 [15] 1,000,000,000,000,000

1 Tera Tm^3 10 [12] 1,000,000,000,000

1 Giga Gm^3 10 [9] 1,000,000,000

1 Mega Mm^3 10 [6] 1,000,000

1 Myria Mym^3 10 [4] 10,000

1 Kilo Km^3 10 [3] 1,000

1 Hecto Hm ³ 10 [2]	100
1 Deka Dm ³ 10 [1] 1 mika m ³	10
10 [0] 1 deci dm ³ 10 [-1] 1	1
keneta cm ³ 10 [-2] 0.01	0.1
1 mili mm ³ 10 [-3] 0.001	
1 micro µm ³ 10 [-6] 0.000,001	
1 nano nm ³ 10 [-9] 0.000,000,001	
1 pico pm ³ 10 [-12] 0.000,000,000,001	
1 femto fm ³ 10 [-15] 0.000,000,000,000,001	
1 mai am ³ 10 [-18] 0.000,000,000,000,001	
1 zepto zm ³ 1 10 [-21] 0.000,000,000,000,000,001	
yocto ym ³ 10 [-24] 0.000,000,000,000,000,000,001	

Volume Base unit: **lita (l)** ~ li'ili'i hua prefix he () waiwai o ke kumu.

[0] Hō'ike nā pale i ka waiwai o ka mana. Volume ma waena o 2 ana. Eg 0..ā..10 = 10

Mana Hoailona Prefix [] Waiwai

1 Yotta Yl 10 [24]	1,000,000,000,000,000,000,000,000
1 Zetta Zl 10 [21]	1,000,000,000,000,000,000,000,000
1 Exa El 10 [18]	1,000,000,000,000,000,000,000
1 Peta Pl 10 [15]	1,000,000,000,000,000
1 Tera Tl 10 [12]	1,000,000,000,000
1 Giga Gl 10 [9]	1,000,000,000
1 Mega Ml 10 [6]	1,000,000
1 Myria Myl 10 [4]	10,000
1 Kilo Kl 10 [3]	1,000
1 Hecto Hl 10 [2]	100
1 Deka Dl 10 [1] 1 lita 10 [0]	10
10 [-1] 10 [-2] 0.01	1
1 deci dl 1	0.1
centi cl 1 mili	
ml 1 micro µl	10 [-3] 0.001
1 nano nl 1	10 [-6] 0.000,001
pico pl 1	10 [-9] 0.000,000,001
femto fl 1 atto	10 [-12] 0.000,000,000,001
al 1 zepto zl	10 [-15] 0.000,000,000,000,001
	10 [-18] 0.000,000,000,000,000,001
	10 [-21] 0.000,000,000,000,000,000,001

1 yocto yl



10 [-24] 0.000,000,000,000,000,000,000,001

Volume

(l)

Kaumaha

(g)



Weight Base unit: **gram (g)** ~ li‘ili‘i hua prefix he () waiwai o kumu. [0] Hō‘ike nā pale i ka waiwai o ka mana. Kaumaha ma waena o 2 ana. Eg 0..ā..10 = 10

Mana Hoailona Prefix [] Waiwai

1 Yotta Yg	10 [24]	1,000,000,000,000,000,000,000,000,000
1 Zetta Zg	10 [21]	1,000,000,000,000,000,000,000,000,000
1 Exa Eg	10 [18]	1,000,000,000,000,000,000,000,000,000
1 Peta Pg	10 [15]	1,000,000,000,000,000,000,000,000,000
1 Tera Tg	10 [12]	1,000,000,000,000,000,000,000,000,000
1 Giga Gg	10 [9]	1,000,000,000,000,000,000,000,000,000
1 Mega Mg	10 [6]	1,000,000,000,000,000,000,000,000,000
1 Myria Mg	10 [4]	10,000
1 Kilo Kg	10 [3]	1,000
1 Hecto Hg	10 [2]	100
1 Deka Dg	10 [1]	10
1 kalama g 1	10 [0]	1
deci dg 10 [-1] 1 keneta cg 10		0.1
[-2] 0.01		
1 mili mg 10 [-3]	0.001	
1 micro µg 10 [-6]	0.000,001	
1 nano ng 1	10 [-9]	0.000,000,001
pico pg 10 [-12]	0.000,000,000,001	
1 femto fg 10 [-15]	0.000,000,000,000,001	
1 a hiki i ka	10 [-18]	0.000,000,000,000,000,001
1 zepto zg 10 [-20]	0.000,000,000,000,000,000,001	
1 yocto yg	10 [-24]	0.000,000,000,000,000,000,000,001

PS-1 (**Packaging-standard**) uhi i ka pono o ka mea kū‘ai: pono oluolu i ho‘ohālikelike i ka nui o nā huahana', packaging. Hiki ke hana hou ‘ia ka ‘eke.

Pono ke aupuni e ho‘ohālikelike i ka nui o ka waihona: pa‘a (**gram, Kg**), wai (**lita**). Pono e pili ka ma‘amau i ka ‘oihana, ‘oihana a me ho‘opili pilikino. Pono e hana hou ‘ia ka ‘eke.

Universe Custodian Guardian Packaging Standard Table.

‘O nā paona pa‘a (**g, Kg**) a me nā paona wai (**l**) hiki ke ho‘opili wale ‘ia, pu‘unaue ‘ia.

uted, kuaiia ma na nui 14 i hoikeia ma ka papa.

10 mg > 20 mg > 50 mg > 100 mg
 200 mg > 500 mg > 1 g > 10 g > 50 g
 100 g > 200 g > 500 g >
 1 Kg > 2 Kg > 5 Kg > 10 Kg > 50 Kg
 100 Kg > 500 Kg > 1000 Kg > 2000 Kg



10 ml > 20 ml > 50 ml > 100 ml
 200 ml > 500 ml >
 1 l > 10 l > 50 l > 100 l > 200 l
 500 l > 1000 l > 2000 l

Ke alaka'i 'ana i nā mea kū'ai: Pono nā paona wai e hō'ike i ke kumukū'ai no 1 kg, 1 l e ho'ohālikelike i nā kumukū'ai + ke kaumaha maoli a me ke kumukū'ai. Ho'opili 'ia pono e hana hou ia.

'O kahi huahana me ka ha'aha'a kg, I kumu kū'ai 'o 'Bargain'.

Hā'awi nā 'oihana waiwai i ka hewa hewa 'Deceitful Pack-aging (**fraud**)'. Pono nā mea kū'ai aku i ka palekana mai ka ho'opunipuni, ka mana'o'i'o, 'oihana waiwai, nā mea hana hewa, nā mea hana a me nā mea kū'ai aku e ho'ohana nei 'Ho'opili ho'opunipuni' (nā ma'i'o ho'oha'aha'a i ka nui) e ho'ohana pono ('oki 'ia) o na mea kuai. Kāko'o 'o MS R3 i ka PS-1 Packaging standard a pa'a i nā mea ho'opunipuni ho'opunipuni hiki ke helu 'ia.

Nā La'ana: Loa'a kahi huahana mea hana i loko o kahi pū'olo 0.440 kg me kā lākou lepili. Ho'opili 'ia ka huahana like me nā mea kū'ai aku home brand, akā ua ho'emi 'ia ka 'ikepili i ka 0.415 kg. 'o kēia i hana 'ia i hiki i ka mea kū'ai aku ke kū'ai aku i kā lākou home brand ma ke kumu kū'ai ha'aha'a ma mua o ka brand mea hana. He ho'opunipuni kēia, ho'opunipuni a puni e ho'opunipuni i ka mea kū'ai aku i ka no'ono'o 'ana he kū'ai kū'ai ka brand home-no ke kumu kū'ai ha'aha'a. I ka 'oia'i'o, no ka mea, emi ka mea kū'ai 'A'ohe mea ho'opakele a i kekahī manawa pau ka mea kū'ai aku e uku hou aku.

'O ka 2 Ke kū'ai aku nei ka mea hana ma ke kumu kū'ai ha'aha'a, ua like kona huahana me kahi bar-gain. No ka mea he li'il'i ka huahana i ka nd 2nd pono ia i laila-e kū'ai mua aku no ka emi mai, 'a'ole e ho'olilo hou ia i mea kū'ai. 'O ka 2nd Mana'o ka mea hana ma ke 'ano ho'opunipuni, ho'opunipuni a me ka mana'o 'ole, 'a'ole e nānā ka mea kū'ai i ke kaumaha no ka mea ua like kona 'ano me ka nā huahana ho'okūkū.

Hele pinepine mai ka Packaging me ka li'il'i ma mua o ka piha piha (**o ka oversized packag-ing**). 'O kēia ho'opunipuni ka mana'o e ho'opunipuni i nā mea kū'ai aku i ka mana'o'i'o e loa'a iā lākou

'oi aku ka loa'a iā lākou!

Pono ke aupuni e ho'ohālikelike i ka nui o ka waihona: pa'a (gram, Kg) a me ka wai (lita). Pono e pili ka ma'amau i ka pā'oihana, 'oihana a me ka ho'opili pilikino. Pono e hana hou 'ia ka 'eke.

Code Morse

He ala i ho'ohana 'ia ma ke kelepona. Ka lō'ihi o ka hō'ailona: dot, dash!

'O 1 'āpana ka lō'ihi o kahi kiko! 'O Dash he 3 'āpana! 'O ka mamao ma waena o nā 'āpana o ka leka ho'okahi he 1 'āpana. Wahi ma waena o nā leka 3 'āpana. 'O ka mamao ma waena o nā hua'ōlelo he 7 'āpana.

A	• —	M	— — —	Y	— — • — —
B	— — • • •	N	— — •	Z	— — — • •
C	— — • — •	O	— — — —	1	• — — — —
D	— — • •	P	• — — — •	2	• • — — —
E	•	Q	— — — • —	3	• • • — —
F	• • — — •	R	• — — •	4	• • • • —
G	— — — •	S	• • •	5	• • • • •
H	• • • •	T	—	6	— — • • •
I	• •	U	• • — —	7	— — — • • •
J	• — — — —	V	• • • — —	8	— — — — • •
K	— — • —	W	• — — —	9	— — — — — •
L	• — — • •	X	— — • • —	0	— — — — — —

'O SOS kahi hō'ailona hō'ailona hō'ailona Morse code

sos

8 8 8 [REDACTED] [REDACTED] [REDACTED] 8 8