



Tautoko Ako Tau

Welcome to the Wonderful World of Learn & Teach

Ko te tikanga ako ko 'Ako me te Whakaako'! Akohia te oranga katoa!

1stAko, ka marama, timata ki te whakaako.I roto i te maatauranga kore utu ka ako nga akonga tere ki te ako puhoi.I te mahi ka whakangungu te kaimahi mohio i nga tangata hou. I te kainga, ka ako nga koroua i nga tamariki, nga mokopuna. Ka ako nga matua i nga tamariki.

Tohutohu ako

I te wa e ako ana, e whakaako ana ranei kua e rangahau noa i tenei aratohu engari he maha atu ano.I te wa e rapu ana koe i tetahi waahanga tuhi paiPlagiarizenga waahanga e hiahia ana koe me te whakawhānui ake i enei(e pa ana ki nga Tohunga me nga Kaiako).



Whakahaere:taki takikupu me te taki wetereo. Tāpiri:te tae, nga whakaahua me nga ororongo i hiahiatia.
Panui panui, mena e tika ana me whakarereke. Mahia to mahi 'Mana pupuri kore utu' ka whakaputa.

WhaiarongaTau

Tāpiri ripanga ~ Tau ~ Tau tikanga ~ Tau makutu ~ Whakamahinga tau ~ Uara tau ~ Tohu Math ~ Ine ~



1 Kei te tatari te Atua kia rongo mai koe!

MātaurangaTe pure WhakanuiaTe Ra Mātauranga 6.1.7.NAtm

Arohanui**1 te Atua**, Kaihanga o te Ao tino ataahua To koutou kaitiaki pono tino whakaiti(1stingoa) He oati ki te rapu, ki te whiwhi, ki te whakamahi i te Matauranga mo te wa roa Ki te Ako me te Whakaako ma te Matauranga Koreutu



Hei tautoko i te matauranga kore utu mo te iwi
Tukuna atu nga wheako ora ki nga reanga e whai ake nei
Mo te Kororia o1 TE ATUAME te Pai o te Tangata

Ka whakamahia tenei karakia i roto i te karaehe me te Ra Matauranga



Tāpiri tepu

Kei roto i te ripanga taapiri e 400 nga taapiri. Ka haere mai i te mau ki te taha matau i tetahi rarangi, mai i runga ki raro ranei i tetahi pou, he 1 ake ia tau hou(+)atu i te tau o mua(kaimuri). Ko nga kairiiwhi he raupapa tau hei tauira 0,1,2,3,4,5, ... Ko nga pouaka whakamarumarua he taurua o nga mati penei $2+2=4$

| | | | | | | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| + | 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 |

O(kore)kaore i whakauruhia; taapiri O(kore)ki tetahi tau ka puta he tau kotahi. Tīpakohia he tau(mati)i runga i te raina whakapae; tāpiri(+) me te tau kei te taha mau ki te raina poutū. Nuku matau i runga i tenei raina poutū kia tae ra ano te rarangi whakapae e tika ana. Hei tauira $3+5=8$ **Tuhipoka:** He rite te hua o te $3+5$ ki te $5+3=8$ Ka taea te whakawhiti taapiri he rite tonu te hua.

Tau

Tauhe mea nui me 7 he atua!

I te wa i timata ai te tangata ki te whakamahi i nga nama kua reri ki te huri ki tona Destiny: Kaitiaki o te Ao Tinana. Na te nama i taea te whakaahua me te ine i te rahinga, te tere, ..., te hanga ariā pangarau. E whakapono ana nga Kaitiaki Tiaki ko nga nama te kohatu kokonga nui o te hinengaro o te tangata.

Ko nga tau te kaupapa o te ariā pangarau e whakamahia ana e te tangata ki te hanga ariā pangarau ake. I ahu mai nga nama ki te putaiāo e taea ai e tatou te anga whakamua me te maarama ake **1 TE ATUA** nga mea hanga. Na Numbers i hanga nga ao me te whakangaro ia ratou. Ko te huringa o te "Timatanga, Whakamutunga me te Hangarua".

Nga nama e whakaaetia ana te tatau:

Maihao i te ringa 1, 2, 3, 4, 5. Hua (tohu: =) 5 maihao.

Te taapiri (tohu: +) taea ki te hanumi neke atu i te 1 hua tatau. Maihao ki nga ringa $25 + 5 = 10$ maihao ki nga ringa e rua.

Tangohia atu (tohu: -) taea ki te whakaiti i te hua o mua. Ko te ringa kotahi me nga maihao e 5 kua tapahia te maihao kotahi (aituā): $5 - 1 = 4$ maihao ka toe ki te ringa.

Whakareatia (tohu: •) tuku (maamaa ake) te tatau i te maha o nga mea rite. Maihao ki nga ringa $33 \cdot 5$ (he ngawari ake i te $5 + 5 + 5$) = 15 maihao ki nga ringa e 3. Ina whakareatia te tau kotahi a **Manatohu** ka whakamahia: $2 \cdot 2 \cdot 2 \cdot 2 \cdot 2$ (2 mana o 5) = 32 te mana tuarima o te 2.

Ka taea e nga nama te hanga a **Raupapao** nga tau, 0, 1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89, 144, 233, ... (tohu: ...) i muri i te 2 tau tuatahi, ko ia tau te tapeke o nga tau e 2 o mua.

Ka whakamahia e te Kaitiaki Tiaki te punaha nama 10. Ko nga tohu mati 1 i whakamahia: 0 (kore), 1 (kotahi), 2 (rua), 3 (toru), 4 (wha), 5 (rima), 6 (ono), 7 (e whitu), 8 (waru), 9 (iwa). Tau: 0, 2, 4, 6, 8 ka kiia he rite; 1, 3, 5, 7, 9 ka kiia he odd. Whai muri i te 9, 2 mati (ka karangahia 10's) ka whakamahia: 10, 11, 12, 13, 14, 15, 16, 17, 18, 19.

Ko te 0 ka whakanohoia ki te taha matau o tetahi o nga tau 9 ka hanga he tau mati 2 e kiia nei ko te 10's (tekau), hei tauira 70. Rua 00 ka kiia ko 100's (ngā rau), hei tauira 700. Torutoru 000 ka kiia ko 1000's (mano), hei tauira 7000. Ko ia tau e 3 ka tatauhia mai i te taha matau ka wehea e te pikohei tauira 1,000,000 (1 miriona).

ōrau(tohu:%)tikanga rau.Ka taea hoki te whakaatu te hautau 100
hei **ōrau**hei tauira $7/100 = 7\%$ ā-ira ranei 0.07

(.)Ka whakamahia he ira hei whakaatu uara iti iho i te 1 hei tauira 0.1(ka karangahia
te ira). 0.1(Iraira)ka taea hoki te whakaatu hei hautau ma te whakamahi i te tohu
wehenga $1/100.1 = 1/10$ ōrau ranei 10%

Ka whakamahia nga nama ki te hoahoa ahuahanga:Tapatoru 3 taha,
Tapawhā tapawhā 4, Tapawhā, Taparima 5 taha, Hexagon 6 taha, 7-sided
Heptagon(tohu o 1 WHAKAPONO), 8 taha Octagon. Tapawhā²(2 ahu),
Matapihi³(3 ahu), Koekoe, Porotakaro...



7he atua no te mea i mau **1 ATUA 7**nga ra*ki te hanga i te Ao
Tinana me te Tangata. $6 \text{ rā mahi} + 1 \text{ rā whakatā} = 1 \text{ wiki}$.

* **Tuhipoka! 1 TE ATUA**she rereke te wiki mai i te wiki CG Kalender.

Ra 1 Ra 2 waenganui wiki Ra 4 Ra 5 wiki Ra ngahau

1 TE ATUAhiahia 7 Nga iwi. E 7 nga Porowini~

1 WHAKAPONO i runga i 7 Panuku~tohu. Heptagon(7 taha, 7 koki) 1
Hahi: E 7 nga whakahaere porowini motuhake a nga Kaitiaki o te
Ao(Orackle)~

7 Ko nga kino he he o te tangata, Ko te 'Chain of Evil' e 7 nga
hononga~ 7_7 Ture: he komiti e rite ana te ahua 7 HE me 7 SHE~

Tautikanga

0Mai i te kore **1 TE ATUA**hanga te Universe tinana. Ko Zero te
te maha o te hanganga. He kino: Ko te kore te maha o te whakangaromanga.

1Ko te timatanga, ko te tuatahi, ko te 1 me te anake. **1 TE ATUA 1 WHAKAPONO 1 Hahi**.
He kino: Ko te mutunga, ko te whakamutunga, kei te tata. Ko te tini.

2Harmony, Holy matrimony, mating, mahanga.

He kino: Ko te weriweri, ko te wehewehe, ko te karekau, ko te noho takakau.

3Tapatoru taima, 3 nga pou karakia(**1 TE ATUA 1 WHAKAPONO 1 Hahi**).

He kino: Ko te 3 he mano, he karakia, he ru.

44 taima(koanga, raumati, ngahuru, takurua) o te tau, quattro

tau, 4 ahunga(te raki, te rawhiti, te hauauru, te tonga), 4 huānga(ahi, wai, whenua, hau),
tapawha, poraka, ture hanganga. He kino: te hepohepo, te rangirua kahore he ture, te kore
o te whakakotahitanga, te ture a Murphy.

5 Te tirohanga, te paionia, te manawanui, te mahi.

He kino: aukati, roving, taunga.

6 Te roopu, te hapori, te tika o te hapori, te mataaratanga tata, te whare karakia.

He kino: Hermit, wehe, elitist, taonga apartheid, roopu.

7 Te poroi hopea a te Atua, Te Homai Ture, Whakaaroaro, IP (taonga hinengaro), poropiti. He kino: Te wawata, te wawata, nga karere rūpahu, te mana pupuri, te patent.

8 Te tika, te huarahi mahi, te kawenga, te whakawhirinaki. He kino: Kore ture, he kore mahi, he pakeke, he pirau, he teka.

9 He tangata whakahoahoa, he harikoa, he hoa, he korero mo te iwi. He kino: Mokemoke, karekau, kare e korero.

1 Kei te tatari te Atua kia rongu mai

koe! Tau Te pure

Panuku 1 whakau 6 LGM

Arohanui te Atua, Kaihanga o te Ao tino ataahua To koutou kaitiaki pono tino whakaiti (1st ingoa) Nga mihi ki a koe mo nga tau

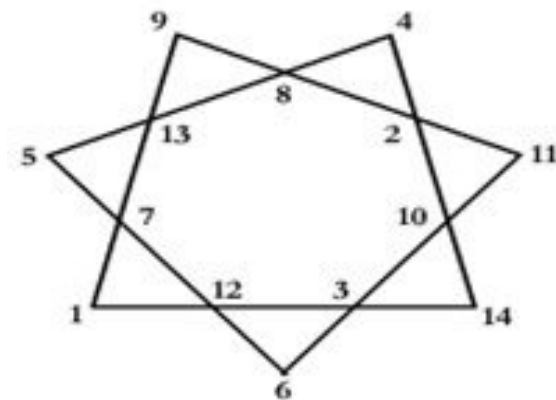
Ka awhina a Numbers ki te mohio ki te Universe Numbers hei awhina i nga mahi kaitiaki kaitiaki Numbers mo te whakaongaonga hinengaro me te ngahau.

Mo te Kororia o te Atua me te Pai o te Tangata

Ka whakamahia tenei inoi ina hiahiatia!



Te makututau



Ko te Heptagram makutu Ka whakatakotohia nga tau ki ia pou pou me ia wahanga kia 30 nga tau e 4 o ia raina!

Challenge

Waihangatia he whetu heptagon ra makutu 7 tohu?

Te ngahau i roto itapawha makutuKo te meka ahakoa he aha te taapiri i nga tau o te tapawha:poutū(v), whakapae(h)hauroki ranei(d) he rite tonu te hua.

Magic squares

Tapawhā makutu me te 9, 16, 25 tau

| Magic Squares | | | | v34 | v34 | v34 | v34 | d34 | |
|-------------------------|-----|-----|-----|----------------|-----|-----|-----|-----|--|
| v15 | v15 | v15 | d15 | 16 | 3 | 2 | 13 | h34 | |
| 8 | 1 | 6 | h15 | 5 | 10 | 11 | 8 | h34 | |
| 3 | 5 | 7 | h15 | 9 | 6 | 7 | 12 | h34 | |
| 4 | 9 | 2 | h15 | 4 | 15 | 14 | 1 | h34 | |
| d15 | | | | 4 corners = 34 | | | | d34 | |
| v65 | 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 | | | | |

Waihangahia he tapawha makutu 49 tau?

Challenge

Tauwhakamahinga

A:He rerekeeKo nga nama ko te 1, 3, 5, 7, 9, me nga tau katoa ko te mati whakamutunga tetahi o enei.

B:AhakoaKo nga nama ko te 0, 2, 4, 6, 8, me nga tau katoa ko te mati whakamutunga ko tetahi o enei.

C:Katoahe tau kehe me te tau taurite.

D:AruaruaKo nga tau he punaha tau turanga 2 e whakamahi ana i nga tohu e 2, 0, 1.

E:ōrau(%)ki te kimi 15 % o te 50 whakareatia te % me te tau whakawehe ki te 100 = 7.5 ! $15 \cdot 50 : 100 = 7.5$

Whakaatuhia te % kua hoatu hei hautau, whakareatia $15 \cdot 100 / 100 = 15$

Whakaatuhia te % kua hoatu hei tau-ira, whakareatia $0.15 \cdot 100 = 15$

F:HautauE 3 nga hikoinga hei huri i te 15% ki te hautau noa $3/20$:**1.** waiho te tohu %.**2.**wehea ki te $100 \cdot 15 / 100$.**3.**whakaiti

ki nga kupu iti rawa _ 3 / 20 .

G:ā-irahurihia te 15% ki roto i te ira. Waiho te tohu %. Katahi ka nukuhia te ira ira o te % rua nga waahi ki te taha mau= 0.15

H:Te raupapa taiaoka taea e nga tau te hanga raupapa tau hei tauira 0, 1, 1, 2, 3...i muri i te 2 tau tuatahi, ko ia tau te tapeke o nga tau e 2 o mua.

ahau:Pirimiatou, kimihia(ka wehea nga tau katoa ma ratou ano)Hei tauira, kimihia nga tau matua katoa ki te 20. Whakarārangihia nga tau katoa mai i te 2 ki te 20. Miramirahia te 2 ka warewarehia nga taurea katoa o te 2. Miramirahia te tau e whai ake nei

(3)e kore e miramirahia, waihotia ona tini katoa. Whakahokia kia tae ra ano ki te mutunga o te rarangi. Ko nga piriti nga tau kua tohua.
2,3,5,7, 11, 13,17, 19,

J:RomaKo nga nama kei runga i etahi o nga reta o te piapa kua honoa hei tohu i te tapeke, i te rereketanga ranei o o raatau uara.

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.

Uara tau

0 > Kore

1 > Kotahi

5 > Rima

7 > Whitu

10 > Tekau

50 > Rima tekau

100 > Rau

500 > Rima rau 1,000

> Mano

5,000 > Rima mano

10,000 > Tekau mano

50,000 > Rima tekau mano

100,000 > Haere mano

500,000 > Rima rau mano

1,000,000 > Miliona

10,000,000, > Tekau miriona

100,000,000 > Rau miriona

1,000,000,000 > Miliard

10,000,000,000 > Tekau miriari

100,000,000,000 > Rau miriona

1,000,000,000,000 > Piriona
 10,000,000,000,000 > Tekau piriona
 100,000,000,000,000 > Rau piriona
 1,000,000,000,000,000 > Trillion
 10,000,000,000,000,000 > Tekau trillion
 100,000,000,000,000,000 > Rau trillion
 1,000,000,000,000,000,000 > Piriona
 10,000,000,000,000,000,000 > Tekau piriona
 100,000,000,000,000,000,000 > Rau piriona

Tuhipoka! Mai i te taha matau ki te mau ki ka whakatakatoria he piko i muri i ia 3 ramatimati.

Mathematical symbols

= hua rite ki

≠ e kore e rite ki

≡ rite rite ki

+ te tāpiri hanumi neke atu i te 1 hua tatau

- tango-atu ka whakaiti i te hua o mua

± te taapiri, te iti ranei

∓ haunga, taapiri ranei

• ranei ~~x~~ whakarea (*ngawari ake*) te tatau i te maha o nga mea rite

÷ te wehewehe i te wahanga o te hua o mua

> nui ake i

< iti iho i te

≥ he rite ki te nui ake ranei

≤ he rite ki te iti iho ranei

≧ kua e nui ake

≦ kua e iti iho i te

% ōrau

‰ permil

~ he rite ki

≈ he rite tonu ki

Ω Omeka, te tapeke o nga whakareatanga tauwehe tuatahi

□ e hāngai ana ki

Δ Delta, rereke

π Pi, hua o √

Σ Sigma, tapeke o

[] taiapa tapawha

{ } taiapa, huinga kau { , } huinga o (

[] taiapa tapawha

whakapūtā) { ... } & na runga,

() whakapuru

huinga mutunga kore

∴ no reira

∴ no te mea, mai



⊆huinga-iti

⊇huinga super



∈huānga o

∉ehara i te huānga



∅huinga kau

o Uhuinga ao

∫whai wāhi

∫kua oti te kati



∫∫taurua

∫∫mata kati



∫∫∫tapatoru

∫∫∫kua kati te rōrahi whakauru

Nga mehua

Ka whakamahia e te Kaitiaki Tiaki nga paerewa New Age(NA)ki te ine.He putanga ineine kua whakahoutia.He ratonga haporī UCG.

Turanga Roawae:mita(m)~

Paerewa Rohewae:mita tapawha(m²)~3D mita(m³)~

Turanga Volumewae:rita(l)~ **Taumaha turangawae:** karamu(g)

Te ine i nga prefix. Whakamahihia nga tohu matua mo nga mana pai.

| Prefix | Tohu | Mana[]Uara | |
|---------|----------|--------------------|-----------------------------------|
| Yotta | Y | 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 | 10 ^[18] | 1,000,000,000,000,000,000 |
| Peta | P | 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 | Taku | 10 ^[4] | 10,000 |
| Kiro | K | 10 ^[3] | 1,000 |
| Hecto | H | 10 ^[2] | 100 |
| Tekau | D | 10 ^[1] | 10 |
| turanga | b | 10 ^[0] | 1 |
| deci | d | 10 ^[-1] | 0.1 |
| centi | c | 10 ^[-2] | 0.01 |
| miri | m | 10 ^[-3] | 0.001 |
| moroiti | μ | 10 ^[-6] | 0.000,001 |

| | | | |
|-------|---|---------------------|-----------------------------------|
| nano | n | 10 ^[-9] | 0.000,000,001 |
| pico | p | 10 ^[-12] | 0.000,000,000,001 |
| femto | f | 10 ^[-15] | 0.000,000,000,000,001 |
| atto | a | 10 ^[-18] | 0.000,000,000,000,000,001 |
| zepto | z | 10 ^[-21] | 0.000,000,000,000,000,000,001 |
| yocto | y | 10 ^[-24] | 0.000,000,000,000,000,000,000,001 |

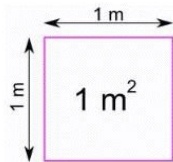
Turanga Roawae:mita(m)~ small letter prefixes are(≤)uara o te turanga.[0]Ko nga taiapa e whakaatu ana i te uara mana.Te tawhiti i waenga i nga tohu 2.Hei taurira 0..à..
10 = 10

| Prefix | Tohu | Mana[]Uara | |
|-----------|----------------------------|---------------------|-----------------------------------|
| 1 Iota | Ym | 10 ^[24] | 1,000,000,000,000,000,000,000,000 |
| 1 Zeta | Zm | 10 ^[21] | 1,000,000,000,000,000,000,000,000 |
| 1 Exa | Em | 10 ^[18] | 1,000,000,000,000,000,000,000 |
| 1 Peta | Pm | 10 ^[15] | 1,000,000,000,000,000,000 |
| 1 Tera | Tm | 10 ^[12] | 1,000,000,000,000,000 |
| 1 Kika | <small>Ko Gm</small> Mm | 10 ^[9] | 1,000,000,000 |
| 1 Mega | Mm | 10 ^[6] | 1,000,000 |
| 1 Myria | Mym | 10 ^[4] | 10,000 |
| 1 Kiro | Km | 10 ^[3] | 1,000 |
| 1 Hekto | Hm | 10 ^[2] | 100 |
| 1 Tekau | Dm | 10 ^[1] | 10 |
| 1 mita | m | 10 ^[0] | 1 |
| 1 tetehi | dm | 10 ^[-1] | 0.1 |
| 1 hereni | cm | 10 ^[-2] | 0.01 |
| 1 miri | mm | 10 ^[-3] | 0.001 |
| 1 moroiti | 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 wahine | fm | 10 ^[-15] | 0.000,000,000,000,001 |
| 1 atu | am | 10 ^[-18] | 0.000,000,000,000,000,001 |
| 1 hepe | zm | 10 ^[-21] | 0.000,000,000,000,000,000,001 |
| 1 ioka | ym | 10 ^[-24] | 0.000,000,000,000,000,000,000,001 |

mita tapawhawe:mita(m²)~ small letter prefixes are(≤)uara o te turanga.[0]Ko nga taiapa e whakaatu ana i te uara mana.Te whanui, te whanuitanga o te waahi kua whakanuia .
Hei taurira 10 • 10 = 100 m²

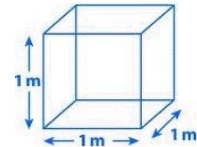
| Prefix | Tohu | Mana[]Uara | |
|--------|-----------------|--------------------|-----------------------------------|
| 1 Iota | Ym ² | 10 ^[24] | 1,000,000,000,000,000,000,000,000 |

| | | | |
|-----------|--------------------|---------|-----------------------------------|
| 1 Zeta | 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] | 1,000,000,000,000,000,000 |
| 1 Tera | Tm ² | 10[12] | 1,000,000,000,000,000 |
| 1 Kika | Gm ² | 10[9] | 1,000,000,000 |
| 1 Mega | Mm ² | 10[6] | 1,000,000 |
| 1 Myria | Maama ² | 10[4] | 10,000 |
| 1 Kiro | Km ² | 10[3] | 1,000 |
| 1 Hekto | Hm ² | 10[2] | 100 |
| 1 Tekau | Dm ² | 10[1] | 10 |
| 1 mita | m ² | 10[0] | 1 |
| 1 tetehi | dm ² | 10[-1] | 0.1 |
| 1 hereni | cm ² | 10[-2] | 0.01 |
| 1 miri | mm ² | 10[-3] | 0.001 |
| 1 moroiti | 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 wahine | fm ² | 10[-15] | 0.000,000,000,000,001 |
| 1 atu | am ² | 10[-18] | 0.000,000,000,000,000,001 |
| 1 hepe | zm ² | 10[-21] | 0.000,000,000,000,000,000,001 |
| 1 ioka | ym ² | 10[-24] | 0.000,000,000,000,000,000,000,001 |



Tapawhā
mita
(m²)

Pūtoru
mita
(m³)



mita pūtoruwae:mita(m³)~ small letter prefixes are(≤)uara o te turanga.[0]Ko nga taiapa e whakaatu ana i te uara mana.Ko te whanui, te whanui, te hohonu o te waahi ka whakanuia .Hei tauira 10 • 10 • 10 = 1000 m³

| Prefix | Tohu | Mana []Uara | |
|---------|-------------------|--------------|---------------------------------------|
| 1 Iota | Ym ³ | 10[24] | 1,000,000,000,000,000,000,000,000,000 |
| 1 Zeta | 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 |
| 1 Peta | Pm ³ | 10[15] | 1,000,000,000,000,000,000 |
| 1 Tera | Tm ³ | 10[12] | 1,000,000,000,000,000 |
| 1 Kika | Gm ³ | 10[9] | 1,000,000,000 |
| 1 Mega | Mm ³ | 10[6] | 1,000,000 |
| 1 Myria | Taku ³ | 10[4] | 10,000 |
| 1 Kiro | Km ³ | 10[3] | 1,000 |

| | | | |
|-----------|-----------------|---------|-----------------------------------|
| 1 Hekto | Hm ³ | 10[2] | 100 |
| 1 Tekau | Dm ³ | 10[1] | 10 |
| 1 mita | m ³ | 10[0] | 1 |
| 1 tetehi | dm ³ | 10[-1] | 0.1 |
| 1 hereni | cm ³ | 10[-2] | 0.01 |
| 1 miri | mm ³ | 10[-3] | 0.001 |
| 1 moroiti | 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 wahine | fm ³ | 10[-15] | 0.000,000,000,000,001 |
| 1 atu | am ³ | 10[-18] | 0.000,000,000,000,000,001 |
| 1 hepe | zm ³ | 10[-21] | 0.000,000,000,000,000,000,001 |
| 1 ioka | ym ³ | 10[-24] | 0.000,000,000,000,000,000,000,001 |

Turanga Volumewae: rita(l)~ small letter prefixes are (≤) uara o te turanga. [0] Ko nga taiapa e whakaatu ana i te uara mana. Rōrahi i waenganui i te 2 mehua. Hei tauira 0..à..10 = 10

| Prefix | Tohu | Mana[]Uara | |
|-----------|------|-------------|-----------------------------------|
| 1 Iota | YI | 10[24] | 1,000,000,000,000,000,000,000,000 |
| 1 Zeta | ZI | 10[21] | 1,000,000,000,000,000,000,000,000 |
| 1 Exa | EI | 10[18] | 1,000,000,000,000,000,000,000 |
| 1 Peta | PI | 10[15] | 1,000,000,000,000,000,000 |
| 1 Tera | TI | 10[12] | 1,000,000,000,000,000 |
| 1 Kika | GI | 10[9] | 1,000,000,000 |
| 1 Mega | MI | 10[6] | 1,000,000 |
| 1 Myria | Myl | 10[4] | 10,000 |
| 1 Kiro | KI | 10[3] | 1,000 |
| 1 Hekto | HI | 10[2] | 100 |
| 1 Tekau | DI | 10[1] | 10 |
| 1 rita | I | 10[0] | 1 |
| 1 tetehi | di | 10[-1] | 0.1 |
| 1 hereni | ci | 10[-2] | 0.01 |
| 1 miri | mi | 10[-3] | 0.001 |
| 1 moroiti | µi | 10[-6] | 0.000,001 |
| 1 nano | ni | 10[-9] | 0.000,000,001 |
| 1 pico | pi | 10[-12] | 0.000,000,000,001 |
| 1 wahine | fi | 10[-15] | 0.000,000,000,000,001 |
| 1 atu | ai | 10[-18] | 0.000,000,000,000,000,001 |
| 1 hepe | zi | 10[-21] | 0.000,000,000,000,000,000,001 |

1 iokayl

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



Rōrahi
(l)

Taumaha
(g)



Taumaha turangawae: **karamu(g)**~ small letter prefixes are (≤)uara o te turanga.[0]Ko nga taiapa e whakaatu ana i te uara mana.**Taumaha i waenganui i te 2 mehua.**Hei taurira 0..à.
10 = 10

| Prefix | Tohu | Mana[]Uara | |
|-----------|----------------------------|---------------------|-----------------------------------|
| 1 Iota | <small>Ko Yg</small> | 10 ^[24] | 1,000,000,000,000,000,000,000,000 |
| 1 Zeta | Zg | 10 ^[21] | 1,000,000,000,000,000,000,000 |
| 1 Exa | <small>Hei taurira</small> | 10 ^[18] | 1,000,000,000,000,000,000 |
| 1 Peta | Pg | 10 ^[15] | 1,000,000,000,000,000 |
| 1 Tera | <small>Ko Tg</small> | 10 ^[12] | 1,000,000,000,000 |
| 1 Kika | Gg | 10 ^[9] | 1,000,000,000 |
| 1 Mega | Mg | 10 ^[6] | 1,000,000 |
| 1 Myria | Mg | 10 ^[4] | 10,000 |
| 1 Kiro | Kg | 10 ^[3] | 1,000 |
| 1 Hekto | Hg | 10 ^[2] | 100 |
| 1 Tekau | Dg | 10 ^[1] | 10 |
| 1 karamu | g | 10 ^[0] | 1 |
| 1 tetehi | dg | 10 ^[-1] | 0.1 |
| 1 hereni | cg | 10 ^[-2] | 0.01 |
| 1 miri | mg | 10 ^[-3] | 0.001 |
| 1 moroiti | µg | 10 ^[-6] | 0.000,001 |
| 1 nano | ng | 10 ^[-9] | 0.000,000,001 |
| 1 pico | wh | 10 ^[-12] | 0.000,000,000,001 |
| 1 wahine | fg | 10 ^[-15] | 0.000,000,000,000,001 |
| 1 atu | ag | 10 ^[-18] | 0.000,000,000,000,000,001 |
| 1 hepe | zg | 10 ^[-21] | 0.000,000,000,000,000,000,001 |
| 1 ioka | yg | 10 ^[-24] | 0.000,000,000,000,000,000,000,001 |

PS-1(Packaging-paerewa)kapi i nga hiahia o nga kaihoko:pono ngāwari ki te whakatairite rahinga hua', tākai.Ka taea te hangarua te takai.

Me whakarite e te Kawanatanga te rahi o te kohinga ihirangi: totoka (**karamu, Kg**), wai(**rita**).Ko te paerewa me pa ki nga kohinga arumoni, ahumahi me te tangata.Me hangarua ano te kete.

Universe Kaitiaki Kaiitiaki Packaging Paerewa Ripanga.

Nga taumaha totoka(**g, Kg**)me nga taumaha wai(**l**)ka taea anake te kiki, tohatoha-

uted, hokona i roto i te 14 rahinga whakaaturia i roto i te tepu.

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 >
l > 10 l > 50 l > 100 l > 200 l
500 l > 1000 l > 2000 l

Arataki Kaihoko: Mārō, Taumaha wai me whakaatu te utu mo te 1 kg, 1 l hei whakataurite i nga utu + te taumaha me te utu. Me hangarua te kete.

He hua me te iti rawa o te kg, l te utu ko te '**Tauhokohoko**'.

Ko nga ohanga whai hua ka taea e te hunga hara moepuku '**Pukenga tinihanga**(tinihanga)'. Me whakamarumarua nga kaihoko mai i te tinihanga, te apo, te whai hua, nga kaihanga tinihanga, nga kaihanga me nga kaihokohoko e whakamahi ana i te 'Pokai tinihanga'(ihirangi iti te rahi) ki te tango painga(rip off) o nga kaihoko. **MSR3** Tautoko **PS-1** Whakapaipai i te paerewa me te pupuri i nga putea tinihanga.

Tauira: Ka tae mai he hua kaihanga ki roto i te kete 0.440 kg ma te whakamahi i ta raatau tapanga tohu. Ko taua hua ano ka tapaina hei tohu mo nga kaihoko kaainga, engari ka whakahekehia te ihirangi kete ki te 0.415 kg. Ka mahia tenei kia taea ai e te kaihokohoko te hoko i to raatau kaainga ki te utu iti ake i te waitohu kaihanga. He mahi hianga, he tinihanga, he apo hoki tenei hei whakapohehe i te kaihoko ki te whakaaro he pai te tohu o te kaainga na te iti o te utu. I te mea pono, na te mea ka iti ake te hua o te kaihoko kaore he penapena me etahi wa ka nui ake te utu a te kaihoko.

Ko te 2nd Ka hokona e te kaiwhakanao he iti ake te utu, he rite tonu tana hua ki te utu. Na te mea he iti ake te hua o te 2nd no reira me hoko mo te iti ake te utu, kua e waiho hei utu. Ko te 2nd Ko te tumanako a te kaiwhakanao i runga i te tinihanga, te tinihanga me te apo, kia kore te kaihoko e tiroiro i te taumaha na te mea he rite te ahua o tana kete ki nga hua whakataetae.

I te nuinga o nga wa ka tae mai te kohinga me te iti ake i te kiko o te ihirangi(tākai rahi). Ko te tikanga o tenei tinihanga ki te whakapohehe i nga kaihoko ki te whakapono ka whiwhi ratou

nui atu ka riro i a raatau!

Me whakarite e te Kawanatanga te rahi o te kohinga ihirangi: totoka (karamu, Kg) me te wai(rita). Ko te paerewa me pa ki nga kohinga arumoni, ahumahi me te tangata. Me hangarua ano te kete.

Morsewaehere

He tikanga e whakamahia ana i roto i te waea. Te roanga tohu: ira, piira!

Ko te roa o te ira he 1 wae! E 3 nga waeine a Dash! Ko te mokowhiti i waenganui i nga wahanga o te reta kotahi he 1 wae. Mokowhiti i waenga i nga reta 3 waeine. Ko te mokowhiti i waenga i nga kupu e 7 nga waahanga.

| | | |
|--------------|--------------|--------------|
| 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 ■■■■■■■■■■ |

Ko te SOS he tohu pouiri mo te waehe Morse

SOS

●●● ——— ——— ——— ●●●