

Senior Mathematics with Māori Kōrero Pūrākau

Level 1 Algebraic Methods

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	Algebraic Task	Kōrero Pūrākau	Answers
1	Adding and Subtracting Terms	Survivors of the Long Journey	Polynesian rats and dogs
2	Multiplying and Dividing Terms with Indices	The Largest Flightless Bird	Moa is the Hawaikian name for fowl
3	Powers of Powers	Unlucky Animals	Pigs and fowl
4	Simplifying Expressions with Roots	The New Food Staple	Aruhe – fern root
5	Order of Operations	The Plant from Hawaiki	Paper mulberry
6	Simplifying Algebraic Expressions – Mixing Up	The Ancient Religion - Myth 1	The creation of a Universe
7	Expanding Single Brackets	The Ancient Religion - Myth 2	The creation of a man and woman
8	Expanding Single Brackets and simplifying	The Ancient Religion - Myth 3	The fire theft
9.1	Expanding Pairs of Brackets – Worksheet 1	The Ancient Religion - Myth 4	Man’s first sin
9.2	Expanding Pairs of Brackets – Worksheet 2	Phrase of the Day	Ka mau te pai – great, excellent, fantastic!
10	Factorising Expressions Leading to Single Brackets	The Ancient Religion – Myth 5	The deluge – the Biblical flood
11	Factorising Quadratics $ax^2 + bx$	Te Kore	The nothingness
12	Factorising Quadratics $x^2 + bx + c$	The Origin of All Living Things	Rangi nui and Papatūānuku
13	Factorising Quadratics $ax^2 + bx + c$, a being a Common Factor of b and c	The Offspring of Sky and Earth – 1 st Child	Tane Māhuta
14	Factorising Quadratics $ax^2 + bx + c$	The Offspring of Sky and Earth – 2 nd Child	Tāwhiri Mātea
15	Special Case of Factorising Quadratics – Perfect Squares	The Offspring of Sky and Earth – 3 rd Child	Rongo Mā Tāne
16	Special Case of Factorising Quadratics – Difference of Two Squares	The Offspring of Sky and Earth – 4 th Child	Haumia Tiketike

17	Mixing it Up – Factorising Quadratics	The Offspring of Sky and Earth – 5 th Child	Tangaroa is his name
18	Adding and Subtracting Algebraic Fractions	The Offspring of Sky and Earth – 6 th Child	Tūmatauenga
19	Multiplying and Dividing Algebraic Fractions	The Earth’s Covering	Creeping plants and low weeds
20.1	Simplifying Algebraic Fractions – Worksheet 1	Living in Darkness	Parents were not yet separated
20.2	Simplifying Algebraic Fractions – Worksheet 2	The Māori Phrase of the Day	Kei te pēhea koe? – How are you?
21	Mixing it up – Algebraic Fractions	Rebel Sons	To separate the sky and the Earth
22	Substitution into Formulae	The Loyal Son	Tāwhiri Mātea
23	Solving Linear Equations with One or Two Steps	The Fear of Separation	He was fearing his kingdom would be overthrown
24	Solving Linear Equations with an Unknown on Both Sides	The Difficult Choice	Let the Earth remain close to us as our nursing mother
25	Solving Linear Equations with Brackets	A Bad Deed – The First Attempt	Rongo Mā Tāne
26	Solving Linear Equations with Fractions	A Bad Deed – The Second Attempt	Tangaroa was his name
27	Forming Linear Equations	A Bad Deed – The Third Attempt	Haumai Tiketike
28	Forming and Solving Linear Equations	A Bad Deed – The Fourth Attempt	Tūmatauenga
29	Solving Linear Inequations	A Bad Deed – The Final Attempt	His name is Tane Māhuta
30	Rearranging of Simple Formulae	The Son who Followed his Father	Too fair and beautiful
31	Rearranging of Rational Expressions	The Author of the Day	Tane Māhuta
32	Rearranging of Formulae Involving Square Roots	Tāwhiri Mātea’s Revenge Against Tane	He uprooted giant trees of Tāne’s forests
33	Solving Simultaneous Equations by Substitution Method	Tāwhiri Mātea’s Revenge to Tangaroa	Hi raised waives as high as cliffs
34	Solving Simultaneous Equations by Elimination Method - Adding	Tāwhiri Mātea’s Revenge to His Peaceful Brothers	She hid them in safe places
35	Solving Simultaneous Equations by Elimination Method - Subtracting	Tāwhiri Mātea’s Attack on Tūmatauenga	Tū placed his feet securely on the Earth
36	Solving Simultaneous Equations by Elimination Method – Adjusting Coefficients	The Consequence of the Separation	His tears flooded the World
37	Mixing it Up – Simultaneous Equations	The Signs of Everlasting Love – Part One	Dew drops on papa’s back

38	Forming and Solving Simultaneous Equations	The Signs of Everlasting Love – Part Two	The morning mists
39	Solving Factorised Quadratic Equations	The First Man	Go to next letter SZMD LZGTSZ
40.1	Solving Quadratic Equations by Factorising - Worksheet 1	The First Woman	Go to next letter GHMDZGTNMD
40.2	Solving Quadratic Equations by Factorising - Worksheet 2	Māori Word of the Day	Momoho – to be successful
40.3	Solving Quadratic Equations by Factorising - Worksheet 3	Māori Word of the Day	Hari – to be happy
41	Solving Quadratic Equations with Rearrangements	The Red Soil of Kurawaka	It was blood from sinews that bound earth and sky
42	Solving Quadratic Equations by Completing the Square	Tradition of Sharing the Breath of Life	Hongi- greeting by pressing noses
43	Solving Rational Equations with Quadratics	Fire Theft	His name is Māui
44	Solving Quadratic Inequations	The Guardian of Fire	Mahuika
45	Forming and Solving Quadratic Equations	The Goddess of Death	Hinenuitepō is her name
46	Solving Equations with Unknown Bases	The Great Fishing Hook	Go to next letter – LZTH'R EHRG
47	Solving Exponential Equations and Inequations with One Base	How Māui Gave Mortality to Man	He was strangled by the goddess
48	Solving Exponential Equations with Different Bases	How Māui Made The Sun Slow Down	Square shaped and flat ropes
49	Finding the Minimum Value of Quadratic Expressions	Ngāti Porou's Sacred Mountain	Hikurangi
50	Finding the Maximum Value of Quadratic Expressions	The meaning of the Hokianga	The place of Kupe's great return
51	Finding Quadratic Equations with Given Solutions	Māui's Instructions	Wait until his head and shoulders are through the noose