

Twentieth International Linguistics Olympiad

Bansko (Bulgaria), 23–29 July 2023

Team Contest Problem

The Murrinh-patha dictionary compiled by Chester S. Street with the help of Gregory Panpawa Mollingin 40 years ago, in 1983, begins as follows:

Murrinh-patha is spoken by approximately 1,100 [Aboriginal people] (as either their first or second language) who live at Port Keats — Wadeye, Northern Territory, 250 kilometres to the south-west of Darwin. A small number of Murrinh-patha speakers also live on nearby cattle stations, and a number live at Kununurra, Western Australia.

At the time of the 2016 census, there were 1,973 native speakers of Murrinh-patha. According to some sources, there are more than 2,500 speakers now. It is one of the few Australian Aboriginal languages whose number of speakers has increased and whose usage has expanded over the past generation.

The dictionary includes English–Murrinh-patha and Murrinh-patha–English sections and is 84 pages long. Sometimes there are pictures in the margins. The entries under the letter M in the second section begin on page 57 and end on page 61. All of these pages are reproduced below, with some minor adjustments and omissions. Further examples from the PhD thesis of Michael James Walsh from 1976 have also been added. English translations of the entries on each page are given after the relevant page, in arbitrary order.

- (a) Match the Murrinh-patha words and phrases with their English equivalents. Each Murrinh-patha dictionary entry has a single English equivalent.
- (b) Restore translation 60-T-54 that was replaced by ***.

(du, m) stands for dual masculine form. (du, f) stands for dual feminine form.

Knowledge of the different species mentioned in the problem is not necessary for solving the problem.

No additional explanation besides the answers is required, nor will be marked.

—*Boris Iomdin, Milena Veneva*

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English text: Boris Iomdin, Milena Veneva.

Good luck!

57-T-1	<i>the tree is swaying (in the wind)</i>	57-T-33	<i>I will save</i>
57-T-2	<i>Can I request something from you_{sg}?</i>	57-T-34	<i>I don't know</i>
57-T-3	<i>I desire it [lit. my belly has got it]</i>	57-T-35	<i>it surged</i>
57-T-4	<i>I will hold him to my chest</i>	57-T-36	<i>I gave to him</i>
57-T-5	<i>I will give to you_{sg}</i>	57-T-37	<i>pregnant</i>
57-T-6	verb negator – archaic	57-T-38	<i>I will be satisfied</i>
57-T-7	<i>I met him</i>	57-T-39	<i>she is making a string design</i>
57-T-8	<i>it will surge</i>	57-T-40	<i>Give it to me!</i>
57-T-9	<i>I am out of breath</i>	57-T-41	<i>they are satisfied</i>
57-T-10	<i>I know his thoughts</i>	57-T-42	<i>I will know your_{sg} thoughts [lit. I will see your_{sg} belly]</i>
57-T-11	<i>they (du, f) met him</i>	57-T-43	<i>I rejoiced for him</i>
57-T-12	<i>abdomen (belly), the seat of the emotions</i>	57-T-44	<i>I will have a stomach ache</i>
57-T-13	<i>I am disillusioned</i>		
57-T-14	<i>I rejoiced at the news</i>	57-T-45	<i>to hold/take to one's chest</i>
57-T-15	<i>I requested something from him</i>	57-T-46	<i>to give</i>
57-T-16	<i>I will sway</i>	57-T-47	<i>to be puffed out, to be out of breath</i>
57-T-17	<i>I had a stomach ache</i>	57-T-48	<i>to be disappointed with something, to be disillusioned</i>
57-T-18	<i>I am holding him to my chest (standing)</i>	57-T-49	<i>to request something</i>
57-T-19	<i>the boat is ploughing through (the water)</i>	57-T-50	<i>to know another's thoughts</i>
57-T-20	non-conjugated verb: <i>to give</i>	57-T-51	<i>to mumble</i>
57-T-21	<i>they were passing the thing on/along</i>	57-T-52	<i>to surge (fresh or salt-water)</i>
57-T-22	<i>I will plough the ground</i>	57-T-53	<i>to give to oneself</i>
57-T-23	<i>I will meet him</i>	57-T-54	<i>to rejoice</i>
57-T-24	<i>he is mumbling</i>	57-T-55	<i>to rejoice (at news, etc.)</i>
57-T-25	<i>I will give to myself</i>	57-T-56	<i>to meet</i>
57-T-26	<i>I might get out of breath</i>	57-T-57	<i>to be satisfied</i>
57-T-27	<i>large bamboo (used for spears)</i>	57-T-58	<i>to sway</i>
57-T-28	<i>I gave to myself</i>	57-T-59	<i>to pass on/along; to make string designs with one's hands</i>
57-T-29	<i>you_{sg} will continually know their thoughts</i>	57-T-60	<i>to have a stomach ache</i>
57-T-30	<i>pass the word along to him!</i>	57-T-61	<i>to plough</i>
57-T-31	<i>I will rejoice for him</i>	57-T-62	<i>to know another's thoughts [lit. to see one's belly]</i>
57-T-32	<i>I save things</i>	57-T-63	<i>to save up, to hoard</i>

58-T-1	<i>message stick</i>	58-T-40	<i>they (du, m) faced each other</i>
58-T-2	<i>thunder and lightning</i>	58-T-41	<i>he was collecting money from them</i>
58-T-3	<i>I will rectify it</i>	58-T-42	<i>unmarried woman</i>
58-T-4	<i>oh, yes, it is a black cormorant</i>	58-T-43	<i>he was washed ashore</i>
58-T-5	<i>didgeridoo (musical instrument)</i>	58-T-44	<i>I continually reprove him</i>
58-T-6	<i>butterfly</i>	58-T-45	<i>I will flash it (operate the projector)</i>
58-T-7	<i>fruit from butterfly tree</i>	58-T-46	<i>left-overs</i>
58-T-8	<i>they (du, f) married</i>	58-T-47	<i>wedge shell (mollusc)</i>
58-T-9	<i>edible fruit from <i>Morinda citrifolia</i></i>	58-T-48	<i>I collected them from him</i>
58-T-10	<i>he is lamenting for another man</i>	58-T-49	<i>butterfly tree</i>
58-T-11	<i>season — end of the wet season</i>	58-T-50	<i>not</i>
58-T-12	<i>I will move straight through the middle</i>	58-T-51	<i>if it had been me, I would have rectified it</i>
58-T-13	<i>many people had filled up the place instead</i>	58-T-52	<i>praying mantis (insect)</i>
58-T-14	<i>not black</i>	58-T-53	<i>baby girl</i>
58-T-15	<i>the lightning will flash</i>	58-T-54	<i>they (du, f) will marry</i>
58-T-16	<i>water lily</i>	58-T-55	<i>How many praying mantises did you_{sg} see?</i>
58-T-17	<i>young child</i>	58-T-56	<i>heart</i>
58-T-18	<i>and the few men were amazed at all those fish</i>	58-T-57	<i>fruit tree</i>
58-T-19	<i>they (du, m) will face/oppose each other</i>	58-T-58	<i>saver, hoarder</i>
58-T-20	<i>I can have a look</i>	58-T-59	<i>the picture (movie) flashed at us (we saw the picture)</i>
58-T-21	<i>I told him off</i>	58-T-60	<i>he will be washed ashore</i>
58-T-22	<i>women's dance</i>	58-T-61	<i>I flashed it (operated the projector)</i>
58-T-23	<i>season — new leaves appear</i>	58-T-62	<i>I will amaze you_{sg}</i>
58-T-24	<i>Hey! (It is) a wedge shell</i>		
58-T-25	<i>small wallaby (a wallaby is like a kangaroo, but smaller)</i>		
58-T-26	<i>chest (body part)</i>	58-T-63	<i>to be upset, to be troubled</i>
58-T-27	<i>I will be upset</i>	58-T-64	<i>to have hunger pains</i>
58-T-28	<i>I have hunger pains</i>	58-T-65	<i>to be amazed, to marvel</i>
58-T-29	<i>particle that indicates ability to do something</i>	58-T-66	<i>to collect from another</i>
58-T-30	<i>I amazed him</i>	58-T-67	<i>to marry [lit. to put a finger into (a ring)]</i>
58-T-31	<i>black stingray (fish)</i>	58-T-68	<i>to fill up with people (only)</i>
58-T-32	<i>he is upset</i>	58-T-69	<i>to rectify</i>
58-T-33	<i><i>Morinda citrifolia</i> (tree)</i>	58-T-70	<i>to flash (used of operating a projector)</i>
58-T-34	<i>black cormorant (bird)</i>	58-T-71	<i>to be opposite, to face</i>
58-T-35	<i>crab legs</i>	58-T-72	<i>to wash ashore</i>
58-T-36	<i>the lightning flashed at me</i>	58-T-73	<i>to move straight through the middle; to tell another off; to reprove</i>
58-T-37	<i>edible fruit from nanthi thay malangan</i>	58-T-74	<i>to amaze another</i>
58-T-38	<i>I will have hunger pains</i>	58-T-75	<i>[verb for] lightning flash</i>
58-T-39	<i>unmarried man</i>		

59-T-1	<i>mother with first-born child</i>	59-T-31	<i>like this</i>
59-T-2	<i>he took it from me</i>	59-T-32	<i>new spear</i>
59-T-3	<i>I didn't understand you_{sg}</i>	59-T-33	<i>tree, used for making wooden hammers and dugout canoes</i>
59-T-4	<i>one who has a speech impediment</i>	59-T-34	<i>fingers</i>
59-T-5	<i>he continually chooses one item</i>	59-T-35	<i>new, now</i>
59-T-6	<i>father's mother, father's mother's sister(s)</i>	59-T-36	<i>an action</i>
59-T-7	<i>I will choose it</i>	59-T-37	<i>I continually understand</i>
59-T-8	<i>thumb, big hand</i>	59-T-38	<i>a good action</i>
59-T-9	<i>here now</i>	59-T-39	<i>cold rain—in dry season</i>
59-T-10	<i>season — showers of rain in the cold season; also eucalyptus flower time</i>	59-T-40	<i>I will help myself</i>
59-T-11	<i>like this</i>	59-T-41	<i>perch (fish)</i>
59-T-12	<i>spider</i>	59-T-42	<i>hand</i>
59-T-13	<i>fruit tree</i>	59-T-43	<i>wild grape</i>
59-T-14	<i>small pied goose (bird)</i>	59-T-44	<i>edible fruit from nanthi thay marrarl</i>
59-T-15	<i>catfish (fish)</i>	59-T-45	<i>five</i>
59-T-16	<i>wooden hammer made from thay maran, used for breaking open mi lala</i>	59-T-46	<i>sign language</i>
59-T-17	<i>I will singe the pied geese</i>	59-T-47	<i>I understood him</i>
59-T-18	<i>I forget: maybe [it was] a pied stilt, maybe a catfish, maybe a perch</i>	59-T-48	<i>I carried it over my shoulder</i>
59-T-19	<i>like, similar</i>	59-T-49	<i>bush potato</i>
59-T-20	<i>pied stilt (bird)</i>	59-T-50	<i>I am going by myself</i>
59-T-21	<i>sky</i>	59-T-51	<i>they were continually disturbing me</i>
59-T-22	<i>by myself [lit. my hand]</i>		
59-T-23	<i>I will trust myself</i>	59-T-52	<i>to learn by observation</i>
59-T-24	<i>don't you_{sg} continually disturb me</i>	59-T-53	<i>to trust</i>
59-T-25	<i>he always carries the wallaby over his shoulder</i>	59-T-54	<i>to help oneself</i>
59-T-26	<i>like, similar</i>	59-T-55	<i>to carry over one's shoulder</i>
59-T-27	<i>we always help each other</i>	59-T-56	<i>to trust oneself</i>
59-T-28	<i>he continually trusts me</i>	59-T-57	<i>to choose, to select (one item)</i>
59-T-29	<i>I will carry it over my shoulder</i>	59-T-58	<i>to understand</i>
59-T-30	<i>you_{sg} took it from him</i>	59-T-59	<i>to take from another</i>
		59-T-60	<i>to disturb from rest/sleep</i>

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|---------|--|---------|--|
| 60-T-1 | <i>I tripped you_{sg}</i> | 60-T-29 | <i>murderess</i> : actually refers to a woman who by her interaction with several men causes jealousy, and thereby they kill each other off for that woman |
| 60-T-2 | verb negator | 60-T-30 | <i>sickness, illness</i> |
| 60-T-3 | <i>I had a dog with me</i> | 60-T-31 | <i>I am exhausted</i> |
| 60-T-4 | <i>the One who abides above</i> | 60-T-32 | <i>I am carrying it</i> |
| 60-T-5 | <i>one month</i> | 60-T-33 | <i>widow</i> |
| 60-T-6 | suffix to abide, to reside | 60-T-34 | <i>I am hungry</i> [lit. <i>I'm sitting with hunger</i>] |
| 60-T-7 | <i>I don't know</i> | 60-T-35 | <i>person with sore ankle(s)</i> |
| 60-T-8 | <i>grass whistling duck</i> (bird) | 60-T-36 | <i>murderer</i> |
| 60-T-9 | <i>toenail</i> | 60-T-37 | <i>necklace</i> [< Eng. <i>necklace</i>] |
| 60-T-10 | <i>big toe, big foot</i> | 60-T-38 | <i>the wave(s) knocked us off our feet</i> |
| 60-T-11 | <i>sandfly</i> (insect) | 60-T-39 | <i>seaweed</i> |
| 60-T-12 | <i>dragon-fly</i> (insect) | 60-T-40 | <i>he always takes all the fish</i> |
| 60-T-13 | non-conjugated verb: <i>to be hungry</i> | 60-T-41 | <i>foot/feet, track</i> |
| 60-T-14 | <i>then I chanced on a sea snake as I went along</i> | 60-T-42 | <i>I tripped him</i> |
| 60-T-15 | <i>widow or widower</i> | 60-T-43 | <i>widower</i> |
| 60-T-16 | <i>full moon</i> | 60-T-44 | <i>toes</i> |
| 60-T-17 | <i>I heard (the story) from him</i> | 60-T-45 | <i>I tripped/stumbled</i> |
| 60-T-18 | <i>I will take everything</i> | | |
| 60-T-19 | <i>fever</i> | | |
| 60-T-20 | <i>orphan (or child with just one parent)</i> | | |
| 60-T-21 | <i>moon</i> | | |
| 60-T-22 | <i>I will carry it</i> | 60-T-46 | <i>to take all</i> |
| 60-T-23 | <i>one who resides in Darwin</i> | 60-T-47 | <i>to have with one (things, animals, people)</i> |
| 60-T-24 | <i>ankle</i> | 60-T-48 | <i>to be knocked off one's feet (by waves or strong current)</i> |
| 60-T-25 | <i>I will have things with me</i> | 60-T-49 | <i>to be exhausted</i> |
| 60-T-26 | <i>I was continually tripping</i> | 60-T-50 | <i>to carry a stretcher, etc.</i> |
| 60-T-27 | <i>sea snake</i> | 60-T-51 | <i>to hear (the story) from another</i> |
| 60-T-28 | <i>pearly nautilus shell</i> (a nautilus is a type of mollusc) | 60-T-52 | <i>to trip another</i> |
| | | 60-T-53 | <i>to trip, to stumble</i> |

60-T-54	***
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61-T-1	<i>the thunder is rumbling</i>	61-T-28	<i>speech, language, name(s), places associated with talking or learning, non-Aboriginal songs, stories, legends, news</i>
61-T-2	(place name)	61-T-29	<i>grevillea</i> (plant)
61-T-3	<i>she will dance</i>	61-T-30	<i>old time, long ago, before, etc.</i>
61-T-4	<i>he habitually eats fish</i>	61-T-31	<i>brains</i>
61-T-5	<i>I will speed up the clapsticks</i>	61-T-32	<i>bone</i>
61-T-6	<i>feather(s)</i>	61-T-33	<i>nasty person</i>
61-T-7	<i>old</i>	61-T-34	<i>snake</i>
61-T-8	<i>I will keep the thing for myself</i>	61-T-35	<i>purple shell</i> (mollusc)
61-T-9	<i>thick</i> (blanket, etc.)	61-T-36	<i>a quiet person</i> (i. e. doesn't talk much)
61-T-10	<i>coolibah tree</i>	61-T-37	<i>bony, skinny, lean</i>
61-T-11	<i>the thunder was rumbling</i>	61-T-38	<i>season — dry/cold</i>
61-T-12	<i>he hit the bird</i>	61-T-39	<i>bitter yam</i>
61-T-13	<i>dangerous snake</i>	61-T-40	<i>water lily</i>
61-T-14	<i>I squashed the lice eggs</i>	61-T-41	<i>tail</i>
61-T-15	<i>clapping sticks</i> (used for creating rhythm by clapping the sticks together), <i>firing sticks</i> (used for lighting a fire)	61-T-42	<i>news</i>
61-T-16	<i>correct, pleasant</i>	61-T-43	<i>old thing</i>
61-T-17	<i>I am keeping the thing for myself</i>	61-T-44	<i>lice eggs</i>
61-T-18	<i>brackish water</i>	61-T-45	<i>they were dancing</i>
61-T-19	<i>ornament worn in hair for dancing</i> (made from feathers)	61-T-46	<i>children's talk</i>
61-T-20	<i>good storyteller</i> [lit. <i>beautiful mouth</i>]		
61-T-21	<i>flock pigeon</i> (bird)	61-T-47	<i>to keep something for oneself</i>
61-T-22	<i>baby girl</i>	61-T-48	<i>to dance, women only</i>
61-T-23	<i>I will beautify the top/back of it</i>	61-T-49	<i>to beautify</i>
61-T-24	<i>alcohol</i>	61-T-50	[verb for] <i>thunder rumbling</i>
61-T-25	<i>bird</i>	61-T-51	<i>to eat</i> (more than one thing, or habitually)
61-T-26	<i>water lily</i>	61-T-52	<i>to blink one's eye</i>
61-T-27	<i>dangerous, nasty, cheeky</i>		

Twentieth International Linguistics Olympiad

Bansko (Bulgaria), 23–29 July 2023

Answer sheet

Team:

57

1	57-T-	14	57-T-	27	57-T-	40	57-T-	53	57-T-
2	57-T-	15	57-T-	28	57-T-	41	57-T-	54	57-T-
3	57-T-	16	57-T-	29	57-T-	42	57-T-	55	57-T-
4	57-T-	17	57-T-	30	57-T-	43	57-T-	56	57-T-
5	57-T-	18	57-T-	31	57-T-	44	57-T-	57	57-T-
6	57-T-	19	57-T-	32	57-T-	45	57-T-	58	57-T-
7	57-T-	20	57-T-	33	57-T-	46	57-T-	59	57-T-
8	57-T-	21	57-T-	34	57-T-	47	57-T-	60	57-T-
9	57-T-	22	57-T-	35	57-T-	48	57-T-	61	57-T-
10	57-T-	23	57-T-	36	57-T-	49	57-T-	62	57-T-
11	57-T-	24	57-T-	37	57-T-	50	57-T-	63	57-T-
12	57-T-	25	57-T-	38	57-T-	51	57-T-		
13	57-T-	26	57-T-	39	57-T-	52	57-T-		

Answer sheet

58

1	58-T-	16	58-T-	31	58-T-	46	58-T-	61	58-T-
2	58-T-	17	58-T-	32	58-T-	47	58-T-	62	58-T-
3	58-T-	18	58-T-	33	58-T-	48	58-T-	63	58-T-
4	58-T-	19	58-T-	34	58-T-	49	58-T-	64	58-T-
5	58-T-	20	58-T-	35	58-T-	50	58-T-	65	58-T-
6	58-T-	21	58-T-	36	58-T-	51	58-T-	66	58-T-
7	58-T-	22	58-T-	37	58-T-	52	58-T-	67	58-T-
8	58-T-	23	58-T-	38	58-T-	53	58-T-	68	58-T-
9	58-T-	24	58-T-	39	58-T-	54	58-T-	69	58-T-
10	58-T-	25	58-T-	40	58-T-	55	58-T-	70	58-T-
11	58-T-	26	58-T-	41	58-T-	56	58-T-	71	58-T-
12	58-T-	27	58-T-	42	58-T-	57	58-T-	72	58-T-
13	58-T-	28	58-T-	43	58-T-	58	58-T-	73	58-T-
14	58-T-	29	58-T-	44	58-T-	59	58-T-	74	58-T-
15	58-T-	30	58-T-	45	58-T-	60	58-T-	75	58-T-

59

1	59-T-	13	59-T-	25	59-T-	37	59-T-	49	59-T-
2	59-T-	14	59-T-	26	59-T-	38	59-T-	50	59-T-
3	59-T-	15	59-T-	27	59-T-	39	59-T-	51	59-T-
4	59-T-	16	59-T-	28	59-T-	40	59-T-	52	59-T-
5	59-T-	17	59-T-	29	59-T-	41	59-T-	53	59-T-
6	59-T-	18	59-T-	30	59-T-	42	59-T-	54	59-T-
7	59-T-	19	59-T-	31	59-T-	43	59-T-	55	59-T-
8	59-T-	20	59-T-	32	59-T-	44	59-T-	56	59-T-
9	59-T-	21	59-T-	33	59-T-	45	59-T-	57	59-T-
10	59-T-	22	59-T-	34	59-T-	46	59-T-	58	59-T-
11	59-T-	23	59-T-	35	59-T-	47	59-T-	59	59-T-
12	59-T-	24	59-T-	36	59-T-	48	59-T-	60	59-T-

60. 60-T-54 = _____

1	60-T-	12	60-T-	23	60-T-	34	60-T-	45	60-T-
2	60-T-	13	60-T-	24	60-T-	35	60-T-	46	60-T-
3	60-T-	14	60-T-	25	60-T-	36	60-T-	47	60-T-
4	60-T-	15	60-T-	26	60-T-	37	60-T-	48	60-T-
5	60-T-	16	60-T-	27	60-T-	38	60-T-	49	60-T-
6	60-T-	17	60-T-	28	60-T-	39	60-T-	50	60-T-
7	60-T-	18	60-T-	29	60-T-	40	60-T-	51	60-T-
8	60-T-	19	60-T-	30	60-T-	41	60-T-	52	60-T-
9	60-T-	20	60-T-	31	60-T-	42	60-T-	53	60-T-
10	60-T-	21	60-T-	32	60-T-	43	60-T-	54	60-T-
11	60-T-	22	60-T-	33	60-T-	44	60-T-		

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1	61-T-	12	61-T-	23	61-T-	34	61-T-	45	61-T-
2	61-T-	13	61-T-	24	61-T-	35	61-T-	46	61-T-
3	61-T-	14	61-T-	25	61-T-	36	61-T-	47	61-T-
4	61-T-	15	61-T-	26	61-T-	37	61-T-	48	61-T-
5	61-T-	16	61-T-	27	61-T-	38	61-T-	49	61-T-
6	61-T-	17	61-T-	28	61-T-	39	61-T-	50	61-T-
7	61-T-	18	61-T-	29	61-T-	40	61-T-	51	61-T-
8	61-T-	19	61-T-	30	61-T-	41	61-T-	52	61-T-
9	61-T-	20	61-T-	31	61-T-	42	61-T-		
10	61-T-	21	61-T-	32	61-T-	43	61-T-		
11	61-T-	22	61-T-	33	61-T-	44	61-T-		