

No. _____
Date _____



คณะอักษรศาสตร์
จุฬาลงกรณ์มหาวิทยาลัย
CHULALONGKORN UNIVERSITY

วิชาเศรษฐศาสตร์เบื้องต้น (ภาคเรียนที่ 1/2563) (ภาคเรียนที่ 1/2563) (ภาคเรียนที่ 1/2563)

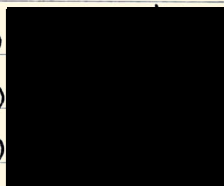
วิชาเศรษฐศาสตร์ 1 : ภาคเรียนที่ 1/2563

วิชาเศรษฐศาสตร์ 2 : ภาคเรียนที่ 1/2563

วิชาเศรษฐศาสตร์ : (1)

(2)

(3)



วิชาเศรษฐศาสตร์เบื้องต้น



มหาวิทยาลัยจุฬาลงกรณ์
CHULALONGKORN UNIVERSITY

စာအုပ် ၁

TONE

No.

①

Date

- $chā' = \text{မာဏ}$
 $chā' thē' = \text{မာဏမာဏ}$
- $chā' = \text{ကမ (က)}$
 $chā' lō' = \text{ကမလ}$
- $chā' = \text{မာ}$
 $chā' chā' = \text{မာမာ}$
- $thū' lē' chā' = \text{ကမကမကမ}$
 $thū' lē' chā' jō' = \text{ကမကမကမကမ}$

စာအုပ် ၂

- $hō' = \text{ကမကမ}$
 $hō' bū' = \text{ကမကမကမ}$
- $zè' hò' = \text{ကမ, မာ}$
 $zè' hò' chā' = \text{ကမကမ}$
- $hō' = \text{ကမ}$
 $hō' jē' khī' = \text{ကမကမ}$
- $hō' = \text{မာ, မာ}$
 $zì' bē' hò' hā' = \text{ကမကမကမ}$

စာအုပ် ၃

- $zì' phō' = \text{ကမ, မာ}$
 $chā' zì' phō' rù' = \text{ကမကမကမ}$
- $phō' = \text{ကမ}$
 $phō' nā' = \text{ကမကမ}$
- $zà' phō' = \text{ကမကမ}$
 $phō' lā' = \text{ကမကမကမ}$
- $phō' = \text{မာ, မာ}$
 $phō' kà' = \text{ကမကမကမ}$

စာအုပ် ၄

- $kò' chō' = \text{ကမ (ကမကမ)}$
 $kò' chō' phē' = \text{ကမ (ကမကမ) ကမ}$
- $zì' chō' = \text{ကမ}$
 $zì' chō' vē' = \text{ကမ (ကမကမ)}$
- $chō' = \text{ကမ}$
 $chō' (thō) hā' = \text{ကမကမ}$
- $chō' = \text{ကမ (ကမကမ) ကမ}$
 $chō' chā' = \text{မာ... ကမ, မာ... ကမ}$

TONE (ต๋อ)

No.

(2)

Date

ข้อ 5

1. sí plē? = สิ่ปเล่? sí plē mè? = สิ่ปเล่เม่?
2. sī plē? = สีปเล่? sī plē có? = สีปเล่ค้อ?
3. khē tè plē? = เข่เต่ปเล่? khē tè plē khē? = เข่เต่ปเล่เข่?
4. tè plē? = เต่ปเล่? tè plē dù? = เต่ปเล่ดู?

ข้อ 6

1. thō mō? = ท้อม้อ? thō mō kà dā? = ท้อม้อกะด้า?
2. tò mò? = ท้อม้อ? thwì tò mò chwà? = ทวี่ท้อม้อชว้า?
3. chā mó? = ชา่มอ? chā mó rǎ? = ชา่มอระ?
4. mō? = ม้อ? mō kà hǎ? = ม้อกะห่า?

ข้อ 7

1. zà thē? = ซ่าเท่? zà thē dù? = ซ่าเท่ดู?
2. thē? = เท่? thē hì? = เท่หี่?
3. thē? = เท่? thē bǎ? = เท่บ่า?
4. thē? = เท่? thē dù? = เท่ดู?

ข้อ 8

1. chā phē? = ชา่เฟ่? chā phē dù? = ชา่เฟ่ดู?
2. kú phē? = กู้เฟ่? kú phē kù? = กู้เฟ่คู?
3. phē? = เฟ่? phē kǎ? = เฟ่กะ?
4. phē? = เฟ่? phē kà hǎ? = เฟ่กะห่า?

TONE (๑๐)

No.

3

Date

ข้อที่ 9

1. khi kō? = หนึ่หนึ่หนึ่หนึ่หนึ่หนึ่ khi kō lē? = หนึ่หนึ่หนึ่หนึ่หนึ่หนึ่
2. kō? = หนึ่หนึ่หนึ่หนึ่หนึ่หนึ่ kō hō? = หนึ่หนึ่หนึ่หนึ่หนึ่หนึ่
3. zō kō? = หนึ่หนึ่หนึ่หนึ่หนึ่หนึ่ zō kō yjā? = หนึ่หนึ่หนึ่หนึ่หนึ่หนึ่
4. chí kō? = หนึ่หนึ่หนึ่หนึ่หนึ่หนึ่ chí kō sǎ? = หนึ่หนึ่หนึ่หนึ่หนึ่หนึ่

ข้อที่ 10

1. chǎ? = หนึ่หนึ่หนึ่หนึ่หนึ่หนึ่ chǎ kǎ? = หนึ่หนึ่หนึ่หนึ่หนึ่หนึ่
2. chǎ? = หนึ่หนึ่หนึ่หนึ่หนึ่หนึ่ chǎ phǎ cǎ? = หนึ่หนึ่หนึ่หนึ่หนึ่หนึ่
3. chǎ? = หนึ่หนึ่หนึ่หนึ่หนึ่หนึ่ chǎ sǎ mǎ? = หนึ่หนึ่หนึ่หนึ่หนึ่หนึ่
4. tǎ chǎ? = หนึ่หนึ่หนึ่หนึ่หนึ่หนึ่ tǎ chǎ kǎ? = หนึ่หนึ่หนึ่หนึ่หนึ่หนึ่

ข้อที่ 11

1. bē? = หนึ่หนึ่หนึ่หนึ่หนึ่หนึ่ bē lǎ? = หนึ่หนึ่หนึ่หนึ่หนึ่หนึ่
2. zǐ bē? = หนึ่หนึ่หนึ่หนึ่หนึ่หนึ่ zǐ bē lǎ? = หนึ่หนึ่หนึ่หนึ่หนึ่หนึ่
3. khē bē? = หนึ่หนึ่หนึ่หนึ่หนึ่หนึ่ khē bē kǎ? = หนึ่หนึ่หนึ่หนึ่หนึ่หนึ่
4. sē bē? = หนึ่หนึ่หนึ่หนึ่หนึ่หนึ่ sē bē sǎ? = หนึ่หนึ่หนึ่หนึ่หนึ่หนึ่

ข้อที่ 12

1. fō? = หนึ่หนึ่หนึ่หนึ่หนึ่หนึ่ fō fō? = หนึ่หนึ่หนึ่หนึ่หนึ่หนึ่
2. fō? = หนึ่หนึ่หนึ่หนึ่หนึ่หนึ่ khē bē fō fē? = หนึ่หนึ่หนึ่หนึ่หนึ่หนึ่
- * 3. zō kō? = หนึ่หนึ่หนึ่หนึ่หนึ่หนึ่ zō kō fō? = หนึ่หนึ่หนึ่หนึ่หนึ่หนึ่
4. fō? = หนึ่หนึ่หนึ่หนึ่หนึ่หนึ่ fō fē mē? = หนึ่หนึ่หนึ่หนึ่หนึ่หนึ่

ข้อที่ 13

- | | |
|---------------|---------------|
| 1. ɔ̃? = ๑ | ɔ̃ hɔ̃? = ๑ |
| 2. ɔ̃? = ๒ | ɔ̃ tɔ̃? = ๒ |
| 3. ɔ̃? = ๓ | ɔ̃ mi? = ๓ |
| 4. dɛ ɔ̃? = ๔ | dɛ ɔ̃ rɛ? = ๔ |

ข้อที่ 14

- | | |
|------------------|---------------------|
| 1. khi? = หนึ่ | khi kà hɔ̃? = หนึ่ |
| 2. (ɔ̃) khi? = ๑ | khi dɔ̃? = ๑ |
| 3. (ɔ̃) khi? = ๒ | khi hɔ̃? = ๒ |
| 4. khu khi? = ๓ | khu khi vā hɔ̃? = ๓ |

ข้อที่ 15

- | | |
|---------------|-------------------|
| 1. mē? = ๑ | mē dɔ̃? = ๑ |
| 2. nò mē? = ๒ | nò mē plā lē? = ๒ |
| 3. mē? = ๓ | mē chā? = ๓ |
| 4. mē? = ๔ | mē phrè mɔ̃? = ๔ |

ข้อที่ 16

- | | |
|----------------------|-----------------------|
| 1. ɔ̃ vī? = ๑ | ɔ̃ vī chā? = ๑ |
| 2. (ɔ̃) vī? = ๒ | vī tɔ̃? = ๒ |
| 3. vī? = ๓ | vī khi? = ๓ |
| 4. sī dī kɔ̃ vī? = ๔ | sī dī kɔ̃ vī sɔ̃? = ๔ |

VOWEL

No.

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①

ข้อที่ 1

1. thi? = ติช (พยางค์)

2. the? = ธี

3. the? = ธี

4. ri thi? = ริ ติช (พยางค์)

5. mé thi? = เม ติช

6. thià? = ติช (พยางค์)

7. thù? = ทุ (พยางค์), ติช

8. thò? = ทุ

9. thò? = ทุ

ข้อที่ 2

1. ri? = ริ

2. rè? = เร (พยางค์)

3. sé rè? = เซ เร (พยางค์)

4. ri? = ริ

5. rì? = ริ

6. dé rà? = เด เร (พยางค์)

7. ké rù? = เค ทุ

8. hē rò? = เฮ ทุ

9. lè rò? = เล ทุ, เละ (พยางค์)

ชุดที่ 3

1. khi? = หน
2. khe? = หน
3. khe? = หน
4. khi? = หน
5. tì khì? = หน (หน)
6. zà khà? = หน
7. hè khù? = หน
8. mè khò? = หน
9. khò? = หน

ชุดที่ 4

1. bi? = หน
2. tè bè? = หน
3. i' bè? = หน
4. bi? = หน
5. cò b' b' = หน
6. bà? = หน
7. fù bù? = หน
8. bō? = หน (หน, หน)
9. bō? = หน

४७१.५

1. $7i \cdot ci^9 = 705705$

$$d. \quad ce^? = \frac{22}{1}$$

3. $m^{\circ}e^{\circ}e^{\circ} = m^{\circ}(\Lambda^{\circ})$

4. $C_1^1 = 1$

5. $2a^1 c^1 ? = 7^2_{\text{వత=గేబ}}$

6. $\frac{1}{ca^2} = \frac{2}{6\pi^2}$

7. $cu^2 = 66cm^2$

8. $CO_2 = \text{gas}$

9. $f_0 c_0^2 = 1 \text{ x} 10^8$

४७१'६

1. $\hbar \omega_{\text{Si}} = \frac{2}{\pi} \frac{2}{\pi} \frac{2}{\pi}$

$$2. (s')s' = \text{empty}$$

3. $2i \text{ se } 2 = 11 \text{ มก } 2 \text{ 11 } (11 \text{ มก } 11 \text{ มก } 11)$

4. $\dot{s}^2 = \text{Ans (orans)}$

5. $21'53'' = 62^\circ$

6. $f_a s_a^1 = 7m$

7. $\text{su}^? = \text{nəxvoma'}$

8. $50^\circ = 62:6 \text{ Sec}$

9. $502 = 272$

ข้อที่ 7

1. mǎ? = ม้า

2. mǎ? = ม้า

3. zǐ mǎ? = 紫馬 (สีม่วงม้า) / 紫馬 (สีม่วงม้า)

4. mǎ? = ม้า

5. fǎ mǎ? = ฟา

6. zǎ mǎ? = 紫馬, 紫馬

7. mǎ? = ม้า

8. zǐ mǎ? = 紫馬

9. mǎ? = ม้า

ข้อที่ 8

1. zǐ? = 紫

2. zǐ? = 紫

3. zǐ zǐ? = 紫紫

4. fǎ fǎ? = ฟาฟา

5. zǐ? = 紫...

6. zǐ? = 紫, 紫

* 7. dǐ zǐ? = 底紫

8. zǐ? = 紫

9. fǎ zǐ? = ฟา紫

1. $2a \cdot li^7 = 2^{119} b$

$$2. \quad \lambda_a^{\dagger} \ell_e^{\dagger} = \frac{1}{\sqrt{2}}$$

3. $f_a k \varepsilon l \varepsilon ? = \omega \vee \omega$

4. $l_i^? (s_i^?) = \text{writes}$

5. $l_3' = \pi_2 \pi$

6. $\ln^2 = \sin^2$

7. $\ln 2 = \ln 2$

8. $\log = \sin, \cos$

9. $\partial^2 L / \partial \alpha^2 = 2 \sum_{i=1}^n$

1. f_i price (set) = $\text{quantity} \times (\text{quantity} + 1) \times \text{price}$ (in kg , kg , kg)

2. $f''(x) = \frac{d}{dx} f'(x)$

3. $\rho_{H^2}(L_{\text{w}2}) = \frac{\text{อัตราดอกเบี้ย/มูลค่า}$

4. $pH^+ = \frac{6.2}{12}$

5. $2a^2 p^2 q^2 = 2048$

6. $\tau_a \text{ phá} = 1 \text{ GPa}$

7. $t_u \text{ phụ?} = 1 \text{ g}$

8. $t_0 p h_0 ? = n a b$

9. $\text{ch}^{\bar{a}}\text{ph}^{\bar{o}} = 15:17 = 255:255$

Assimilation

No.

Date

(1) $\text{thũ}^? = \text{xn}$ $\text{thũ phrē}^? = \text{xnob}$
 $\sim \text{thũ}^?$ $\text{thũ bō}^? = \text{xnob}$
 $\text{thũ lwi}^? = \text{xnob}$
 $\text{thũ rwi}^? = \text{xnob}$
 $\text{thũ rá}^? = \text{xnob}$

(2) $\text{tēu}^? = \text{xn}$ $\text{tē kù}^? = \text{xnob}$
 $\text{tē phjá}^? / \text{tē kló}^? = \text{xnob}$
 $\text{tē rù}^? = \text{xnob}$
 $\text{tē phú}^? = \text{xnob}$

(3) $\text{chāu}^? = \text{xnob}$ < $\text{chā rú}^? < \text{chā phú}^?$

$\text{rà mō}^? = \text{xnob}$ < $\text{rà mō h}^?$

$\text{thwā}^? = \text{xnob}$ < $\text{thwā h}^?$

$\text{nī}^? = \text{xnob}$ < $\text{nī h}^?$

$(\text{rē}^?) \text{nā}^? = (\text{rē}^?) \text{nā} < \text{rē}^? \text{nā h}^?$

$\text{mā}^? = \text{xnob}$ < $\text{mā h}^?$

$\text{thō}^? = \text{xnob}$ < $(\text{rà}) \text{thō h}^?$

(4) $\text{chī}^? \text{kō}^? = \text{xnob}$ $\text{chī}^? \text{kō}^? \text{s}^?$

Date _____

~~3, 4, 5~~

(kè jē dū jē? tē phrè? / bō thwì? nǎ thwá? dǎ hì? dǎ kǔ? /

à se plɔ? / tò plɔ? / / tò cē tē je? ph̄ ph̄ dɔ? / / t̄ t̄ n̄
 607 ɲoʔ ɲoʔ ɲoʔ / / ɲoʔ ɲoʔ ɲoʔ / / ɲoʔ ɲoʔ ɲoʔ

về ?ò, ?à? / phrè mè kì? phjạ? sê plò tũn jỏ? / hê thũ lè ?à mề

ná ní nē' / ʔā mē cū? lā plì dū ló? / ʔà vè k̄ā tò hi'? / mé
 ꦤꦱ ꦤꦶ ꦤ꧀ꦲꦃꦸꦏꦺꦴꦥꦭꦶꦢꦸꦭꦺꦴꦠꦺꦴꦕꦩꦼꦁꦠꦺꦴꦫꦶꦛꦺꦴꦩꦺ

thà sé plò? sɛ̃ n̄ ɛ̃ ɛ̃ ɛ̃ ɛ̃ / n̄ m̄ thw̄ n̄ thw̄ n̄ sé plò? /
 1000000 5000 1000000 1000 2 1000 1000 1000 1000000

nô hz' phja' kà nì sɛ? / mē nā vè' sí plò' mù sɛ? / cwa'
 何知 何人 何事 何處 何時 何物 何故 何人 何事 何處 何時 何物
 何人 何事 何處 何時 何物

zi' phri? / k'u lā' pləʔ dɜ́ thwi nɛ́ thwa? / tō dō tɜ́ pləʔ //

ធិតាស្រី "ស្រីមាតា" 3

การวัดพื้นที่ทางกลศาสตร์: $\text{พื้นที่} = \frac{1}{2} \times \text{ความยาว} \times \text{ความสูง}$

[illegible]

sé-plí' nǎ thwí' thwá'

သံသရာ၌ ဂမ နာမ ဂမ

No.

Date



คณะอักษรศาสตร์
จุฬาลงกรณ์มหาวิทยาลัย
CHULALONGKORN UNIVERSITY

วิว the? = วิว the? = วิว the?

khie bo? = วิว the? = วิว the?
วิว the? = วิว the? = วิว the?
วิว the? = วิว the? = วิว the?
วิว the? = วิว the? = วิว the?

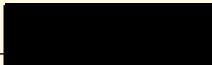
② tê phé pló' / chó' / tē phé pló' / lē hó kū pā' nà sè?
 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832.

No.

Kayaw

Date

Catholic



Kayaw

| | |
|----------------|---------------------------------|
| lī mī' tī nī | ကလိမီတီနီ ၁ ဝေ = ကလိမီတီ |
| lī mī' kī nī | ကလိမီကီနီ ၂ ဝေ = ကလိမီကီ |
| lī mī' sī nī | ကလိမီစီနီ ၃ ဝေ = ကလိမီစီ |
| lī mī' lī nī | ကလိမီလီနီ ၄ ဝေ = ကလိမီလီ |
| lī mī' jē nī | ကလိမီဧနီ ၅ ဝေ = ကလိမီဧ |
| lī mī' kū tū | ကလိမီကူတူ ၆ ဝေ = ကလိမီကူ |
| lī mī' ghu dē? | ကလိမီဂ္ဂှုဒေ? ၇ ဝေ = ကလိမီဂ္ဂှု |

Kayaw
Kayaw

| | | |
|------------------------------|-----------|---------------------|
| phi' tā bà? | ဖိ' ၁ ဝေ | chā tè bè? |
| phi' kī bà? | ဖိ' ၂ ဝေ | chā nā bè? |
| phi' sī bà? | ဖိ' ၃ ဝေ | chā sō bè? |
| phi' lī bà? | ဖိ' ၄ ဝေ | chā lwī bè? |
| phi' jē bà? | ဖိ' ၅ ဝေ | chā yē bè? |
| phi' sī sū? / phi' bà sī sū? | ဖိ' ၆ ဝေ | chā bè? sō swá? |
| phi' nī bà? | ဖိ' ၇ ဝေ | chā sō' swá? tè bè? |
| phi' bà lī sū? | ဖိ' ၈ ဝေ | chā bè lwī swá? |
| phi' khi' bà? | ဖိ' ၉ ဝေ | chā lwī swá? tè bè? |
| phi' bà phi? | ဖိ' ၁၀ ဝေ | chā bè chí? |
| phi' phi' tā bà? | ဖိ' ၁၁ ဝေ | chā chí' tè bè? |
| phi' phi' kī bà? | ဖိ' ၁၂ ဝေ | chā chí' nā bè? |
| phi' phi' sī bà? | ဖိ' ၁၃ ဝေ | chā chí' sō bè? |
| phi' phi' lī bà? | ဖိ' ၁၄ ဝေ | chā chí' lwī bè? |
| phi' phi' jē bà? | ဖိ' ၁၅ ဝေ | chā chí' yē bè? |

| | | |
|---|-------------|--|
| ghí' ghí' bà s' sū? | Tó 16 95 | chā ch' sō swá? |
| ghí' ghí' ní bà? | Tó 17 95 | chā ch' sō swá? tē bē? |
| ghí' ghí' bà l' sū? | Tó 18 95 | chā ch' lwī swá? |
| ghí' chí' k' bà? | Tó 19 95 | chā lwī swá? tē bē? |
| ghí' bà k' ghí' | Tó 20 95 | chā bē nē ch'? |
| ghí' ghí' tā bà? | Tó 21 95 | chā nē ch' ná tē bē? |
| ghí' bà l' sū ghí'? | Tó 30 95 | chā bē sō ch'? |
| ghí' bà l' ghí'? | Tó 40 95 | chā bē lwī ch'? |
| ghí' bà jē ghí'? | Tó 50 95 | chā bē jē ch'? |
| ghí' bà ghú ghí'? | Tó 60 95 | chā bē ch' sō swá? |
| ghí' bà né ghí'? | Tó 70 95 | chā bē sō swá t' ch'? |
| ghí' bà phó ghí'? | Tó 80 95 | chā bē ch' lwī swá? |
| ghí' bà k' ghí'? | Tó 90 95 | chā bē lwī swá t' ch'? |
| ghí' bà k' ghí' k' bà? | Tó 99 95 | chā ^{bē?} lwī swá t' ch' nē lwī swá? tē bē? |
| ghí' bà tā jā? | Tó 100 95 | chā bē tē jē? |
| ghí' bà tā jā tā bà? | = Tó 101 95 | chā tē jē ná tē bē? |
| ghí' bà tā jā bà s' sū? | = Tó 106 95 | chā tē jē ná bē sō swá? |
| ghí' bà tā jā bà ghí'? | = Tó 110 95 | chā tē jē ná bē ch'? |
| ghí' bà tā jā k' ghí' / ghí' bà tā jā bà k' ghí'? | = Tó 120 95 | chā tē jē ná bē nē ch'? |
| ghí' bà k' jā | = Tó 200 95 | chā bē nē jē?, chā nē jē? |
| ghí' bà sū jā | = Tó 300 95 | chā bē sō jē?, chā sō jē? |
| ghí' bà jā | = | chā bē jē sō swá? = Tó 600 95 |

chā bē jē lwī swá? = Tó 800 95.

$\begin{matrix} 1 & 2 & 3 & 4 & 5 \\ \text{tò} & \text{nē} & \text{sō} & \text{lwī} & \text{jē} \\ \text{kò?} & \text{kò?} & \text{kò?} & \text{kò?} & \text{kò?} \\ \text{1} & \text{2} & \text{3} & \text{4} & \text{5} \\ \text{ch'} & \text{ch'} & \text{ch'} & \text{ch'} & \text{ch'} \end{matrix}$
 $\begin{matrix} 6 & 7 & 8 & 9 \\ \text{sō} & \text{sō} & \text{sō} & \text{sō} \\ \text{swá?} & \text{swá?} & \text{swá?} & \text{swá?} \\ \text{6} & \text{7} & \text{8} & \text{9} \\ \text{ch'} & \text{ch'} & \text{ch'} & \text{ch'} \end{matrix}$
 $\begin{matrix} 10 & 11 & 12 & 13 & 14 \\ \text{kò} & \text{kò} & \text{kò} & \text{kò} & \text{kò} \\ \text{lwī} & \text{lwī} & \text{lwī} & \text{lwī} & \text{lwī} \\ \text{swá?} & \text{swá?} & \text{swá?} & \text{swá?} & \text{swá?} \\ \text{10} & \text{11} & \text{12} & \text{13} & \text{14} \\ \text{ch'} & \text{ch'} & \text{ch'} & \text{ch'} & \text{ch'} \end{matrix}$
 $\begin{matrix} 15 & 16 & 17 & 18 & 19 \\ \text{kò} & \text{kò} & \text{kò} & \text{kò} & \text{kò} \\ \text{ch'} & \text{ch'} & \text{ch'} & \text{ch'} & \text{ch'} \end{matrix}$

10 = 10

No.

Date

Kayaw . (၁၀၇/၂၆၆)

စာနံ ၁ : mi? = မိ

thā mē? zā nū mē? = မေး

zā mē? = မိ

mā mī? = မိ

mī? = မိ

mā? zā mā? = မေး

rā mū? = မိ (v.)

bō mō? = မိ

phi mō? = မိ

စာနံ ၂ : ruc = မိ

zā rū? = မိ

rū? = မိ

စာနံ ၃ : zā ghā? = မိ

chā? = မိ

chā? = မိ

စာနံ ၄ : lā phō? = မိ

zā phō? = မိ

zā chō? = မိ

စာနံ ၅ : zā sā? = မိ

zā sā? = မိ

zā sā? = မိ

ข้อที่ 6 : lǎ? = กล้วย
 lā? = กล้วย
 là? = กล้วย

ข้อที่ 7 zǎ fǔ? = กล้วย
 zǎ fū? = กล้วย
 zǎ fù? = กล้วย (น.)

ข้อที่ 8 : zǎ lí? = กล้วย
 zǎ lī? = กล้วย
 lí? = กล้วย/กล้วย

ข้อที่ 9 : zǎ bú? = กล้วย
 zǎ bū? = กล้วย
 zǎ bù? = กล้วย

ข้อที่ 10 : zǎ kú? = กล้วย
 zǎ kū? = กล้วย (กล้วย) กล้วย
 zǎ kù? = กล้วย

ข้อที่ 11 : kǎ? = กล้วย
 kā? = กล้วย
 kà? = กล้วย

ข้อที่ 12 : zǎ mǐ? = กล้วย (ripe)
 zǎ mī? = กล้วย
 mǐ? = กล้วย

Footnotes

1. In footnote 347 of the *Sino-Tibetan: a Conspectus* (Benedict, 1972), Matisoff as the "contributing editor" states that both Jones and Burling did not pay attention to the fundamental work by Haudricourt in BSLP 42 (1942-45) and BSLP 49 (1953) who brilliantly solved the problems in the reconstruction of Proto-Karen although having limited data sources. This is also my disadvantage because Haudricourt's works on Karen are not available in Thailand, except the English version of his work (1961) translated by Court (1972) which contains a few lines of Karen information.

2. My major field sites are: Ban Dong Dam in Li district, Lampun province (Pwo), Ban Pa La U in Hua Hin district, Prachuapi Khiri Khan province (Sgaw), Ban Huai Suea Thao in Mueang district, Mae Hong Son province (E. Kayah, Kayan, Kayaw), Ban Huai Khan in Mueang district, Mae Hong Son province and Wat Thaiwatthana ram in Mae Sot district, Tak province (Pa-O). The other ^{available} documented material ^{by many authors (see the reference section).} and the field notes of my co-researchers in the Karen Linguistics Project funded by the Thailand Research Fund (2007-2012) ^{present and previous} were also consulted. My ^{present and previous} field notes were among the ^{collected at} many ^{field sites} minor data sources.

3. V stands for any vocalic element. It is predictable from the vowel of the following classifier. Tone sandhi between the tones of numerals and classifiers can be detected but there are no obvious patterns.

4. It is noticeable that both systems, decimal together with multiplicative and additive, are used in W. Kayah and Bwe. This is not unique, Mazaudon (2007)^{5/22} stated that Dzongkha, the national language of Bhutan, has two numeral systems, a decimal system, borrowed from Tibetan, is used in formal occasions; while a vigesimal (20-base) system is used in everyday life.

5. In some cases, the structure of this NP type is changed to N+CLF+NUM in both E. Kayah and Kayah. When CLF precedes NUM, there is no vocalic harmony, see examples below.

| | E. Kayah | Kayah |
|----------------|---|--|
| 'one chicken' | pha ³³ te ¹¹ be ¹¹ | phi ³⁵ ta ³³ ba ¹¹ |
| | chicken 1 CLF | chicken 1 CLF |
| 'ten chickens' | cha ³³ be ¹¹ ch ³ | phi ³⁵ ba ¹¹ phi ³⁵ |
| | chicken CLF 10 | chicken CLF 10 |

6. The original Karen morpheme meaning 'thousand' was lost in the Pwo variety spoken at Ban Dong Dam in Li district, Lampun province which is my major field site for Pwo. ^{In fact,} the Thai word /phan/ 'thousand' was borrowed into most of the Pwo varieties spoken in northern Thailand (see examples in Culy, 1993). On the other ^{hand,} the Karen morpheme meaning 'thousand' is still kept in many Pwo varieties spoken in central Thailand; examples can be found in Phillips (1996). In many Sgaw Karen varieties, the Thai word /mɛn/ 'ten thousand' is used for 'thousand'.

✓ Based on the tone-box concept, (*A *B *C *D),
7. Shintani (2002) and Manson (2009) proposed four proto tones. I think that the third non-checked tone which is equivalent to the *C tone in Proto-Tai is redundant. There is no point to say that this PK tone has completely merged with the other tones in modern Karen languages. PTB is non-tonal (Benedict, 1972; Matisoff, 2003). ^{In fact,} The PK three tones, i.e. *A *B and *C (equivalent to Proto-Tai *D) are adequate to show a possible scenario for the tonal development in the modern languages and varieties.



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จุฬาลงกรณ์มหาวิทยาลัย
CHULALONGKORN UNIVERSITY

| <u>Pa-O</u> | <u>Pwo</u> | <u>Sgaw</u> | <u>Kayan</u> | <u>Kayak</u> | <u>Kayaw</u> |
|----------------|---------------------------|----------------------|--------------|--------------|--------------|
| bá | bá ^{bəj} | bí ^{bè?} | | | |
| phlón | phlón ^{phlón} | phl ^{phlón} | | | |
| dí | khó | bú ^{bō} | | | |
| kwāy | phò ^{phò} | dí | | | |
| nōy | khwey ^{khwey} | lú ^{lú?} | | | |
| (Tai loan) lāw | thāy ^{thēi} | bú [?] | | | |
| (Tai loan) rí | káa [?] | pō | | | |
| bí | mūy ^(Tai loan) | thai [?] | | | |
| (Tai loan) phí | bāy ^{bái} | bí ^{bè?} | | | |
| chāy | chōy ^{chōy} | chú | | | |
| chōy | phou | khú [?] | | | |
| lēy | khū ^{khū} | dí | | | |
| pāy | dāy ^{dīy} | bó | | | |
| khū | phā ^{phāy} | khó | | | |
| tút | khō ^{khō} | tú [?] | | | |
| lōy | lōy ^{lōy} | mó | | | |
| thōm | khōt ^{khōt} | bló | | | |
| khāw | khēi ^{khēi} | kōu [?] | | | |
| phā | khāi ^{khāi} | yā | | | |
| rā | kāi ^{kāi} | phfú | | | |
| phón | yā ^{yā} | dúk | | | |
| cō | phā ^{phāy} | pú | | | |
| pim | mōu ^{mōu} | tō | | | |
| thōy | pāy ^{pāy} | blai [?] | | | |
| khéy | cōy ^{cōy} | tū | | | |
| phú | tōy ^{tōy} | cē | | | |
| cūy | blā ^{blā} | khák | | | |
| | kāa ^{kāa?} | thai [?] | | | |

Pa-OPwoSgawKayanKayahKayan

lòm

pwà?

tên

phây

mái

kà) ri'

khé

bôn

(pà) ló

mè?

kôn

dú?

láy

dō

lō

cōk

nōn

pā

pāj

lēj

síc

hó

câu

lú?

mí

mōn

pō?

gwà

tān

pō?

chú

sēr

pō?

pā

pā

pā

phā

phā

phā

✓ 1. *pi^B (C3) 'winged termite' 11/25/25

Pa-O: pi³³ (S), phi⁵⁵ (N) (*p-)

Kayan: pi¹¹

Kayah: pi¹¹

Bwe: pa³³ (H)

Kayaw: pi¹¹

✓ P=55 Pwo: phi³³ (S), phi¹¹ (Amla), phi³³ (N)

Sgaw: pi³¹ (S), pi¹¹ (N)

✓ 2. *thwi^B (C3H) 'dog' 2/21

Pa-O: thwi³³ (S), thwi⁵⁵ (N)

Kayan: thwi¹¹

Kayah: thwi¹¹

Bwe: thwi³³ (H)

Kayaw: thwi¹¹ (N)

Pwo: thwi³³ (N), thwi⁵⁵ (S), thwi⁵⁵ (Amla)

Sgaw: thwi⁴⁵ (S), thwi¹¹/chwi¹¹ (N), shwi¹¹ (R)

✓ 3. *khwī^B (C3H) 'chameleon' 11/25/25

Pa-O: kwi³³ (S), kwi⁵⁵ (N)

Kayan: khwi¹¹

Kayah: khwi¹¹

Bwe: khwi³³ (H)

Kayaw: kwi¹¹

Pwo: khwi³³ (N), khwi⁵⁵ (S), khwi⁵⁵ (Amla)

Sgaw: khwi⁴⁵ (S), khwi¹¹ (N), khwi¹¹ (R)

4. *kwi^B (BM) = -) 'parrot'

Pa-O: ~ ki⁵⁵ (N.)

Kayan: ~ khi''

Kayah: ~ khwi''

Bwe: ~ k(h)i³³ (H)

Kayaw: ~ ki'' / khi''

Pwo: ~ kei³³ (S.)

Sgaw: ~ ki⁴⁵ (S.), ki²² (R); ~ ki²¹ (N.)

*C

5. *lwi^B (*BL) = 3) 'dove'

26/1/25

Pa-O: ~ lwi⁵⁵ (S.), lwi⁵³ (N.)

Kayan: ~ lwi''

Kayah: ~ lwi''

Bwe: ~ lwi³³ (H)

Kayaw: ~ li''

Pwo: ~ lei'' (M.), lwi³³ (S.), lwi⁵⁵ (Am La)

Sgaw: ~ lwi³¹, ~ lwi'' (R), ~ lwi'' (N.)

6. *hl/?li^B (BH/BM) =) 'squirrel'

13/1/25

Pa-O: li³³ (S.), li⁵⁵ (N.)

Bwe: li'' (H, should be 33) < *C3

Pwo: lei³³ (M.), lei⁵⁵ (S.), lei⁵⁵ (Am La)

Sgaw: li⁴⁵ (S.), li'' la'' (R), li⁴⁵ (N.) = < *C1-L

7. * de^B (BM) 'frog' mn

Pa-O: de^{33} (s.), de^{55} (N.)

Kayan: dai^{11}

Kayah: di^{11}

Bwe: di^{33} (H)

Kayaw: di^{11}

Pwo: di^{33} (N.), di^{55} (Am La), di^{55} (S.)

Sgaw: de^{45} (S.), de^{21} (N.) &

8. * g-hne^A (AH): 'honey bee' $\frac{2}{20}$ (uanb)

Pa-O: ne^{31} (S., N.)

Kayan: nai^{53}

Kayah: ni^{33}

Bwe: $\text{gə}^{33}\text{-nɪ}^{33}$ (H) (Notice: ^{*nA} tone, vowel)

Kayaw: ni^{55}

Pwo: ni^{35} (N.), ni^{53} (S.), ni^{31} (Am La)

Sgaw: ne^{55} (S.), $\text{kə}^{44}\text{ne}^{44}$ (N.) (Notice: tone, vowel)

9. * khe^A (AH) 'tiger' $\frac{2}{20}$

Pa-O: ke^{31} (S., N.)

Kayan: khai^{53}

Kayah: khi^{33}

Bwe: khi^{55}

Kayaw: khi^{55}

Pwo: khi^{35} (N.), khi^{53} (S.), khi^{31} (Am La)

Sgaw: khe^{33} (R)

10. *p-²de^A (AM) 'rabbit'

Kayan: de⁵³

Kayah: de³³

Bwe: pə³³ de³³ (H)

Kayaw: de⁵⁵

Pwo: pə³³ de⁵⁵ (N.), pə'the²¹ (Am La, S.)

Sgaw: pə'' de³³ (R), pə' de⁴⁴ (N.), pə'the²¹ (S.)

11. *ldwe^B (BM) 'grasshopper'

Pa-O: dwe³³ (S.), dwe⁵⁵ (N.)

Kayan: dwe''

Bwe: de³³ - (H)

Kayaw: de''

Pwo: ~~thwe''~~ (N.), ~~thwe⁵⁵~~ (Am La), ~~thwe³³~~ (S.) *B > BL (rd-B)

Sgaw: dwe⁴⁵, dwe²¹ (R), dwe²¹ (N.)

12. *chwe^B (BH) 'crab'

Pa-O: chwe³³ (S.), chwe⁵⁵ (N.)

Kayan: chwe''

Kayah: chwa'' (irregular vowel)

Bwe: ~~fw~~we³³ (H)

Kayaw: che''

Pwo: chwe³³ (N.) chwe⁵⁵ (S., Am La)

Sgaw: chwe⁴⁵, shwe'' (R), chwe'' ~ shwe'' (N.)

insect?

13. *gra⁸ (BL) 'chicken louse'

c-3 Pa-O: kre⁵⁵ (N.);

Kayan: ca''

Kayah: khre''

Kayaw: ca''

Pwo: xa'' (N), ch⁵³ xa³³ (S.), ch³⁷ xa⁵⁵ (Am La)

Sgaw: xa³⁷ (S), xa'' (R), ch⁴⁴ xa'' (N.)

14. *b-na⁸ (BL) 'buffalo'

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Pa-O: pa'' na⁵⁵ (S), pa²¹ na⁵³ (N.)

Kayan: bu⁵⁵ na''

Kayah: pe⁵⁵ ne''

Bwe: ba³³ ne³³ (H)

Kayaw: pa³³ na''

b-na⁸ { Pwo: pa'' ne'' (N.) (irregular vowel), pa'' na³³ (S.), pa'' na⁵⁵ (Am La)
Sgaw: pa'' na³⁷ (S), pa²¹ na'' (R), pa⁴⁵ na'' / pa²¹ na'' (N.)

15. *t/s-hma⁸ / *t/s-ma⁸ (N) 'crocodile'

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Bwe: θa³³ me³³

Kayaw: ta'' ma''

Pwo: sa³³ ma³³ (S.), ma⁵⁵ (N.; Am La)

Sgaw: ta'' ma⁴⁵ (S), θa³³ ma'' ~ sa⁴⁵ ma'' ~ sa⁵⁵ ma'' (N.)

24

16. *jo^h (AL) 'pangolin'Pa-O: jo⁵³ (N.), ju³³ (N.)Kayan: ja^u 33Kayah: ju¹¹Bwe: ju³³ - 00³³ (H)Kayaw: ju³³Pwo: jo⁵⁵ (N.), j^h 11 (R. (Am La), j^h 11 (S.)Sgaw: ju³³ h³³ (S.), jo³³ h³³ 11 ~ jo³³ h³³ 11 ~ zo⁴⁴ h³³ 11 (N.)17. *po^B (BM) 'ox'

25

Pa-O: po⁵⁵ (S.), pho⁵³ (N.)^{=B3}Kayan: pa^u 11Kayah: pu¹¹Bwe: bo³³ (H)Kayaw: pu¹¹18. *tho^B (BH) 'bird'

26

Kayan: tha^u 11Kayah: thu¹¹Bwe: tho³³ (H)Kayaw: thu¹¹Pwo: thou³³ (N.), thu⁵⁵ (S.), thu⁵⁵ (Am La)Sgaw: thu⁴⁵ (S.), tho¹¹ (R.), tho¹¹ (N.)

119. *khei⁸ (PH) 'tick' (TB *d-kij, *d-kəy)
 Pa-O: k¹⁵⁵(N.)
 Kayan: k^{hi}"
 Kayah: k^{hə}"
 Bwe: k^{hi}³³ (H)
 Kayaw: k^{hi}"
 Pwo: k^{hei}³³ (N.), k^{hi}⁵⁵ (S.), k^{hi}⁵⁵ (Am La)
 Sgaw: k^{hi}⁴⁵ (S.), k^{hi}" (N.)

20. *d-khei^A (AH) 'barking deer' (TB *d-kij, *d-kəy)
 Pa-O: k^{hi}³¹ (S.), k^{hi}³¹ (N.)
 Kayan: k^{hi}⁵³
 Kayah: k^{hə}³³
 Bwe: do" k^{hi}⁵⁵ (H)
 Kayaw: k^{hi}⁵⁵
 Pwo: k^{hi}⁵³ b⁵⁵" (S.), k^{hi}³¹ (Am La)

21. *wei^A (AL) 'mole' (TB *bwiγ, bway)
 Pa-O: wⁱ⁵³ (S.), wⁱ³³ (N.)
 Kayah: wⁱ" (irregular vowel)
 Bwe: wⁱ³³ (H)
 Kayaw: wⁱ³³
 Pwo: w^{ei}⁵⁵ (N.), β^{hi}" (S.), w^{ai}" (Am La)
 Sgaw: w^e³³ (S.), wⁱ⁴⁴ (N.)

- ✓ 22. *rou^B (BL) 'snake' (TB *b-ru.l) b
 Pa-O: ru⁵⁵ (S), ru⁵³ (N.)
 Kayan: rau¹¹ (irregular vowel)
 Kayah: ru¹¹ ~ ru³¹
 Bwe: Ru³³ (H)
 Kayaw: ru¹¹
 Pwo: rou¹¹ (N.), ju³³ (S.), ju⁵⁵ (Am La)
 Sgaw: ju¹¹ (R), ju¹¹ (N.), ju³¹ (S.)

- ✓ 23. *jou^B (BL) 'mouse' (TB *b-yuw, *b-yaw) xg
 Pa-O: ju⁵⁵ (S), ju⁵³ (N.)
 Kayan: ju¹¹
 Kayah: jo¹¹
 Bwe: ju¹¹ (H) aon/lu 33
 Kayaw: ju¹¹
 Pwo: jou¹¹ (N.), ju³³ (S.), ju⁵⁵ (Am La)
 Sgaw: zi¹¹ (R), zi¹¹ ~ ju¹¹ (N.), ju³¹ (S.)

24. *t-?bay^A (AM) 'centipede' m=852
 Pa-O: ta⁴⁵ bay³¹ (N.), ta⁴⁵ bay³¹ (S.)
 Kayan: ta¹¹ bay⁵³
 Pwo: da⁴⁵ b⁵⁵, da²¹ b⁵³ (S.), da²¹ b⁵³ (Am La)
 Sgaw: da⁴⁵ b⁴⁴ (N.), da¹¹ b⁴⁴ (S.)
~~da²¹~~

✓ 25. *gaj^A (AL) 'spider' 112/622
 Pa-O: kaj⁵³ (S), koj³³ kau³¹ (N)
 Kayan: kaj³³ Kayah: pho⁵⁵ ke¹¹ = A³
 Bwe: ga¹¹ gu¹¹ (irregular tone, should be ³³) = A³
 Kayaw: ko³³
 Pwo: khej⁵⁵ (N), k^ho¹¹ (S), k^haj¹¹ (Am La)

✓ 26. g-chaj^A (AH) 'elephant' (TB *tshaj, *tsaj) 226
 Pa-O: chaj³¹ (N, S)
 Kayan: chaj⁵³
 Kayah: t⁰⁷ε¹¹ che³³
 Bwe: ga³³ fa⁵⁵ (H)
 Kayaw: ro¹¹ cho⁵⁵
 Pwo: ka¹¹ chej³⁵ (N), ko¹¹ cho⁵³ (S), ka¹¹ chaj³¹ (Am La)
 Sgaw: ko¹¹ cho⁵⁵ (S), ko²¹ sho³³ (R), ko¹¹ cho⁴⁴ (N)

✓ 27. *fram^A (AL) ^① ^② ^③ ^④ ^⑤ ^⑥ ^⑦ ^⑧ ^⑨ ^⑩ ^⑪ ^⑫ ^⑬ ^⑭ ^⑮ ^⑯ ^⑰ ^⑱ ^⑲ ^⑳ ^㉑ ^㉒ ^㉓ ^㉔ ^㉕ ^㉖ ^㉗ ^㉘ ^㉙ ^㉚ ^㉛ ^㉜ ^㉝ ^㉞ ^㉟ ^㊱ ^㊲ ^㊳ ^㊴ ^㊵ ^㊶ ^㊷ ^㊸ ^㊹ ^㊺ ^㊻ ^㊼ ^㊽ ^㊾ ^㊿ ¹ ² ³ ⁴ ⁵ ⁶ ⁷ ⁸ ⁹ ¹⁰ ¹¹ ¹² ¹³ ¹⁴ ¹⁵ ¹⁶ ¹⁷ ¹⁸ ¹⁹ ²⁰ ²¹ ²² ²³ ²⁴ ²⁵ ²⁶ ²⁷ ²⁸ ²⁹ ³⁰ ³¹ ³² ³³ ³⁴ ³⁵ ³⁶ ³⁷ ³⁸ ³⁹ ⁴⁰ ⁴¹ ⁴² ⁴³ ⁴⁴ ⁴⁵ ⁴⁶ ⁴⁷ ⁴⁸ ⁴⁹ ⁵⁰ ⁵¹ ⁵² ⁵³ ⁵⁴ ⁵⁵ ⁵⁶ ⁵⁷ ⁵⁸ ⁵⁹ ⁶⁰ ⁶¹ ⁶² ⁶³ ⁶⁴ ⁶⁵ ⁶⁶ ⁶⁷ ⁶⁸ ⁶⁹ ⁷⁰ ⁷¹ ⁷² ⁷³ ⁷⁴ ⁷⁵ ⁷⁶ ⁷⁷ ⁷⁸ ⁷⁹ ⁸⁰ ⁸¹ ⁸² ⁸³ ⁸⁴ ⁸⁵ ⁸⁶ ⁸⁷ ⁸⁸ ⁸⁹ ⁹⁰ ⁹¹ ⁹² ⁹³ ⁹⁴ ⁹⁵ ⁹⁶ ⁹⁷ ⁹⁸ ⁹⁹ ¹⁰⁰ ¹⁰¹ ¹⁰² ¹⁰³ ¹⁰⁴ ¹⁰⁵ ¹⁰⁶ ¹⁰⁷ ¹⁰⁸ ¹⁰⁹ ¹¹⁰ ¹¹¹ ¹¹² ¹¹³ ¹¹⁴ ¹¹⁵ ¹¹⁶ ¹¹⁷ ¹¹⁸ ¹¹⁹ ¹²⁰ ¹²¹ ¹²² ¹²³ ¹²⁴ ¹²⁵ ¹²⁶ ¹²⁷ ¹²⁸ ¹²⁹ ¹³⁰ ¹³¹ ¹³² ¹³³ ¹³⁴ ¹³⁵ ¹³⁶ ¹³⁷ ¹³⁸ ¹³⁹ ¹⁴⁰ ¹⁴¹ ¹⁴² ¹⁴³ ¹⁴⁴ ¹⁴⁵ ¹⁴⁶ ¹⁴⁷ ¹⁴⁸ ¹⁴⁹ ¹⁵⁰ ¹⁵¹ ¹⁵² ¹⁵³ ¹⁵⁴ ¹⁵⁵ ¹⁵⁶ ¹⁵⁷ ¹⁵⁸ ¹⁵⁹ ¹⁶⁰ ¹⁶¹ ¹⁶² ¹⁶³ ¹⁶⁴ ¹⁶⁵ ¹⁶⁶ ¹⁶⁷ ¹⁶⁸ ¹⁶⁹ ¹⁷⁰ ¹⁷¹ ¹⁷² ¹⁷³ ¹⁷⁴ ¹⁷⁵ ¹⁷⁶ ¹⁷⁷ ¹⁷⁸ ¹⁷⁹ ¹⁸⁰ ¹⁸¹ ¹⁸² ¹⁸³ ¹⁸⁴ ¹⁸⁵ ¹⁸⁶ ¹⁸⁷ ¹⁸⁸ ¹⁸⁹ ¹⁹⁰ ¹⁹¹ ¹⁹² ¹⁹³ ¹⁹⁴ ¹⁹⁵ ¹⁹⁶ ¹⁹⁷ ¹⁹⁸ ¹⁹⁹ ²⁰⁰ ²⁰¹ ²⁰² ²⁰³ ²⁰⁴ ²⁰⁵ ²⁰⁶ ²⁰⁷ ²⁰⁸ ²⁰⁹ ²¹⁰ ²¹¹ ²¹² ²¹³ ²¹⁴ ²¹⁵ ²¹⁶ ²¹⁷ ²¹⁸ ²¹⁹ ²²⁰ ²²¹ ²²² ²²³ ²²⁴ ²²⁵ ²²⁶ ²²⁷ ²²⁸ ²²⁹ ²³⁰ ²³¹ ²³² ²³³ ²³⁴ ²³⁵ 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28. *khan^A (A') 'bamboo rat (big kind)' 𣎵

Pa-O: ju⁵³ khan³¹ (N.), -

Kayan: ju¹¹ khay⁵³ = A'

Kayah: -

Bwe: khe⁵⁵ = A'

Kayaw: ju¹¹ kha⁵⁵ = A'

Pwo: khe³⁵ (N.), khay³¹ (Am La), kha⁵³ (S.)



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