International Journal of Jyotish Research: 2025; 10(2): 62-76

International Journal of Jyotish Research
(वेदचक्षु)

ISSN: 2456-4427
Impact Factor: RJIF: 5.11
Jyotish 2025; 10(2): 62-76

www.jyotishajournal.com
Received: 07-06-2025
Accepted: 10-07-2025

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A ready reckoner for names and Rasis of Nadi Amsas

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DOI: https://www.doi.org/10.22271/24564427.2025.v10.i2b.272

Abstract
A ready-reckoner for determining the name and Rasi of the Nadi amsa of a given Nirayana longitude is presented. The comparatively very small Longitude interval used in the Nadi amsa requires that the accuracy in the time of birth should be of the order of seconds for interpreting a horoscope based on it. It is argued that the names of the Zodiac signs, Aries, Taurus, etc., often used for the Rasi names, Mesha, Vrishabha, etc., in the Astrological literature available in English are not quite appropriate, since the Zodiac signs and the corresponding intended Rasis do not represent the same Longitude intervals on the Ecliptic, and hence, at times, may lead to some confusion.

Keywords: Nadi astrology, Nadi Amsas, Nadi chart, Rasis, zodiac signs, zodiacal constellations

Introduction
Nadi amsa, probably, has the smallest Nirayana longitude interval among the several divisional schemes employed in the interpretation of a horoscope. Nadi amsas are formed by dividing each Rasi of 30 degrees Longitude interval into 150 parts in order to fix the positions of Lagna and the nine Grahas more accurately at the time of birth with a view to facilitating accurate horoscope-based predictions. Two different schemes are followed in the division of a Rasi into Nadi amsas. In the first scheme a Rasi is divided evenly into 150 parts with each Nadi amsa having a Longitude interval of 12 arcminutes. In the second scheme a more detailed method is used, resulting in an uneven division of a Rasi. The boundaries of the Longitude intervals in the Shodasa Varga, the elaborate divisional schemes in the preparation of a horoscope, Rasi (1), Hora (2), Drekkana (3), Chaturamsa (4), Saptamsa (7), Navamsa (9), Dasamsa (10), Dwadasamsa (12), Shodasamsa (16), Vimsamsa (20), Chatur Vimsamsa (24), Sapta Vimsamsa (27), Trimsamsa (30), Kha Vedamsa (40), Akha Vedamsa (45) and Shashtiamsa (60), are all merged together to obtain 150 non-overlapping Longitude intervals. The numbers given above inside the brackets indicate the divisors of the Rasis in each case. In a horoscope prepared in Kerala only six of the above divisional schemes, namely, Rasi, Hora, Drekkana, Navamsa, Trimsamsa and Dwadasamsa, which are referred to as Shadvargas, are normally tabulated.

Unlike the amsas of the other divisional schemes, each of the 150 Nadi amsas has a separate name. There are two slightly different name-sequences that are used for the Nadi amsas. These two name-sequences, which are identified as C. G. Rajan and Deva Keralam and taken from Santhanam (1992) [1], are listed in Table 1. It appears that both the lists are derived from a single original source, Deva Keralam (Chandra Kala Nadi) by Achyuta of Kerala, and that one of the reasons for the slight differences in the sequences of names could be the way the Sanskrit Slokas were translated from the manuscript. For example, the Nadi amsa, Sudhakarasama under Deva Keralam in Table 1 appears against two Nadi amsas, Sadaakari and Sama under C. G. Rajan, and the Nadi amsa, KamadrukkaraVeerini, appears against two Nadi amsas, Kaamadhuk and Karaveerani. Similarly, under Deva Keralam there are two nearby Nadi amsas, Sudha and Mritamsuga against the Nadi amsa, Sadamritamsukala, under C. G. Rajan.

The details regarding the determination of the Nadi amsas and preparation of a Nadi amsa chart from the known Nirayana longitudes are available over the internet [2], [3]. However, the lack of proper examples, and inconsistencies in the examples, wherever they have been provided, and the procedures described therein make them less appealing.

It is felt that a ready reckoner for Nadi amsa and Nadi rasi would be highly helpful to both the dabblers in and practitioners of Nadi astrology.

Method and Materials

The Rasi names, Mesha, Vrishabha, Mithuna, Karkataka, Simha, Kanya, Tula, Vrischika, Dhanus, Makara, Kumbha, and Mina are the Sanskrit equivalents of the Zodiac signs, Aries, Taurus, Gemini, Cancer, Leo, Virgo, Libra, Scorpio, Sagittarius, Capricorn, Aquarius and Pisces. In most of the Astrological literature, especially, those available in English, the equivalent names of Zodiac signs are used instead of the names of Rasis, which might, occasionally, be confusing. It is to be noted that the Rasis and the corresponding Zodiac signs do not represent the same intervals of Longitude on the Ecliptic, the apparent annual path of the Sun in the sky with respect to the background stars. For example, the Sun is in the Zodiac sign Libra during 23 September and 24 October, while it is in the Tula rasi between about 17 October and about 16 November. The entry and exit of the Sun in Tula rasi occur about 24 days after its entry and exit, respectively, in the Zodiac sign Libra. According to the Panchamgams, the reference for observing all festivals in India, Dakshinayanam and Utharayanam (journey of the Sun towards South and North from its corresponding extreme positions in North and South) begin after Karkataka and Makara Samkranthis, respectively, and Vishu (day and night of equal lengths) occurs on Mesha Samkranthi. The widely used Gregorian calendar dates, which are usually referred to as English calendar dates, of these three events are about 16 July, 15 January and 14 April. It is a commonplace knowledge that the Sun is at extreme North on 20-21 June (Summer Solstice), at extreme South on 21-22 December (Winter Solstice) and on Equator on 20-21 March (Vernal Equinox, when the day and night are of equal durations), with the dates of all the events systematically occurring about 24 days before the actual celebration dates of Dakshinayanam, Utharayanam and Vishu, respectively.

The reason for the advancement of English calendar dates of the annual celebration events, like, Dakshinayanam, etc., with respect to the actual observational dates of the corresponding events from the positions of the Sun in the sky is the difference in the definition of a year and the resulting difference in the lengths of the year that are used in the two calendar systems. The Panchamgams follow the Sidereal year of 365.2563630 days, which is the time interval between two successive returns of the Sun to the same point on the Ecliptic with respect to the stars. On the other hand, the Gregorian calendar and the Zodiac signs follow the Tropical year of 365.2421871 days, which is the time interval between two successive returns of the Sun to the Vernal Equinox, the intersection point of the plane of the equator of the Earth and the Ecliptic where the Sun moves from South to North. The seasons which one observes on the Earth follow the tropical year. The difference in the lengths of the Sidereal and Tropical years occurs because of the continuous westward movement of the Vernal Equinox, which is about 50.29 arcseconds per year, opposite to the apparent motion of the Sun in the sky, due to the precession of the Earth which takes about 26000 years to complete one full cycle of 360 degrees.

The use of Sidereal year makes the boundaries of the Rasis fixed with respect to the stars, while that of the Tropical year makes the boundaries of the Zodiac signs continuously shift towards the West with respect to the stars. The mean Ayanamsa, which is the Longitude of the fixed zero point on the Ecliptic measured from the mean Vernal Equinox of the date, that define the Rasi boundaries at 00:00 hours on 1 September, 2025 is 24-degree 12 arcminute 56 arcsecond. An extrapolation of the above value of the Ayanamsa shows that the boundaries of both the Zodiac signs and the Rasis coincided at an epoch close to the end of the third century CE, and the English calendar dates of Dakshinayanam, Utharayanam and Vishu coincided, respectively, with the dates of Summer and Winter Solstices, and Vernal Equinox. The difference between the Sidereal year and the Tropical year is 0.0142 day (20.41 minutes), which is the time taken by the Sun to traverse the above mentioned 50.29 arcseconds in the sky; such a difference in the two years, Sidereal and Tropical, will cause a shift of 1 day in the Gregorian Calendar dates of Vishu, Utharayanam and Dakshinayanam in about 70.4 years, and the accumulated number of days over the years, since they all coincided last with the dates of Vernal Equinox, and Winter and Summer Solstices, would be about 24. It is to be noted that the dates of all the festivals based on the Luni-Solar calendar also would be advancing as in the case of Dakshinayanam, etc., since the Lunar months, Chaitra, Vishaka, etc., are based on the Rasi boundaries fixed with respect to the stars and the resulting Sidereal year.

It may also be noted that the boundaries of the Zodiacal constellations and Zodiac signs do not overlap. The entire sky has been divided into eighty-eight Constellations. The Sun passes through thirteen of these during its annual motion across the sky. They are: Aries (Ram), Taurus (Bull), Gemini (Twins), Cancer (Crab), Leo (Lion), Virgo (Maiden), Libra (Balance), Scorpius (Scorpion), Ophiuchus (Serpent-bearer), Sagittarius (Archer), Capricornus (Sea-goat), Aquarius (Water-bearer) and Pisces (Fishes). The spans of these Constellations on the Ecliptic are not the same; in fact, there is a large range in their spans, and hence, the Sun spends significantly varying amounts of time in each of these Constellations. In fact, the Sun spends more time, almost three times, in Ophiuchus than in Scorpius. The Moon and Planets are always found within the Zodiacal belt, a band of about eight degrees on both sides of the Ecliptic. They pass through several other Constellations apart from the Zodiacal constellations during their motions across the sky.

In this article Rasi names are used instead of the equivalent names of the Zodiac signs because both do not represent the same corresponding Longitude intervals, as explained before. The Rasis have been divided into four groups for Astrological reasons: (1) Mesha, Vrishabha and Mithuna; (2) Karkataka, Simha and Kanya; (3) Tula, Vrischika and Dhanus, and (4) Makara, Kumbha and Mina. The first Rasi of each group is considered to be a Chara rasi, the second to be a Sthira rasi and the third to be a Dwiswabhava rasi, exhibiting the characteristics of both the Chara and Sthira rasis. Starting from the beginning, the Nadi amsas of the Chara rasis are named sequentially as given in Table 1, while those of the Sthira rasis are named in the reverse order. The first Nadi amsa of a Chara rasi is Vasudha and its last Nadi amsa is Parameswari, while the corresponding Nadi amsas of a Sthira rasi are Parameswari and Vasudha. The names of a Dwiswabhava rasi follow a still another pattern: the names start from the middle of the sequence given in Table 1, and on reaching the end, the names start from the beginning of the sequence. The name of the first Nadi amsa of a Dwiswabhava rasi is, therefore, Mahaamaayaa (Mahaamaari) and that of the last is Trailokyamohanakari. The Rasi of a Nadi amsa in a Rasi is defined in a way very similar to that of its naming. The Rasi of the first Nadi amsa in the Chara rasi of each group is

the Chara rasi itself, and the Rasi of the next Nadi amsa is the Rasi which comes next. For example, the Rasi of the first Nadi amsa in the Chara rasi, Tula, is Tula itself, and that of the next Nadi amsa is Vrischika. The Rasis of the first and last Nadi amsas of the Sthira rasi in the group are, repectively, the Rasis of the 150th and first Nadi amsas of the Chara rasi in the same group. The Rasi of the 150th Nadi amsa of Tula rasi is Mina, and hence, the Rasi of the first Nadi amsa in Vrischika is Mina, and the Rasi of the last Nadi amsa of Vrischika is Tula. The Rasis of the first and last Nadi amsas in the Dwiswabhava rasi are the Rasis of the 76th and 75th Nadi amsas of the Chara rasi in the same group. Therefore, the Rasis of the first and last Nadi amsas in Dhanus rasi are, respectively, Makara and Dhanus.

Table 1: Serial Numbers and names of Nadi amsas

Serial No	Names of Nadi amsas		Serial No	Names of Nadi amsas		Serial No	Names of Nadi amsas	
	C. G. Rajan	Deva Keralam		C. G. Rajan	Deva Keralam		C. G. Rajan	Deva Keralam
1	Vasudha	Vasudha	51	Gahvaraa	Kanthaa	101	Saara (Sauraa)	Nirgathaa
2	Vaishnavi	Vaishnavi	52	Kundini	Vishakhya (Vishaa)	102	Sangeetha	Saaraa
3	Brahmi	Braahi (Brahmi)	53	Raudra (Kaantha)	Vishanaasini	103	Sumathaa	Samagaa
4	Kalakoota	Kalakoota	54	Vishaa	Nirmada	104	Viswambhara	Samadaa
5	Sankari	Sankari	55	Vishavinaasini	Seethala	105	Kumari	Samaa
6	Sadaakari	Sudhakarasama	56	Nirmadaa	Nimnaa	106	Kokila	Viswambharaa
7	Samaa	Saumya	57	Seethalaa	Preeta	107	Kunjarakriti	Kumari
8	Saumya	Suraa	58	Nimnaa	Priyavivardhani	108	Aindira	Kokila
9	Suraa	Maaya	59	Pirida (Preeta)	Manaadha (Maanaghna)	109	Swaahaa	Kunjarakrithi
10	Maaya	Manoharaa	60	Priyavaasini	Durbhaga	110	Swaraa	Indra
11	Manoharaa	Maadhavi	61	Maanaghna	Chitraa	111	Vahni	Swaahaa
12	Maadhavi	Manjuswana	62	Durbhagaa	Vichitra	112	Preethi	Swadha
13	Manjuswana	Ghoraa	63	Chitraa (Chittaa)	Chiranjivini	113	Rakshajala	Vahni
14	Ghoraa	Kumbhini	64	Chitrini	Bhoopa	114	Plava	Peethaa
15	Kumbhini	Kutilaa	65	Chiranjeevani	Gadaaharaa	115	Vaaruni	Yakshi
16	Kutilaa	Prabhaa	66	Virupa (Bhoopa)	Naalaa	116	Madiraa	Achalaprabha
17	Prabhaa	Paraa	67	Gadaharaa	Gaalavee	117	Maitri	Saarini
18	Paraa	Payaswini	68	Naala	Nirmalaa	118	Haarini	Madhuraa
19	Payaswini	Maala	69	Nalini	Nadi (River)	119	Harini	Maitri
20	Maala	Jagathi	70	Nirmala	Sudha	120	Maruth	Harini
21	Jagathi	Jarjhari	71	Nadi (River)	Mritamsuga	121	Dhananjaya	Haarini
22	Jarjharaa	Dhruvaa	72	Sadamritamsukaa	Kaali	122	Dhanakari	Maruthaa
23	Dhruva	Musalaa	73	Chapalaa	Kaalika	123	Dhanadaa	Dhananjaya
24	Musalaa	Mudgala (Mudgara)	74	Saankuraa	Kalushankura	124	Mricchaya	Dhanakari
25	Mudgara	Pasaa	75	Trailokyamohanakari	Trailokyamohanakari	125	Ambuja	Dhanada
26	Pasaa	Chambaka	76	Mahaamaari	Mahaamaayaa	126	Isaani	Kachchapa
27	Champaka	Daamini	77	Suseethala	Suseethala	127	Thoolini	Ambuja
28	Daamini	Mahi	78	Sumatha (Subhaga)	Sukhadaa	128	Raudri	Isaani
29	Mahi	Kalushaa	79	Suprabhaa	Suprabhaa	129	Sivaa	Soolini
30	Kalushaa	Kamalaa	80	Sobhaa	Sobhaa	130	Sivakari	Raudri
31	Kamalaa	Kanthaa	81	Sobhana	Sobhana	131	Kalaa	Sivaasivakai
32	Kantha	Kaalaa	82	Sivadaa	Sivadaa	132	Kunda	Kalaa
33	Kaalaa	Karikaraa	83	Siva	Siva	133	Mukunda	Kundaa
34	Karikaraa	Kshamaa	84	Balaa	Balaa	134	Bharatha	Mukundaa
35	Kshamaa	Durdharaa	85	Jwalaa	Jwalaa	135	Pasithaa	Paratha (Bharata)
36	Durdhuraa	Dhurbhagaa	86	Gadaa	Gadaa	136	Kandini	Kadali
37	Dhurbhagaa	Viswa	87	Gaadaa	Gaadaa	137	Smaraa	Smaraa
38	Viswa	Visirnaa	88	Nootanaa	Sootana (Nootana)	138	Kunthala	Basitha
39	Visirnaa	Vihwala	89	Sumanoharaa	Sumanoharaa	139	Kokila	Kodala
40	Vikata Viswala	Anilaa	90	Somavalli	Somavalli	140	Paapa (Sin)	Kokilamsa
41	Aavilaa	Bhima	91	Somalatha	Somalatha	141	Kaamini	Kaamini
42	Vidrumaa	Sukhaprada	92	Mangala	Mangala	142	Kalasodhbhava	Kalasodhbhava
43	Sukhada	Snigdha	93	Mudrika	Mudrika	143	Viraprasoo	Viraprasoo
44	Snigdha	Sodaraa	94	Sootha	Sudha	144	Sankara	Sangaraa
45	Sodaraa	Surasundari	95	Mokshapavarga	Melaa	145	Sathayaghna	Sathayagna
46	Surasundari	Amrutaprasini	96	Valayaa	Apavargaa	146	Sadaavari	Sataavari
47	Amrithaplavini	Kaala (Karalaa)	97	Navaneetha	Pasyathaa	147	Brahvi (Virahapa)	Sragvi
48	Karalaa	KamadrukkaraVeerini	98	Nisakari	Navaneetha	148	Paatalini	Paatalini
49	Kaamadhuk	Gahwaraa	99	Nirvrithi	Nisachari	149	Pankajaa	Naagapankaja
50	Karaveerani	Kundini	100	Nigadaa	Nirvrithi	150	Parameswari	Parameswari

Table 2: Serial numbers of Nadi amsas (NN) and Rasis (RN) of the Longitude intervals in Mesha - Kanya Rasis

Longitude interval		1 Mesha		2 Vrishabha		3 Mithuna		4 Karkataka		5 Simha		6 Kanya	
Equal	Unequal	NN	RN	NN	RN	NN	RN	NN	RN	NN	RN	NN	RN
00:00 - 00:12	00:00:00 - 00:30:00	1	1	150	6	76	4	1	4	150	9	76	7
00:12 - 00:24	00:30:00 - 00:40:00	2	2	149	5	77	5	2	5	149	8	77	8
00:24 - 00:36	00:40:00 - 00:45:00	3	3	148	4	78	6	3	6	148	7	78	9
00:36 - 00:48	00:45:00 - 01:00:00	4	4	147	3	79	7	4	7	147	6	79	10
00:48 - 01:00	01:00:00 - 01:06:40	5	5	146	2	80	8	5	8	146	5	80	11
01:00 - 01:12	01:06:40 - 01:15:00	6	6	145	1	81	9	6	9	145	4	81	12
01:12 - 01:24	01:15:00 - 01:20:00	7	7	144	12	82	10	7	10	144	3	82	1
01:24 - 01:36	01:20:00 - 01:30:00	8	8	143	11	83	11	8	11	143	2	83	2
01:36 - 01:48	01:30:00 - 01:52:30	9	9	142	10	84	12	9	12	142	1	84	3
01:48 - 02:00	01:52:30 - 02:00:00	10	10	141	9	85	1	10	1	141	12	85	4
02:00 - 02:12	02:00:00 - 02:13:20	11	11	140	8	86	2	11	2	140	11	86	5
02:12 - 02:24	02:13:20 - 02:15:00	12	12	139	7	87	3	12	3	139	10	87	6
02:24 - 02:36	02:15:00 - 02:30:00	13	1	138	6	88	4	13	4	138	9	88	7
02:36 - 02:48	02:30:00 - 02:40:00	14	2	137	5	89	5	14	5	137	8	89	8
02:48 - 03:00	02:40:00 - 03:00:00	15	3	136	4	90	6	15	6	136	7	90	9
03:00 - 03:12	03:00:00 - 03:20:00	16	4	135	3	91	7	16	7	135	6	91	10
03:12 - 03:24	03:20:00 - 03:30:00	17	5	134	2	92	8	17	8	134	5	92	11
03:24 - 03:36	03:30:00 - 03:45:00	18	6	133	1	93	9	18	9	133	4	93	12
03:36 - 03:48	03:45:00 - 04:00:00	19	7	132	12	94	10	19	10	132	3	94	1
03:48 - 04:00	04:00:00 - 04:17:09	20	8	131	11	95	11	20	11	131	2	95	2
04:00 - 04:12	04:17:09 - 04:26:40	21	9	130	10	96	12	21	12	130	1	96	3
04:12 - 04:24	04:26:40 - 04:30:00	22	10	129	9	97	1	22	1	129	12	97	4
04:24 - 04:36	04:30:00 - 04:40:00	23	11	128	8	98	2	23	2	128	11	98	5
04:36 - 04:48	04:40:00 - 05:00:00	24	12	127	7	99	3	24	3	127	10	99	6
04:48 - 05:00	05:00:00 - 05:15:00	25	1	126	6	100	4	25	4	126	9	100	7
05:00 - 05:12	05:15:00 - 05:20:00	26	2	125	5	101	5	26	5	125	8	101	8
05:12 - 05:24	05:20:00 - 05:30:00	27	3	124	4	102	6	27	6	124	7	102	9
05:24 - 05:36	05:30:00 - 05:33:20	28	4	123	3	103	7	28	7	123	6	103	10
05:36 - 05:48	05:33:20 - 05:37:30	29	5	122	2	104	8	29	8	122	5	104	11
05:48 - 06:00	05:37:30 - 06:00:00	30	6	121	1	105	9	30	9	121	4	105	12
06:00 - 06:12	06:00:00 - 06:15:00	31	7	120	12	106	10	31	10	120	3	106	1
06:12 - 06:24	06:15:00 - 06:30:00	32	8	119	11	107	11	32	11	119	2	107	2
06:24 - 06:36	06:30:00 - 06:40:00	33	9	118	10	108	12	33	12	118	1	108	3
06:36 -	06:40:00 -	34	10	117	9	109	1	34	1	117	12	109	4

06:48	06:45:00												
06:48 - 07:00	06:45:00 - 07:00:00	35	11	116	8	110	2	35	2	116	11	110	5
07:00 - 07:12	07:00:00 - 07:20:00	36	12	115	7	111	3	36	3	115	10	111	6
07:12 - 07:24	07:20:00 - 07:30:00	37	1	114	6	112	4	37	4	114	9	112	7
07:24 - 07:36	07:30:00 - 07:46:40	38	2	113	5	113	5	38	5	113	8	113	8
07:36 - 07:48	07:46:40 - 08:00:00	39	3	112	4	114	6	39	6	112	7	114	9
07:48 - 08:00	08:00:00 - 08:15:00	40	4	111	3	115	7	40	7	111	6	115	10
08:00 - 08:12	08:15:00 - 08:30:00	41	5	110	2	116	8	41	8	110	5	116	11
08:12 - 08:24	08:30:00 - 08:34:17	42	6	109	1	117	9	42	9	109	4	117	12
08:24 - 08:36	08:34:17 - 08:40:00	43	7	108	12	118	10	43	10	108	3	118	1
08:36 - 08:48	08:40:00 - 08:45:00	44	8	107	11	119	11	44	11	107	2	119	2
08:48 - 09:00	08:45:00 - 08:53:20	45	9	106	10	120	12	45	12	106	1	120	3
09:00 - 09:12	08:53:20 - 09:00:00	46	10	105	9	121	1	46	1	105	12	121	4
09:12 - 09:24	09:00:00 - 09:20:00	47	11	104	8	122	2	47	2	104	11	122	5
09:24 - 09:36	09:20:00 - 09:22:30	48	12	103	7	123	3	48	3	103	10	123	6
09:36 - 09:48	09:22:30 - 09:30:00	49	1	102	6	124	4	49	4	102	9	124	7
09:48 - 10:00	09:30:00 - 09:45:00	50	2	101	5	125	5	50	5	101	8	125	8

Table 2: (continued). Serial numbers of Nadi amsas (NN) and Rasis (RN) of the Longitude intervals in Mesha - Kanya Rasis

Longitude interval		1 Mesha		2 Vrishabha		3 Mithuna		4 Karkataka		5 Simha		6 Kanya	
Equal	Unequal	NN	RN	NN	RN	NN	RN	NN	RN	NN	RN	NN	RN
10:00 - 10:12	09:45:00 - 10:00:00	51	3	100	4	126	6	51	6	100	7	126	9
10:12 - 10:24	10:00:00 - 10:30:00	52	4	99	3	127	7	52	7	99	6	127	10
10:24 - 10:36	10:30:00 - 10:40:00	53	5	98	2	128	8	53	8	98	5	128	11
10:36 - 10:48	10:40:00 - 11:00:00	54	6	97	1	129	9	54	9	97	4	129	12
10:48 - 11:00	11:00:00 - 11:06:40	55	7	96	12	130	10	55	10	96	3	130	1
11:00 - 11:12	11:06:40 - 11:15:00	56	8	95	11	131	11	56	11	95	2	131	2
11:12 - 11:24	11:15:00 - 11:20:00	57	9	94	10	132	12	57	12	94	1	132	3
11:24 - 11:36	11:20:00 - 11:30:00	58	10	93	9	133	1	58	1	93	12	133	4
11:36 - 11:48	11:30:00 - 12:00:00	59	11	92	8	134	2	59	2	92	11	134	5
11:48 - 12:00	12:00:00 - 12:13:20	60	12	91	7	135	3	60	3	91	10	135	6
12:00 - 12:12	12:13:20 - 12:30:00	61	1	90	6	136	4	61	4	90	9	136	7
12:12	12:30:00 -	62	2	89	5	137	5	62	5	89	8	137	8

- 12:24	12:40:00												
12:24 - 12:36	12:40:00 - 12:45:00	63	3	88	4	138	6	63	6	88	7	138	9
12:36 - 12:48	12:45:00 - 12:51:26	64	4	87	3	139	7	64	7	87	6	139	10
12:48 - 13:00	12:51:26 - 13:00:00	65	5	86	2	140	8	65	8	86	5	140	11
13:00 - 13:12	13:00:00 - 13:07:30	66	6	85	1	141	9	66	9	85	4	141	12
13:12 - 13:24	13:07:30 - 13:20:00	67	7	84	12	142	10	67	10	84	3	142	1
13:24 - 13:36	13:20:00 - 13:30:00	68	8	83	11	143	11	68	11	83	2	143	2
13:36 - 13:48	13:30:00 - 13:45:00	69	9	82	10	144	12	69	12	82	1	144	3
13:48 - 14:00	13:45:00 - 14:00:00	70	10	81	9	145	1	70	1	81	12	145	4
14:00 - 14:12	14:00:00 - 14:15:00	71	11	80	8	146	2	71	2	80	11	146	5
14:12 - 14:24	14:15:00 - 14:26:40	72	12	79	7	147	3	72	3	79	10	147	6
14:24 - 14:36	14:26:40 - 14:30:00	73	1	78	6	148	4	73	4	78	9	148	7
14:36 - 14:48	14:30:00 - 14:40:00	74	2	77	5	149	5	74	5	77	8	149	8
14:48 - 15:00	14:40:00 - 15:00:00	75	3	76	4	150	6	75	6	76	7	150	9
15:00 - 15:12	15:00:00 - 15:20:00	76	4	75	3	1	1	76	7	75	6	1	4
15:12 - 15:24	15:20:00 - 15:30:00	77	5	74	2	2	2	77	8	74	5	2	5
15:24 - 15:36	15:30:00 - 15:33:20	78	6	73	1	3	3	78	9	73	4	3	6
15:36 - 15:48	15:33:20 - 15:45:00	79	7	72	12	4	4	79	10	72	3	4	7
15:48 - 16:00	15:45:00 - 16:00:00	80	8	71	11	5	5	80	11	71	2	5	8
16:00 - 16:12	16:00:00 - 16:15:00	81	9	70	10	6	6	81	12	70	1	6	9
16:12 - 16:24	16:15:00 - 16:30:00	82	10	69	9	7	7	82	1	69	12	7	10
16:24 - 16:36	16:30:00 - 16:40:00	83	11	68	8	8	8	83	2	68	11	8	11
16:36 - 16:48	16:40:00 - 16:52:30	84	12	67	7	9	9	84	3	67	10	9	12
16:48 - 17:00	16:52:30 - 17:00:00	85	1	66	6	10	10	85	4	66	9	10	1

17:00 - 17:12	17:00:00 - 17:08:34	86	2	65	5	11	11	86	5	65	8	11	2
17:12 - 17:24	17:08:34 - 17:15:00	87	3	64	4	12	12	87	6	64	7	12	3
17:24 - 17:36	17:15:00 - 17:20:00	88	4	63	3	13	1	88	7	63	6	13	4
17:36 - 17:48	17:20:00 - 17:30:00	89	5	62	2	14	2	89	8	62	5	14	5
17:48 - 18:00	17:30:00 - 17:46:40	90	6	61	1	15	3	90	9	61	4	15	6
18:00 - 18:12	17:46:40 - 18:00:00	91	7	60	12	16	4	91	10	60	3	16	7
18:12 - 18:24	18:00:00 - 18:30:00	92	8	59	11	17	5	92	11	59	2	17	8
18:24 - 18:36	18:30:00 - 18:40:00	93	9	58	10	18	6	93	12	58	1	18	9
18:36 - 18:48	18:40:00 - 18:45:00	94	10	57	9	19	7	94	1	57	12	19	10
18:48 - 19:00	18:45:00 - 18:53:20	95	11	56	8	20	8	95	2	56	11	20	11
19:00 - 19:12	18:53:20 - 19:00:00	96	12	55	7	21	9	96	3	55	10	21	12
19:12 - 19:24	19:00:00 - 19:20:00	97	1	54	6	22	10	97	4	54	9	22	1
19:24 - 19:36	19:20:00 - 19:30:00	98	2	53	5	23	11	98	5	53	8	23	2
19:36 - 19:48	19:30:00 - 20:00:00	99	3	52	4	24	12	99	6	52	7	24	3
19:48 - 20:00	20:00:00 - 20:15:00	100	4	51	3	25	1	100	7	51	6	25	4

Table 2 (continued). Serial numbers of Nadi amsas (NN) and Rasis (RN) of the Longitude intervals in Mesha - Kanya Rasis

Longitude interval		**1 Mesha**		**2 Vrishabha**		**3 Mithuna**		**4 Karkataka**		**5 Simha**		**6 Kanya**	
Equal	**Unequal**	**NN**	**RN**	**NN**	**RN**	**NN**	**RN**	**NN**	**RN**	**NN**	**RN**	**NN**	**RN**
20:00 - 20:12	20:15:00 - 20:30:00	101	5	50	2	26	2	101	8	50	5	26	5
20:12 - 20:24	20:30:00 - 20:37:30	102	6	49	1	27	3	102	9	49	4	27	6
20:24 - 20:36	20:37:30 - 20:40:00	103	7	48	12	28	4	103	10	48	3	28	7
20:36 - 20:48	20:40:00 - 21:00:00	104	8	47	11	29	5	104	11	47	2	29	8
20:48 - 21:00	21:00:00 - 21:06:40	105	9	46	10	30	6	105	12	46	1	30	9
21:00 - 21:12	21:06:40 - 21:15:00	106	10	45	9	31	7	106	1	45	12	31	10
21:12 - 21:24	21:15:00 - 21:20:00	107	11	44	8	32	8	107	2	44	11	32	11
21:24 - 21:36	21:20:00 - 21:25:43	108	12	43	7	33	9	108	3	43	10	33	12
21:36 - 21:48	21:25:43 - 21:30:00	109	1	42	6	34	10	109	4	42	9	34	1
21:48 - 22:00	21:30:00 - 21:45:00	110	2	41	5	35	11	110	5	41	8	35	2
22:00 -	21:45:00 - 22:00:00	111	3	40	4	36	12	111	6	40	7	36	3

22:12													
22:12 - 22:24	22:00:00 - 22:13:20	112	4	39	3	37	1	112	7	39	6	37	4
22:24 - 22:36	22:13:20 - 22:30:00	113	5	38	2	38	2	113	8	38	5	38	5
22:36 - 22:48	22:30:00 - 22:40:00	114	6	37	1	39	3	114	9	37	4	39	6
22:48 - 23:00	22:40:00 - 23:00:00	115	7	36	12	40	4	115	10	36	3	40	7
23:00 - 23:12	23:00:00 - 23:15:00	116	8	35	11	41	5	116	11	35	2	41	8
23:12 - 23:24	23:15:00 - 23:20:00	117	9	34	10	42	6	117	12	34	1	42	9
23:24 - 23:36	23:20:00 - 23:30:00	118	10	33	9	43	7	118	1	33	12	43	10
23:36 - 23:48	23:30:00 - 23:45:00	119	11	32	8	44	8	119	2	32	11	44	11
23:48 - 24:00	23:45:00 - 24:00:00	120	12	31	7	45	9	120	3	31	10	45	12
24:00 - 24:12	24:00:00 - 24:22:30	121	1	30	6	46	10	121	4	30	9	46	1
24:12 - 24:24	24:22:30 - 24:26:40	122	2	29	5	47	11	122	5	29	8	47	2
24:24 - 24:36	24:26:40 - 24:30:00	123	3	28	4	48	12	123	6	28	7	48	3
24:36 - 24:48	24:30:00 - 24:40:00	124	4	27	3	49	1	124	7	27	6	49	4
24:48 - 25:00	24:40:00 - 24:45:00	125	5	26	2	50	2	125	8	26	5	50	5
25:00 - 25:12	24:45:00 - 25:00:00	126	6	25	1	51	3	126	9	25	4	51	6
25:12 - 25:24	25:00:00 - 25:20:00	127	7	24	12	52	4	127	10	24	3	52	7
25:24 - 25:36	25:20:00 - 25:30:00	128	8	23	11	53	5	128	11	23	2	53	8
25:36 - 25:48	25:30:00 - 25:33:20	129	9	22	10	54	6	129	12	22	1	54	9
25:48 - 26:00	25:33:20 - 25:42:51	130	10	21	9	55	7	130	1	21	12	55	10
26:00 - 26:12	25:42:51 - 26:00:00	131	11	20	8	56	8	131	2	20	11	56	11
26:12 - 26:24	26:00:00 - 26:15:00	132	12	19	7	57	9	132	3	19	10	57	12
26:24 - 26:36	26:15:00 - 26:30:00	133	1	18	6	58	10	133	4	18	9	58	1
26:36 - 26:48	26:30:00 - 26:40:00	134	2	17	5	59	11	134	5	17	8	59	2
26:48 - 27:00	26:40:00 - 27:00:00	135	3	16	4	60	12	135	6	16	7	60	3
27:00 - 27:12	27:00:00 - 27:20:00	136	4	15	3	61	1	136	7	15	6	61	4
27:12 - 27:24	27:20:00 - 27:30:00	137	5	14	2	62	2	137	8	14	5	62	5
27:24 - 27:36	27:30:00 - 27:45:00	138	6	13	1	63	3	138	9	13	4	63	6
27:36 - 27:48	27:45:00 - 27:46:40	139	7	12	12	64	4	139	10	12	3	64	7
27:48 - 28:00	27:46:40 - 28:00:00	140	8	11	11	65	5	140	11	11	2	65	8
28:00 - 28:12	28:00:00 - 28:07:30	141	9	10	10	66	6	141	12	10	1	66	9
28:12 - 28:24	28:07:30 - 28:30:00	142	10	9	9	67	7	142	1	9	12	67	10
28:24 - 28:36	28:30:00 - 28:40:00	143	11	8	8	68	8	143	2	8	11	68	11
28:36 - 28:48	28:40:00 - 28:45:00	144	12	7	7	69	9	144	3	7	10	69	12
28:48 - 29:00	28:45:00 - 28:53:20	145	1	6	6	70	10	145	4	6	9	70	1
29:00 - 29:12	28:53:20 - 29:00:00	146	2	5	5	71	11	146	5	5	8	71	2

29:12 - 29:24	29:00:00 - 29:15:00	147	3	4	4	72	12	147	6	4	7	72	3
29:24 - 29:36	29:15:00 - 29:20:00	148	4	3	3	73	1	148	7	3	6	73	4
29:36 - 29:48	29:20:00 - 29:30:00	149	5	2	2	74	2	149	8	2	5	74	5
29:48 - 30:00	29:30:00 - 30:00:00	150	6	1	1	75	3	150	9	1	4	75	6

Table 3: Serial numbers of Nadi amsas (NN) and Rasis (RN) of the Longitude intervals in Tula - Mina Rasis

Longitude interval		**7 Tula**		**8 Vrischika**		**9 Dhanus**		**10 Makara**		**11 Kumbha**		**12 Mina**	
Equal	**Unequal**	**NN**	**RN**	**NN**	**RN**	**NN**	**RN**	**NN**	**RN**	**NN**	**RN**	**NN**	**RN**
00:00 - 00:12	00:00:00 - 00:30:00	1	7	150	12	76	10	1	10	150	3	76	1
00:12 - 00:24	00:30:00 - 00:40:00	2	8	149	11	77	11	2	11	149	2	77	2
00:24 - 00:36	00:40:00 - 00:45:00	3	9	148	10	78	12	3	12	148	1	78	3
00:36 - 00:48	00:45:00 - 01:00:00	4	10	147	9	79	1	4	1	147	12	79	4
00:48 - 01:00	01:00:00 - 01:06:40	5	11	146	8	80	2	5	2	146	11	80	5
01:00 - 01:12	01:06:40 - 01:15:00	6	12	145	7	81	3	6	3	145	10	81	6
01:12 - 01:24	01:15:00 - 01:20:00	7	1	144	6	82	4	7	4	144	9	82	7
01:24 - 01:36	01:20:00 - 01:30:00	8	2	143	5	83	5	8	5	143	8	83	8
01:36 - 01:48	01:30:00 - 01:52:30	9	3	142	4	84	6	9	6	142	7	84	9
01:48 - 02:00	01:52:30 - 02:00:00	10	4	141	3	85	7	10	7	141	6	85	10
02:00 - 02:12	02:00:00 - 02:13:20	11	5	140	2	86	8	11	8	140	5	86	11
02:12 - 02:24	02:13:20 - 02:15:00	12	6	139	1	87	9	12	9	139	4	87	12
02:24 - 02:36	02:15:00 - 02:30:00	13	7	138	12	88	10	13	10	138	3	88	1
02:36 - 02:48	02:30:00 - 02:40:00	14	8	137	11	89	11	14	11	137	2	89	2
02:48 - 03:00	02:40:00 - 03:00:00	15	9	136	10	90	12	15	12	136	1	90	3
03:00 - 03:12	03:00:00 - 03:20:00	16	10	135	9	91	1	16	1	135	12	91	4
03:12 - 03:24	03:20:00 - 03:30:00	17	11	134	8	92	2	17	2	134	11	92	5
03:24 - 03:36	03:30:00 - 03:45:00	18	12	133	7	93	3	18	3	133	10	93	6
03:36 - 03:48	03:45:00 - 04:00:00	19	1	132	6	94	4	19	4	132	9	94	7
03:48 - 04:00	04:00:00 - 04:17:09	20	2	131	5	95	5	20	5	131	8	95	8
04:00 - 04:12	04:17:09 - 04:26:40	21	3	130	4	96	6	21	6	130	7	96	9
04:12 - 04:24	04:26:40 - 04:30:00	22	4	129	3	97	7	22	7	129	6	97	10
04:24 - 04:36	04:30:00 - 04:40:00	23	5	128	2	98	8	23	8	128	5	98	11
04:36 - 04:48	04:40:00 - 05:00:00	24	6	127	1	99	9	24	9	127	4	99	12
04:48 - 05:00	05:00:00 - 05:15:00	25	7	126	12	100	10	25	10	126	3	100	1
05:00 - 05:12	05:15:00 - 05:20:00	26	8	125	11	101	11	26	11	125	2	101	2
05:12 - 05:24	05:20:00 - 05:30:00	27	9	124	10	102	12	27	12	124	1	102	3
05:24 - 05:36	05:30:00 - 05:33:20	28	10	123	9	103	1	28	1	123	12	103	4
05:36 -	05:33:20 - 05:37:30	29	11	122	8	104	2	29	2	122	11	104	5

05:48													
05:48 - 06:00	05:37:30 - 06:00:00	30	12	121	7	105	3	30	3	121	10	105	6
06:00 - 06:12	06:00:00 - 06:15:00	31	1	120	6	106	4	31	4	120	9	106	7
06:12 - 06:24	06:15:00 - 06:30:00	32	2	119	5	107	5	32	5	119	8	107	8
06:24 - 06:36	06:30:00 - 06:40:00	33	3	118	4	108	6	33	6	118	7	108	9
06:36 - 06:48	06:40:00 - 06:45:00	34	4	117	3	109	7	34	7	117	6	109	10
06:48 - 07:00	06:45:00 - 07:00:00	35	5	116	2	110	8	35	8	116	5	110	11
07:00 - 07:12	07:00:00 - 07:20:00	36	6	115	1	111	9	36	9	115	4	111	12
07:12 - 07:24	07:20:00 - 07:30:00	37	7	114	12	112	10	37	10	114	3	112	1
07:24 - 07:36	07:30:00 - 07:46:40	38	8	113	11	113	11	38	11	113	2	113	2
07:36 - 07:48	07:46:40 - 08:00:00	39	9	112	10	114	12	39	12	112	1	114	3
07:48 - 08:00	08:00:00 - 08:15:00	40	10	111	9	115	1	40	1	111	12	115	4
08:00 - 08:12	08:15:00 - 08:30:00	41	11	110	8	116	2	41	2	110	11	116	5
08:12 - 08:24	08:30:00 - 08:34:17	42	12	109	7	117	3	42	3	109	10	117	6
08:24 - 08:36	08:34:17 - 08:40:00	43	1	108	6	118	4	43	4	108	9	118	7
08:36 - 08:48	08:40:00 - 08:45:00	44	2	107	5	119	5	44	5	107	8	119	8
08:48 - 09:00	08:45:00 - 08:53:20	45	3	106	4	120	6	45	6	106	7	120	9
09:00 - 09:12	08:53:20 - 09:00:00	46	4	105	3	121	7	46	7	105	6	121	10
09:12 - 09:24	09:00:00 - 09:20:00	47	5	104	2	122	8	47	8	104	5	122	11
09:24 - 09:36	09:20:00 - 09:22:30	48	6	103	1	123	9	48	9	103	4	123	12
09:36 - 09:48	09:22:30 - 09:30:00	49	7	102	12	124	10	49	10	102	3	124	1
09:48 - 10:00	09:30:00 - 09:45:00	50	8	101	11	125	11	50	11	101	2	125	2

Table 3: (continued). Serial numbers of Nadi amsas (NN) and Rasis (RN) of the Longitude intervals in Tula - Mina Rasis

Longitude interval		**7 Tula**		**8 Vrischika**		**9 Dhanus**		**10 Makara**		**11 Kumbha**		**12 Mina**	
Equal	**Unequal**	**NN**	**RN**	**NN**	**RN**	**NN**	**RN**	**NN**	**RN**	**NN**	**RN**	**NN**	**RN**
10:00 - 10:12	09:45:00 - 10:00:00	51	9	100	10	126	12	51	12	100	1	126	3
10:12 - 10:24	10:00:00 - 10:30:00	52	10	99	9	127	1	52	1	99	12	127	4
10:24 - 10:36	10:30:00 - 10:40:00	53	11	98	8	128	2	53	2	98	11	128	5
10:36 - 10:48	10:40:00 - 11:00:00	54	12	97	7	129	3	54	3	97	10	129	6
10:48 - 11:00	11:00:00 - 11:06:40	55	1	96	6	130	4	55	4	96	9	130	7
11:00 - 11:12	11:06:40 - 11:15:00	56	2	95	5	131	5	56	5	95	8	131	8
11:12 - 11:24	11:15:00 - 11:20:00	57	3	94	4	132	6	57	6	94	7	132	9
11:24 - 11:36	11:20:00 - 11:30:00	58	4	93	3	133	7	58	7	93	6	133	10
11:36 - 11:48	11:30:00 - 12:00:00	59	5	92	2	134	8	59	8	92	5	134	11
11:48 - 12:00	12:00:00 - 12:13:20	60	6	91	1	135	9	60	9	91	4	135	12
12:00 - 12:12	12:13:20 - 12:30:00	61	7	90	12	136	10	61	10	90	3	136	1

12:12 - 12:24	12:30:00 - 12:40:00	62	8	89	11	137	11	62	11	89	2	137	2
12:24 - 12:36	12:40:00 - 12:45:00	63	9	88	10	138	12	63	12	88	1	138	3
12:36 - 12:48	12:45:00 - 12:51:26	64	10	87	9	139	1	64	1	87	12	139	4
12:48 - 13:00	12:51:26 - 13:00:00	65	11	86	8	140	2	65	2	86	11	140	5
13:00 - 13:12	13:00:00 - 13:07:30	66	12	85	7	141	3	66	3	85	10	141	6
13:12 - 13:24	13:07:30 - 13:20:00	67	1	84	6	142	4	67	4	84	9	142	7
13:24 - 13:36	13:20:00 - 13:30:00	68	2	83	5	143	5	68	5	83	8	143	8
13:36 - 13:48	13:30:00 - 13:45:00	69	3	82	4	144	6	69	6	82	7	144	9
13:48 - 14:00	13:45:00 - 14:00:00	70	4	81	3	145	7	70	7	81	6	145	10
14:00 - 14:12	14:00:00 - 14:15:00	71	5	80	2	146	8	71	8	80	5	146	11
14:12 - 14:24	14:15:00 - 14:26:40	72	6	79	1	147	9	72	9	79	4	147	12
14:24 - 14:36	14:26:40 - 14:30:00	73	7	78	12	148	10	73	10	78	3	148	1
14:36 - 14:48	14:30:00 - 14:40:00	74	8	77	11	149	11	74	11	77	2	149	2
14:48 - 15:00	14:40:00 - 15:00:00	75	9	76	10	150	12	75	12	76	1	150	3
15:00 - 15:12	15:00:00 - 15:20:00	76	10	75	9	1	7	76	1	75	12	1	10
15:12 - 15:24	15:20:00 - 15:30:00	77	11	74	8	2	8	77	2	74	11	2	11
15:24 - 15:36	15:30:00 - 15:33:20	78	12	73	7	3	9	78	3	73	10	3	12
15:36 - 15:48	15:33:20 - 15:45:00	79	1	72	6	4	10	79	4	72	9	4	1
15:48 - 16:00	15:45:00 - 16:00:00	80	2	71	5	5	11	80	5	71	8	5	2
16:00 - 16:12	16:00:00 - 16:15:00	81	3	70	4	6	12	81	6	70	7	6	3
16:12 - 16:24	16:15:00 - 16:30:00	82	4	69	3	7	1	82	7	69	6	7	4
16:24 - 16:36	16:30:00 - 16:40:00	83	5	68	2	8	2	83	8	68	5	8	5
16:36 - 16:48	16:40:00 - 16:52:30	84	6	67	1	9	3	84	9	67	4	9	6
16:48 - 17:00	16:52:30 - 17:00:00	85	7	66	12	10	4	85	10	66	3	10	7
17:00 - 17:12	17:00:00 - 17:08:34	86	8	65	11	11	5	86	11	65	2	11	8
17:12 - 17:24	17:08:34 - 17:15:00	87	9	64	10	12	6	87	12	64	1	12	9
17:24 - 17:36	17:15:00 - 17:20:00	88	10	63	9	13	7	88	1	63	12	13	10
17:36 - 17:48	17:20:00 - 17:30:00	89	11	62	8	14	8	89	2	62	11	14	11
17:48 - 18:00	17:30:00 - 17:46:40	90	12	61	7	15	9	90	3	61	10	15	12
18:00 - 18:12	17:46:40 - 18:00:00	91	1	60	6	16	10	91	4	60	9	16	1
18:12 - 18:24	18:00:00 - 18:30:00	92	2	59	5	17	11	92	5	59	8	17	2
18:24 - 18:36	18:30:00 - 18:40:00	93	3	58	4	18	12	93	6	58	7	18	3
18:36 - 18:48	18:40:00 - 18:45:00	94	4	57	3	19	1	94	7	57	6	19	4
18:48 - 19:00	18:45:00 - 18:53:20	95	5	56	2	20	2	95	8	56	5	20	5
19:00 - 19:12	18:53:20 - 19:00:00	96	6	55	1	21	3	96	9	55	4	21	6
19:12 -	19:00:00 - 19:20:00	97	7	54	12	22	4	97	10	54	3	22	7

19:24													
19:24 - 19:36	19:20:00 - 19:30:00	98	8	53	11	23	5	98	11	53	2	23	8
19:36 - 19:48	19:30:00 - 20:00:00	99	9	52	10	24	6	99	12	52	1	24	9
19:48 - 20:00	20:00:00 - 20:15:00	100	10	51	9	25	7	100	1	51	12	25	10

Table 3: (continued). Serial numbers of Nadi amsas (NN) and Rasis (RN) of the Longitude intervals in Tula - Mina Rasis

Longitude interval		**7 Tula**		**8 Vrischika**		**9 Dhanus**		**10 Makara**		**11 Kumbha**		**12 Mina**	
Equal	**Unequal**	**NN**	**RN**	**NN**	**RN**	**NN**	**RN**	**NN**	**RN**	**NN**	**RN**	**NN**	**RN**
20:00 - 20:12	20:15:00 - 20:30:00	101	11	50	8	26	8	101	2	50	11	26	11
20:12 - 20:24	20:30:00 - 20:37:30	102	12	49	7	27	9	102	3	49	10	27	12
20:24 - 20:36	20:37:30 - 20:40:00	103	1	48	6	28	10	103	4	48	9	28	1
20:36 - 20:48	20:40:00 - 21:00:00	104	2	47	5	29	11	104	5	47	8	29	2
20:48 - 21:00	21:00:00 - 21:06:40	105	3	46	4	30	12	105	6	46	7	30	3
21:00 - 21:12	21:06:40 - 21:15:00	106	4	45	3	31	1	106	7	45	6	31	4
21:12 - 21:24	21:15:00 - 21:20:00	107	5	44	2	32	2	107	8	44	5	32	5
21:24 - 21:36	21:20:00 - 21:25:43	108	6	43	1	33	3	108	9	43	4	33	6
21:36 - 21:48	21:25:43 - 21:30:00	109	7	42	12	34	4	109	10	42	3	34	7
21:48 - 22:00	21:30:00 - 21:45:00	110	8	41	11	35	5	110	11	41	2	35	8
22:00 - 22:12	21:45:00 - 22:00:00	111	9	40	10	36	6	111	12	40	1	36	9
22:12 - 22:24	22:00:00 - 22:13:20	112	10	39	9	37	7	112	1	39	12	37	10
22:24 - 22:36	22:13:20 - 22:30:00	113	11	38	8	38	8	113	2	38	11	38	11
22:36 - 22:48	22:30:00 - 22:40:00	114	12	37	7	39	9	114	3	37	10	39	12
22:48 - 23:00	22:40:00 - 23:00:00	115	1	36	6	40	10	115	4	36	9	40	1
23:00 - 23:12	23:00:00 - 23:15:00	116	2	35	5	41	11	116	5	35	8	41	2
23:12 - 23:24	23:15:00 - 23:20:00	117	3	34	4	42	12	117	6	34	7	42	3
23:24 - 23:36	23:20:00 - 23:30:00	118	4	33	3	43	1	118	7	33	6	43	4
23:36 - 23:48	23:30:00 - 23:45:00	119	5	32	2	44	2	119	8	32	5	44	5
23:48	23:45:00 -	120	6	31	1	45	3	120	9	31	4	45	6

- 24:00	24:00:00												
24:00 - 24:12	24:00:00 - 24:22:30	121	7	30	12	46	4	121	10	30	3	46	7
24:12 - 24:24	24:22:30 - 24:26:40	122	8	29	11	47	5	122	11	29	2	47	8
24:24 - 24:36	24:26:40 - 24:30:00	123	9	28	10	48	6	123	12	28	1	48	9
24:36 - 24:48	24:30:00 - 24:40:00	124	10	27	9	49	7	124	1	27	12	49	10
24:48 - 25:00	24:40:00 - 24:45:00	125	11	26	8	50	8	125	2	26	11	50	11
25:00 - 25:12	24:45:00 - 25:00:00	126	12	25	7	51	9	126	3	25	10	51	12
25:12 - 25:24	25:00:00 - 25:20:00	127	1	24	6	52	10	127	4	24	9	52	1
25:24 - 25:36	25:20:00 - 25:30:00	128	2	23	5	53	11	128	5	23	8	53	2
25:36 - 25:48	25:30:00 - 25:33:20	129	3	22	4	54	12	129	6	22	7	54	3
25:48 - 26:00	25:33:20 - 25:42:51	130	4	21	3	55	1	130	7	21	6	55	4
26:00 - 26:12	25:42:51 - 26:00:00	131	5	20	2	56	2	131	8	20	5	56	5
26:12 - 26:24	26:00:00 - 26:15:00	132	6	19	1	57	3	132	9	19	4	57	6
26:24 - 26:36	26:15:00 - 26:30:00	133	7	18	12	58	4	133	10	18	3	58	7
26:36 - 26:48	26:30:00 - 26:40:00	134	8	17	11	59	5	134	11	17	2	59	8
26:48 - 27:00	26:40:00 - 27:00:00	135	9	16	10	60	6	135	12	16	1	60	9
27:00 - 27:12	27:00:00 - 27:20:00	136	10	15	9	61	7	136	1	15	12	61	10
27:12 - 27:24	27:20:00 - 27:30:00	137	11	14	8	62	8	137	2	14	11	62	11
27:24 - 27:36	27:30:00 - 27:45:00	138	12	13	7	63	9	138	3	13	10	63	12
27:36 - 27:48	27:45:00 - 27:46:40	139	1	12	6	64	10	139	4	12	9	64	1
27:48 - 28:00	27:46:40 - 28:00:00	140	2	11	5	65	11	140	5	11	8	65	2
28:00 - 28:12	28:00:00 - 28:07:30	141	3	10	4	66	12	141	6	10	7	66	3
28:12 - 28:24	28:07:30 - 28:30:00	142	4	9	3	67	1	142	7	9	6	67	4
28:24 - 28:36	28:30:00 - 28:40:00	143	5	8	2	68	2	143	8	8	5	68	5

28:36 - 28:48	28:40:00 - 28:45:00	144	6	7	1	69	3	144	9	7	4	69	6
28:48 - 29:00	28:45:00 - 28:53:20	145	7	6	12	70	4	145	10	6	3	70	7
29:00 - 29:12	28:53:20 - 29:00:00	146	8	5	11	71	5	146	11	5	2	71	8
29:12 - 29:24	29:00:00 - 29:15:00	147	9	4	10	72	6	147	12	4	1	72	9
29:24 - 29:36	29:15:00 - 29:20:00	148	10	3	9	73	7	148	1	3	12	73	10
29:36 - 29:48	29:20:00 - 29:30:00	149	11	2	8	74	8	149	2	2	11	74	11
29:48 - 30:00	29:30:00 - 30:00:00	150	12	1	7	75	9	150	3	1	10	75	12

Results and Discussion

As far as their sizes are concerned there are only twenty-three distinct, unequal Longitude intervals in the unequal divisional scheme of Nadi amsa. The 150 non-overlapping Longitude intervals are distributed symmetrically about the middle of a Rasi. The smallest interval is 1 arcmin 40 arcsec and the largest is 30 arcmin. In Tables 2 and 3, the Longitude intervals, both in the equal and unequal divisional schemes, the corresponding serial numbers of Nadi amsas (NN) and their Rasi numbers (RN) for the Rasis, Mesha - Kanya and Tula - Mina, respectively, are given. For any Longitude of interest, the Nadi amsa and its Rasi can be readily found out using the table. Three examples are given below as illustrations on the usage of the tables.

(1) Longitude 1 degree 5 arcmin (1:05) in the Dwiswabhava rasi, Mithuna: Table 2 shows that the Longitude 1:05 falls in the interval 01:00 - 01:12 of the equal divisional scheme and 01:00:00 - 01:06:40 of the unequal divisional scheme, and that the serial numbers of the Nadi amsas are 81 and 80. Table 1 gives the names of the Nadi amsas as Sobhana and Sobhaa. The Rasi numbers in the two schemes are 9 and 8, which correspond to the Rasis, Dhanus and Vrischika.

(2) Longitude 14 degree 49 arcmin (14:49) in the Chara rasi, Makara: From Table 3, it is seen that 14:49 falls in the same Nadi amsa in both the divisional schemes; the Longitude intervals in the two schemes are 14:48 - 15:00, and 14:40:00 - 15:00:00. The serial number of the Nadi amsa of the Longitude intervals is 75 and the Rasi number is 12. From Table 1, it is seen that the serial number 75 of the Nadi amsa corresponds to the name Trailokyamohanakari. The Rasi number 12 corresponds to Mina rasi.

(3) Longitude 29 degree 16 arcmin (29:16) in the Sthira rasi, Simha: The Longitude 29:16 falls in two different Nadi amsas according to the two divisional schemes. In the equal interval scheme, it falls in the 29:12 - 29:24 interval with the serial number of Nadi amsa 4 and Rasi number 7, while, in the unequal interval scheme it falls in the 29:15:00 - 29:20:00 interval with the serial number of Nadi amsa 3 and Rasi number 6. Table 1 indicates that Nadi amsas corresponding to the above serial numbers 4 and 3 are Kalakoota and Braahi (Brahmi). The Rasi numbers 7 and 6 correspond to Tula and Kanya rasis.

Even though the Longitude intervals are the same, each of 30°, the time durations of Lagna rasis are not the same at the same place. The value of 2 hour usually used for a Lagna rasi duration is only the average. Places at higher Geographical Latitudes have larger ranges in the variation in the duration of Lagna rasis than those at lower Latitudes. The durations of Lagna rasis in Bangalore (Latitude = 12° 58') and in New Delhi (Latitude = 28° 37') are given in Table 4, which shows that the duration of Lagna rasis in New Delhi varies from 1 hour 25 minutes to 2 hour 20 minutes, while in Bangalore it varies from 1 hour 40 minutes to 2 hour 12 minutes. The table is prepared for the epoch 00:00 hours, 1 September 2025. Because of the slow shift in the Rasi boundaries caused by the precession of the Earth, the durations of the Lagna rasis would also change slowly over the years. It is seen above that the smallest Longitude interval of a Nadi amsa is 1 arcmin 40 arcsec in the unequal divisional scheme. The time of birth should be recorded accurate to the seconds, against the current normal practice of recording the time accurate to a minute, for an interpretation of a horoscope using Nadi amsas, especially, the unequal divisional scheme.

Table 4: Durations (Hour:Minutes) of Lagna rasis at Bangalore and New Delhi

Rasi	Bangalore	New Delhi	Rasi	Bangalore	New Delhi
Mesha	1:48	1:35	Tula	2:07	2:19
Vrishabha	2:02	1:55	Vrischika	2:12	2:18
Mithuna	2:12	2:15	Dhanus	2:07	2:04
Karkataka	2:09	2:20	Makara	1:53	1:42
Simha	2:03	2:17	Kumbha	1:42	1:27
Kanya	2:01	2:17	Mina	1:40	1:25

Conclusions

A ready-reckoner for determining the name and Rasi of the Nadi amsa of a given Longitude is presented. An interpretation of a horoscope based on Nadi amsa requires that the time of birth should be recorded with an accuracy of the order of seconds. The Rasis and Zodiac signs do not represent the same Longitude intervals, and hence, the use of the names of the Zodiac signs, Aries, Taurus, etc. for Rasis instead of Mesha, Vrishabha, etc., is not quite appropriate because such a use, at times, might lead to confusion.

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