

# Study of Zodiac Sign & Personality Traits

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### 1) Abstract:

Every individual has their own zodiac sign assign to them according to the birthdate and they consist of specific unique personality within themselves but the question arises that their zodiac sign is right as per their personality? so to judge the overall personality and find the exact zodiac sign according to it we conducted a study called "Study of Zodiac Sign & Personality Traits". Our study consist of a group of 37 people by collecting primary data

through a questionnaire sent using Google Forms. Out of the people surveyed, there are 20 men and 17 women. Average men's age are between 17 years to 22 years and respectively same for women. The analysis of the data has been done by using graphical representation on excel by plotting the bar graph for every individual. We then observed maximum rating for each personality given by an individual and according to that we assign zodiac based on their responses. Sometimes the zodiac sign which is obtained by participants birthdate will not match because the personality is not relevant to that zodiac sign. so hence we conclude different zodiac as per personality data. This is done for every participants individually then overall accuracy is plotted using pie chart which represents how many people after conducting survey either matched or not according to their zodiac as per birthdate.

**Keywords:** Zodiac sign, Personality traits, Birthdate, Gender

## 2) Introduction:

Ever wondered if your zodiac sign has anything to do with your personality? This research paper is all about digging into that idea. We're on a mission to figure out if the way the stars aligned when you were born might actually influence the kind of person you are. Forget the complicated stuff – we want to explore whether there's a connection between what your zodiac sign says and the way you behave. In a world where everyone is trying to figure themselves out, we're diving into the fun mix of ancient starry beliefs and modern psychology to see if there's more to your personality than meets the eye.

This is called astrology, a belief system according to which positioning of the sky bodies has an effect on earth occurrences, including on people's lives and personalities. These include practices related to astrology prediction, forecasting, and astronomy observation for divination. Some days, a belt like region in the sky becomes divided into twelve equal pieces marked after star clusters. Zodiac signs stand for the perceived journey of the sun through the sky in a year and represent the divisions. Every individual has some specific personality trait based on his/her birth-sign. There is a lot of research that goes into understanding zodiac signs and how they relate to personal attributes like character, which is an offshoot of both astrology and psychology. The researchers have investigated relationships between zodiac signs and different personality characteristics in order to establish if these links are empirical. we will go deep into previous works in zodiac signs and personality traits.

Some features of one's personality are thought to be determined by birthdate. Therefore, it explains why astrology has been so appreciated. The aim of this manuscript is to find out whether one is capable of making predictions based on his or her birthdate zodiac sign and the character traits that are associated with that sign.

Consequently, a questionnaire was developed and administered to 37 graduate students made up of 20 males and 17 females. They filled up the questionnaire, which they scored on how much they believed in astrology, in addition to the two personality dimensions they believed should match their respective zodiac traits. Every facet of each sign has been well thought of until each of the 12 Zodiac signs is covered. Data analysis was made to establish whether any relation exists between zodiac sign obtained from subject born date and zodiac sign determined from subject indicated personality traits. For the sake of ensuring that traits of zodiac signs are taken for granted, we compared two zodiac signs. This research will

ascertain the importance of astrology as a tool for understanding individuals. Matching the self-described character traits with the Zodiac sign would explain astrology as a predictor. This research paper aims to contribute to the discussion about the connection between personality traits and astrology. This essay will examine that astrology may be a true reflection of a man in his individuality, and it will attempt to show the relevance of astrology in life today.

## **Related work**

Zodiac sign research is quite intensive in terms of the personalities involved. These studies however have shown different outcomes. A few of them were just poor because they produced small correlations for most zodiac sign – personality trait combinations, or no correlations at all for others. Before the 1970s, probably the most extensive investigations into the subject were those undertaken by Eysenck and his group. This study had more than two thousand people, and Eysenck et al failed to identify substantial correlations between the signs of zodiac and personality traits. Another recent meta-analysis consisting of 17 studies gave a correlation coefficient of just 0.17 for the relation between zodiac signs and the personality traits.

This results in a very low correlation which fails statistical tests. A meta-analysis of zodiac traits 225 studies (1998). It therefore implies that the position of the sun at birth does not determine personality. Twentyeight in 2012 meta-analysis studied associations of zodiac sign with the five big personality traits: the five personality variables include the openness, conscientiousness, extraversion, agreeableness, and the neuroticism. However, the analysis demonstrated that zodiacs had no correlation with Big 5 traits.

### 3) Material & Methods:

#### Participants

The data sample consist of 37 total observations collected from the graduate students. From the overall sample there were 20 men and 17 women. Average men's age are between 17 years to 22 years and respectively same for women. Further these participants are divided into different group according to their date of birth with respective zodiac sign.

#### Data collection

Data collection is done by preparing the google form and sharing it online via WhatsApp and other social media platform, in order to make there confidential we have collected the data accordingly by giving them multiple options instead of asking direct personal questions.

Questionnaire consists of 3 basic personal question about their gender, date of birth (between a specific range) and their qualification. There were 25 questions about the required data for our survey asking about believe in astrology and their personality traits. There were 12 zodiac sign and each zodiac sign has multiple personality traits but we have considered only 2 personality traits from each of the zodiac sign. In order to get the numerical data we have given then the option to rate the personality trait from 0 (strongly disagree) to 10 (strongly agree). The participants were have to describe themselves by giving them the rating between 0 to 10 if they carry that specific personality trait within them and how much. Their responses are collected in the excel data set as a score between 0 to 10 out of 10

## Raw data from questionnaire:

	Gender	Qualification	Do you believe in astrology?	Select your Date of Birth	Competitive	Ambitious	Loyal	Practical	Intelligent	Impatient	Sensitive	Mood	Romantic	Disagreeing	Methodical (If Fault-finding)	Cooperative	Indecisive (If Emotional)	Jealous	Honest	Friendly	Ambitious	Wary	Independent	Broad minded	Dreamy	Compassionate (If Organized)				
11-18	Male	Master's Degree	yes	Nov 23rd to Dec 21st	5	4	9	7	6	7	7	8	5	5	5	4	7	5	6	4	7	9	5	4	8	8	7	8	5	
17-22	Male	Master's Degree	yes	Apr 21st to May 21st	9	7	10	7	8	4	5	6	8	3	10	8	4	4	5	9	7	7	7	8	10	5	9	10		
17-22	Male	Master's Degree	yes	Dec 22nd to Jan 20th	8	2	10	7	6	6	9	8	2	5	8	2	7	2	5	2	9	10	10	2	7	8	6	9	10	
17-22	Male	Bachelor's Degree	No	Jun 22nd to Jul 22nd	9	7	5	6	8	3	4	4	5	5	8	9	8	3	6	2	6	10	8	5	10	9	4	6	7	
17-22	Female	Master's Degree	No	Nov 23rd to Dec 21st	7	6	8	3	7	9	7	9	7	6	8	7	8	3	10	7	8	9	8	9	7	7	10	8	8	
17-22	Male	Bachelor's Degree	yes	May 22nd to Jun 21st	10	4	10	10	8	4	10	10	10	3	10	1	10	5	10	10	10	10	10	10	7	10	10	10	10	
17-22	Female	Bachelor's Degree	Unsure	Dec 22nd to Jan 20th	8	5	9	7	6	9	8	7	8	8	8	8	7	8	7	8	8	9	6	7	9	8	6	7	8	
17-22	Female	Bachelor's Degree	yes	Nov 23rd to Dec 21st	8	5	10	10	7	8	10	4	7	1	9	5	10	4	10	10	10	10	4	10	10	10	10	10	10	
17-22	Female	Bachelor's Degree	yes	Mar 21st to Apr 20th	3	7	10	8	5	7	10	7	4	4	3	3	5	7	10	10	4	8	9	3	6	2	5	5	5	
17-22	Female	Bachelor's Degree	Unsure	Jul 24th to Aug 23rd	8	2	10	7	7	4	8	4	9	3	1	10	8	1	9	6	9	3	7	8	7	7	8	8	5	
17-22	Male	Master's Degree	Unsure	Oct 24th to Nov 23rd	8	3	7	6	6	6	5	3	7	5	5	2	8	2	7	2	4	10	10	4	9	10	3	8	9	
17-22	Female	Bachelor's Degree	Unsure	Oct 24th to Nov 23rd	8	1	7	10	7	1	9	8	7	8	6	10	10	9	3	7	8	9	10	7	8	10	9	10	10	
17-22	Female	Bachelor's Degree	Unsure	Oct 24th to Nov 23rd	7	5	10	7	7	8	7	5	7	6	5	1	9	7	6	1	9	8	7	5	6	7	6	8	5	
17-22	Male	Bachelor's Degree	yes	Feb 20th to Mar 20th	7	1	10	9	8	1	10	2	10	4	8	1	8	8	10	1	9	6	10	7	1	10	10	10		
17-22	Female	Bachelor's Degree	Unsure	Nov 23rd to Dec 21st	5	3	10	7	7	5	3	6	7	5	5	5	8	7	10	8	9	8	7	8	7	7	7	8	7	
17-22	Female	Master's Degree	yes	Feb 20th to Mar 20th	8	9	10	9	8	5	10	10	6	8	10	7	8	4	10	6	7	10	9	10	9	10	10	9	9	
17-22	Male	Bachelor's Degree	Unsure	Sep 24th to Oct 23rd	10	6	10	5	6	7	7	7	7	7	7	5	8	3	8	1	9	10	9	3	8	6	8	9	6	
17-22	Female	Bachelor's Degree	Unsure	Feb 20th to Mar 20th	7	4	9	9	8	6	10	8	8	7	8	7	8	8	9	5	8	8	9	8	9	9	10	10	9	
17-22	Female	Master's Degree	yes	Feb 20th to Mar 20th	6	2	10	5	8	4	8	8	10	6	7	5	9	6	9	4	9	9	9	6	5	6	9	10	8	
17-22	Male	Bachelor's Degree	yes	Feb 20th to Mar 20th	6	1	10	9	8	1	10																			
17-22	Female	Master's Degree	yes	May 22nd to Jun 21st	5	7	10	4	6	8	10	6	9	4	4	5	10	4	10	3	10	10	10	7	8	8	10	10	7	
17-22	Male	Master's Degree	Unsure	Dec 22nd to Jan 20th	8	5	8	7	8	8	7	8	4	6	6	6	8	5	9	1	9	9	10	2	5	6	8	7	7	
17-22	Male	Bachelor's Degree	yes	Nov 23rd to Dec 21st	10	3	10	7	6	6	10	10	5	4	4	7	8	8	10	3	8	9	8	8	5	6	9	10	6	
17-22	Male	Bachelor's Degree	No	Jul 24th to Aug 23rd	9	7	10	8	8	5	2	2	5	5	6	8	6	6	1	2	3	8	2	8	5	7	8	5	5	8
17-22	Male	Bachelor's Degree	yes	Dec 22nd to Jan 20th	10	5	8	8	7	3	8	3	10	1	7	6	10	4	10	1	7	10	7	10	7	7	10	10	10	
17-22	Female	Master's Degree	Unsure	Sep 24th to Oct 23rd	5	2	10	8	4	8	10	8	4	3	8	5	8	9	10	8	10	9	7	8	4	9	10	9	9	
23-29	Male	Bachelor's Degree	yes	Jul 24th to Aug 23rd	7	7	7	6	7	9	6	8	10	10	4	3	4	2	6	2	7	10	7	7	7	7	7	8	8	3
Above 35	Female	Master's Degree	yes	Sep 24th to Oct 23rd	8	2	9	8	6	7	8	8	9	4	9	1	9	8	8	5	9	8	9	6	10	10	10	9	10	
17-22	Male	Bachelor's Degree	No	Jun 22nd to Jul 23rd	10	8	10	10	10	9	5	7	10	10	10	8	8	7	6	4	7	10	10	10	10	10	10	10	10	10
17-22	Female	Bachelor's Degree	yes	Feb 20th to Mar 20th	9	2	9	6	9	6	9	6	9	2	7	6	8	6	8	2	10	7	10	7	8	10	8	9	8	
17-22	Male	Bachelor's Degree	No	May 22nd to Jun 21st	7	4	8	7	4	5	7	7	7	7	8	8	8	4	7	3	8	9	9	9	4	3	9	8	7	8
17-22	Male	Bachelor's Degree	No	Jan 21st to Feb 19th	1	1	10	1	10	10	1	10	10	10	10	10	1	10	1	10	1	1	1	10	1	1	1	1	1	1
17-22	Male	Bachelor's Degree	No	Oct 24th to Nov 23rd	7	7	9	10	8	8	5	10	10	8	7	9	10	2	5	6	8	10	10	4	10	9	8	7	8	10
17-22	Female	Bachelor's Degree	yes	May 22nd to Jun 21st	7	9	10	9	7	6	10	10	10	7	10	9	10	9	10	10	10	10	10	9	10	10	8	7	10	10
17-22	Female	Bachelor's Degree	Unsure	Oct 24th to Nov 23rd	6	4	7	6	7	6	6	7	8	6	7	6	6	7	6	7	6	8	7	7	7	7	8	7	10	10
17-22	Male	Master's Degree	No	Apr 21st to May 21st	8	6	7	6	7	6	6	8	10	7	7	6	6	6	8	7	6	6	8	7	7	7	7	6	7	8
Above 35	Male	Bachelor's Degree	yes	Oct 24th to Nov 23rd	5	1	10	5	5	8	10	1	10	1	5	1	10	5	10	3	10	10	5	7	10	10	5	10	5	10

## 4) Procedure:

In astrology, a sign of the zodiac refers to one of 12 specific constellations of the zodiac that the sun passes through. A person's particular sign of the zodiac is the one that the sun was in when they were born. According to the date of birth range given by the participants their respective zodiac sign is being assign to them. The zodiac sign according to their date of birth is being obtained.

## Description of Sun Signs considered for the research

Zodiac Sign	Date of birth	Personality trait
Aries	Mar 21st to Apr 20th	Competitive, Arrogant
Taurus	Apr 21st to May 21st	Loyal, Practical
Gemini	May 22nd to Jun 21st	Intelligent, Impatient
Cancer	Jun 22nd to Jul 23rd	Sensitive, Moody
Leo	Jul 24th to Aug 23rd	Romantic, Domineering
Virgo	Aug 24th to Sept 23rd	Methodical, Fault – finding
Libra	Sept 24th to Oct 23rd	Co-operative, Indecisive
Scorpio	Oct 24th to Nov22nd	Emotional, Jealous
Sagittarius	Nov 23rd to Dec 21st	Honest, Friendly
Capricorn	Dec 22nd to Jan 20th	Ambitious, worry
Aquarius	Jan 21st to Feb19th	Independent, Broad minded
Pisces	Feb 20th to Mar 20th	Dreamy, Compassionate

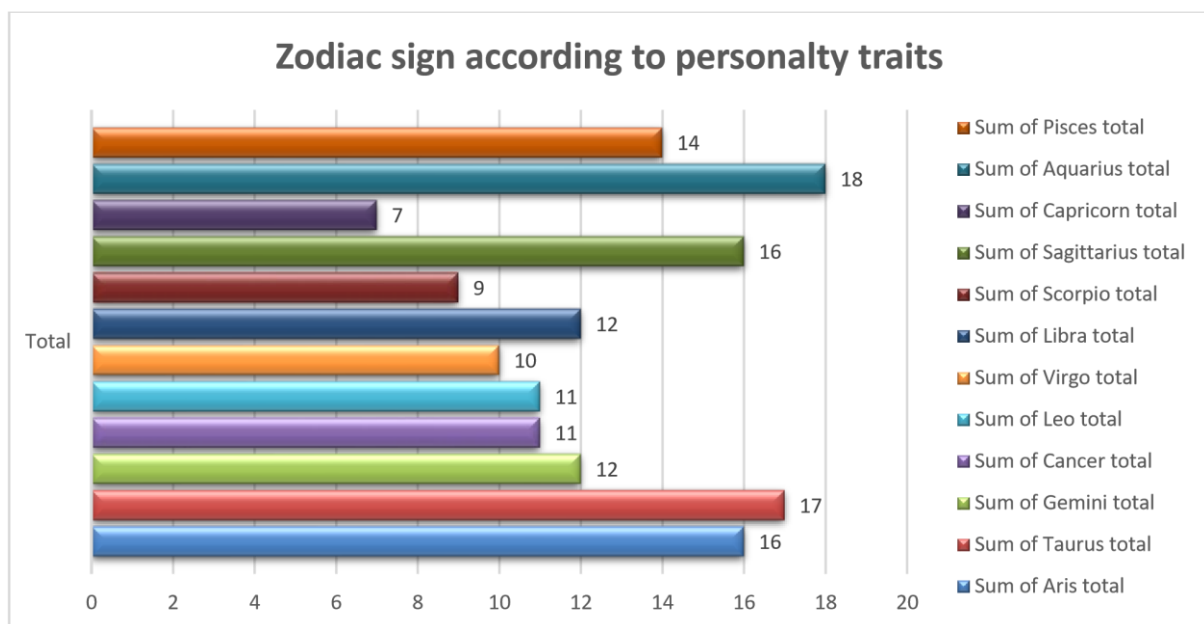
Total rating were calculated for each zodiac sign by adding the two personality traits rating giving them the rating from 20 for each zodiac sign. Considered personality traits were (Competitive, Arrogant) from Aries, (Loyal, Practical) from Taurus, (Intelligent, Impatient) from Gemini, (Sensitive, Moody) from Cancer, (Romantic, Domineering) from Leo, (Methodical, Fault-Finding) from Virgo, (Co-operative, Indecisive) from Libra, (Emotional, Jealous) from Scorpio, (Honest, Friendly) from Sagittarius, (Ambitious, Worry) from Capricorn, (Independent, Broad minded) from Aquarius and lastly (Dreamy, Compassionate) from Pisces.

Then in order to check whether the personality described by the zodiac sign of a person is being accurate to their actual personality we plotted the graph in the excel data set. The bar graph is been plotted by taking the x axis as the total of two personality of each zodiac sign and their values on the y axis. The personality described by the participant will give us a different zodiac sign that the participant

should have according to the personality they should have. Then if both the zodiac signs such as zodiac sign according to date of birth and the zodiac sign according to their self-described personality is same then we can say that it is matched i.e. the zodiac sign by date of birth is predicting the actual personality of a person is true or else if both the zodiac sign is different then we can say that the zodiac sign by date of birth is not predicting the actual personality of a person. The data is recorded as matched (Yes or No) in the excel data set. This is done for each of the participants individually by plotting the personality traits total.

Given below is the example of 1 participant:

It shows according to person's personality its zodiac sign will be Aquarius





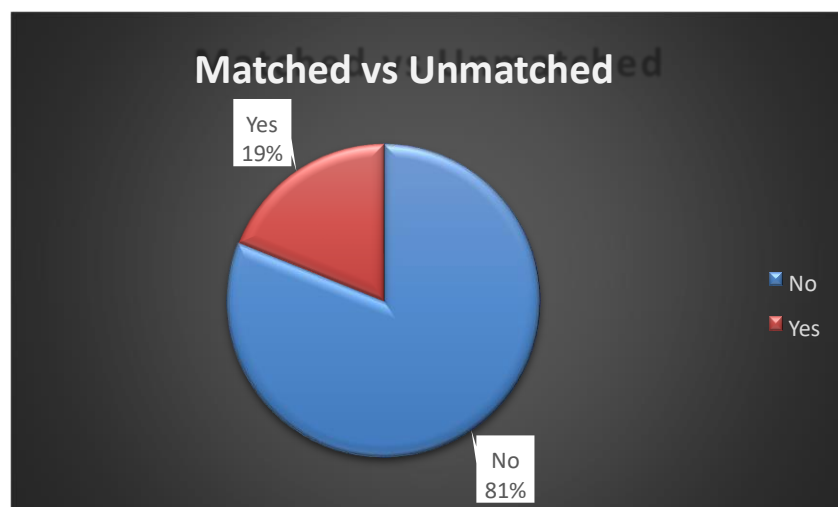
By using this graph the zodiac sign of each of the participants according to their personality trait is being obtained. Both the zodiac sign i.e. the zodiac sign according to date of birth and according to personality trait is being compared and if matched then (YES) and if not matched then (No) is being marked.

## 5) Conclusion:

Then overall accuracy is being calculated by plotting the pie chart of matched vs unmatched

Matched	Total
No	30
Yes	7
Grand Total	37

From the whole 37 data there were only 7 matched and 30 were unmatched



i.e. accuracy of the zodiac sign for predicting the personality of a particular person correctly is 19 % percent

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