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Mystery of Black Hole Resolved with the Help of Number Four

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Abstract: Important characteristic of the number four is that it consumes all the words present in English. After reaching any word near to word 'four', we continue to get word "four". It indicates that word 'four' always try to engulf all English words inside it. 'ENGLISH' is a word which is made up of 7 letters. Now we write these letters in word i.e. 'SEVEN'. This word is also an English word; in this word 5 letters are present. Again we write these letters in word i.e. 'FIVE'; this is also an English word and in this word 4 letters are present. Again we write these letters in word i.e. 'FIVE'; this is also an English word and in this word 4 letters are present. Again we write these letters in word i.e. 'FIVE'; this is also an English word. If we continue to follow the same pattern, we get the same result. Mathematics is a necessary part of our life. In Mathematics also, four fundamental operators are present (+, -, × and \div). For solving any mathematical problem these operations are used. All mathematical operations go inside when final result is obtained.

Keywords: Black hole, four mathematical fundamental signs, the word four in English, black hole number

1. Introduction

A black hole is a region of space-time; from there nothing can escape due to strong gravity. [1]

According to the theory of general relativity, a sufficiently compact mass can deform space time to form a black hole. [2, 3]

The boundary of the region from which there is no escape is possible is called the event horizon and it has no locally detectable features [4]. In many ways, a black hole acts like an ideal black body [5, 6].

Moreover, quantum field theory in curved space-time predicts that event horizons emit Hawking radiation, with the same spectrum as a black body.

In the 18th century; Identification of objects, whose gravitational fields are too strong for light to escape, were considered first time [7]. It was first published by David Finkelstein that black hole is a region of space from which nothing can escape.

Black holes were long considered a mathematical curiosity; it was not until that in 1960s when theoretical work showed that they were a generic prediction of general relativity. Black holes of stellar mass are expected to form when very massive stars collapse at the end of their life cycle. After a black hole has formed, it can continue to grow by absorbing mass from its surroundings. Super massive of millions of solar masses may form by absorbing other stars and merging with other black holes.

The presence of a black hole can be inferred through its interaction with other matter and with electromagnetic radiation such as visible light. Matter that falls onto a black hole can form an external accretion disk heated by friction, forming quasars, some of the brightest objects in the universe. Astronomers have identified numerous stellar black hole candidates in binary systems, and established that the radio source known as Sagittarius A*, at the core of the Milky Way galaxy, contains a super massive black hole.

The first observation of a black hole merger was represented by Abbott et al [8]. On 10 April 2019, the first direct image of a black hole and its vicinity was published, following observations made by the Event Horizon Telescope in 2017 of the super massive black hole in Messier 87's galactic centre [9, 10, 11].

2. Result and Discussion

As nothing can escape from black hole, we can assume that black hole is a substance which possesses 100% absorbing property.

English is a universal language. There are 26 alphabets which form all the words. 4 is written in English as "Four". Important characteristic of the number four is that it engulfs all the words. When any word reaches near to the word 'four', it engulfs that word. Word 'four' always try to attract all English words inside it.

In 'ENGLISH' total 7 letters are present. Now we write these letters in word i.e. 'SEVEN'. This word is also an English word; in this word total 5 letters are present. Again we write these letters in word i.e. 'FIVE'; this is also an English word and in this word the total number of letters is 4. Again we write these letters in word i.e. 'FOUR'; now again we get an English word. After reaching the word FOUR; if we continue to write follow the same pattern, we are getting the same result. Some examples we explain in table (A).

We can take any word in English and we get the same result four. The word four is behaving just like black hole. Both are showing same properties, i.e. absorbing/ attracting properties. Nothing can escape from four just like the black hole. In our whole universe nothing is present, which is going inside black hole and affect the (state/character/properties etc.) black hole. Same thing happened in the case of English and Mathematics. In English no word exist which can affect the (state / character / properties etc.) word four, In figure (1) and (2).

3. Conclusion

On basis of above explanation, we can conclude that the word **FOUR** is the 'black hole word' in English and four fundamentals signs $(+, -, \times \text{ and } \div)$ in Mathematics are ' the black hole signs' in Maths.

4. Figures and Tables

Table (A):	Behavior of	f Word Four
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S. No.	Words	No. of Letters
1	ENGLISH	7
	SEVEN	5
	FIVE	4
	FOUR	4

2	IN	2
	TWO	3
	THREE	5
	FIVE	4
	FOUR	4
3	A	1
	ONE	3
	THREE	5
	FIVE	4
	FOUR	4
4	SOMDATT	7
	SEVEN	5
	FIVE	4
	FOUR	4
5	BHABHA	6
	SIX	3
	THREE	5
	FIVE	4
	FOUR	4



Figure 1: It shows, how the word 'four' behaves like the black hole



Figure 2: Behavior of black hole

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632