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Subtracting Integers: A Comprehensive Guide

Understanding Integers

Integers are whole numbers that can be positive, negative, or zero. They represent quantities that can be more or less than zero. For example, temperatures can be positive or negative, and distances can be positive (forward) or negative (backward).

Subtracting Integers: Rule and Steps

To subtract integers, follow these three steps:

1. **Keep the first integer as it is.**
2. **Change the subtraction sign to addition.**
3. **Change the sign of the second integer to its opposite.**

Rule: (a) - (b) = a + (-b)

Subtracting Integers in Practice

Example 1 (Subtracting Three-Digit Integers): Subtract 567 from 892.

892 - 567 = 892 + (-567) = **325**

Example 2 (Subtracting Large Numbers): Subtract 12,345 from 67,890.

67,890 - 12,345 = 67,890 + (-12,345) = **55,545**

Special Cases

- **Subtracting Zero:** Subtracting zero from any integer does not change its value.
- **Subtracting a Positive Integer:** Subtracting a positive integer is equivalent to adding its negative.
- **Subtracting a Negative Integer:** Subtracting a negative integer is equivalent to adding its positive.
- **Subtracting Integers with Different Signs:** The result will always be positive if the first integer is positive and the second integer is negative. The result will always be negative if the first integer is negative and the second integer is positive.

Other Considerations

- **Is 0 an Integer?** Yes, 0 is an integer. It represents neither a positive nor a negative quantity.
- **Is 0 a Positive Integer?** No, 0 is not a positive integer.
- **Integers from 1 to 100:** The set of integers from 1 to 100 can be represented as {1, 2, 3, ..., 99, 100}.
- **Integer Notation:** Integers are often denoted by the symbol "Z".
- **Rule for Multiplying Integers:** The product of two integers is positive if both integers are positive or if both integers are negative. The product of two integers is negative if one integer is positive and the other is negative.

How to write Guru Nanak Dev ji in Punjabi? Guru Nanak Dev Ji (Gurmukhi: ???? ????), the founder and first Guru of Sikhism, was born in the year 1469, in the village Talwandi which is located in the Punjab region of the Indian subcontinent.

What is the famous writing of Guru Nanak Dev ji? Guru Nanak's most important work is the Mool Mantar. The Mool Mantar was written after Guru Nanak's experience visiting God for three days and receiving enlightenment. The Mool Mantar can be found at the beginning of the holy Sikh scriptures, called the Guru Granth Sahib.

Who is Guru Nanak biography? Guru Nanak (born April 15, 1469, Rai Bhoi di Talvandi [now Nankana Sahib, Pakistan], near Lahore, India—died 1539, Kartarpur, Punjab) was an Indian spiritual teacher who was the first Guru of Sikhism, a monotheistic religion that combines Hindu and Muslim influences.

What is Guru Nanak to Sikhs? Guru Nanak is considered the first Sikh Guru. Sikhism is still based on his teachings and those of the nine Sikh Gurus who followed him.

Did Guru Nanak speak Punjabi? Guru Nanak Dev Ji's Sayings are not in Punjabi per se. The Languages used in Guru Granth Sahib are collectively called 'Sant Bhasha' or 'Sadhu Bhasha'.

Was Guru Nanak born Hindu? Guru Nanak's Life Embodied the Values He Taught. Born into a Hindu family of a high caste, Guru Nanak had a revelatory experience at a young age, denounced his faith and caste, and realized that "there is one God and one human race."

Which gurbani is written by Guru Nanak Dev Ji? The writings of Guru Nanak Dev ji were integrated into the scripture of Guru Granth Sahib by the fifth Guru Arjan Dev ji in the form of 974 spiritual hymns comprising the Japji Sahib, Asa di Var, Bara Mah, Sidh Gosht and Dakhni Onkar.

Who is the God of Sikhism? Sikhs believe there is only one God, which is genderless and eternal. They refer to God as Waheguru. Sikhs believe in rebirth and karma, meaning their religion is a way of life and that in every action, they should remember God.

Did Guru Nanak have a wife? Guru Nanak Ji was married to Bibi Sulakhani of Gurdaspur district at the age of fourteen. They had two sons named Sri Chand and Lakhmi Chand.

Who is God according to Guru Nanak Dev Ji? Guru Nanak emphasized the "formless" God, spoken of as Nirankar. God may be spoken of in many ways—as Allah or Brahman, Ram or Rahim. But the great name of God is Truth. God cannot be known in any image or form; the Nirankar is invisible, infinite, beyond the confines of form.

What are the two main teachings of Guru Nanak? The most famous teachings attributed to Guru Nanak are that there is only one God, and that all human beings can have direct access to God with no need of rituals or priests. His most radical social teachings denounced the caste system and taught that everyone is equal, regardless of caste or gender.

Are Waheguru and Guru Nanak the same? In sikhi we believe waheguru God is everywhere so technically speaking the Guru is God, also ordinary Human beings are God as well similar to Guru Nanak. The divinity lies in everyone and everything that is living and non-living and is everlasting meaning it was Not created nor destroyed.

Why did Guru Nanak disappear for 3 days? Guru Nanak Dev Ji, the founder of Sikhism, is believed to have attained enlightenment after taking a dip in the Kali Bein. Guru Nanak Dev Ji is said to have disappeared while bathing in the Bein only to reappear three days later. Guru Nanak Dev Ji then proclaimed that "There is no Hindu and there is no Musalman.

What is Guru Nanak most famous for? Guru Nanak Ji (1469 -1539) was considered the founder of a new religion, i.e., Sikhism, and was the first Guru of Sikhs. He was a great Indian spiritual leader who believed in harmony and meditation in the name of the divine soul.

Who is the true guru in Sikhism? The year 1469 marks the birth of Guru Nanak, the founder of Sikhism. He was succeeded by nine other human gurus until, in 1708, the Guruship was finally passed on by the tenth guru to the holy Sikh scripture, Guru Granth Sahib, which is now considered the living Guru by the followers of the Sikh faith.

Did Guru Nanak eat meat? According to Dabistan e Mazhib (a contemporary Persian chronology of the Sikh Gurus), Guru Nanak did not eat meat, and Guru Arjan thought that meat eating was not in accordance with Nanak's wishes. This differs from I. J. Singh's research that states that Guru Nanak ate meat on the way to Kurukshetra.

Why did Guru Nanak not like Hinduism? Guru Nanak never created any religion he just showed the path to reach God without any baseless rituals and customs;he wanted to end caste system which was rigid in hinduism he just believed in humanity but the presisting rigid rituals and customs of Hinduism made follower of Guru Nanak to call themselves Sikh or ...

Do Sikhs worship Guru Nanak Dev Ji? No we don't. We pray to Waheguru and that is the only thing we believe in. We respect Guru Nank and we bow to Guru Nanak and the other Gurus including Sri Guru Granth Sahib as a sign of respect but such action does not constitute praying to them. We pray only to Waheguru.

Is Sikhism part of Hinduism? Hinduism is the most ancient religion of India, dating from about 2500 BC. Sikhism, which has influences from Hinduism, arose as a separate religion some 500 years ago. The majority of Sikhs live in the Punjab, whereas Hindus are found throughout India.

Why is Guru Nanak so important to Sikhs? Guru Nanak began teaching the importance of the equality of all people, regardless of their caste, religion or gender. He taught that everyone is created by God's will and therefore we must all be treated equally and with respect. Today, Sikhs follow this teaching.

Who is the God of the Sikh religion? Sikhism is a monotheistic and panentheistic religion. Sikhs believe that there exists only one God and that God is simultaneously within everything and is all-encompassing. The oneness of God is reflected by the phrase Ik Onkar. In Sikhism, the word for God is Waheguru (lit.

How to write waheguru in Punjabi? Waheguru (Punjabi: ????????, romanized: v?higur?, pronunciation: [?a????u?u?], literally meaning "Wow Guru", figuratively translated to mean "Wonderful God" or "Wonderful Lord") is a term used in Sikhism to refer to God as described in Guru Granth Sahib.

How to write Guru Nanak? Gur? N?nak (15 April 1469 – 22 September 1539; Gurmukhi: ???? ????; pronunciation: [g??u? na?n?k?],), also known as B?b? N?nak ('Father N?nak'), was the founder of Sikhism and is the first of the ten Sikh Gurus.

How to write Guru Granth Sahib in Punjabi? The Guru Granth Sahib (Punjabi: ???? ????? ?????, pronounced [???u? ???nt??? sä?(?)(?)b?(?)]) is the central holy

religious scripture of Sikhism, regarded by Sikhs as the final, sovereign and eternal Guru following the lineage of the ten human gurus of the religion.

How do you spell Guru Nanak Dev Ji?

The Math Book: From Pythagoras to the 57th Dimension

In its pages, "The Math Book" narrates the captivating tale of mathematics, from its humble origins to its astounding advancements in the modern era. This comprehensive tome chronicles 250 pivotal milestones in mathematical history, spanning the dawn of civilization to the cutting-edge discoveries of the 21st century.

Questions and Answers

Q1: Who is credited with the Pythagorean Theorem? A1: Pythagoras (570-495 BCE) is renowned for his eponymous theorem, which relates the lengths of the sides of a right triangle.

Q2: What is the significance of the Riemann Hypothesis? A2: The Riemann Hypothesis, proposed in 1859 by Bernhard Riemann, is a fundamental conjecture about the distribution of prime numbers. Its resolution would have profound implications for number theory.

Q3: What is the fourth dimension? A3: The fourth dimension, beyond the familiar three spatial dimensions, represents time. This concept was first proposed by Hermann Minkowski in 1907.

Q4: What is the Fermat-Catalan Conjecture? A4: The Fermat-Catalan Conjecture is a centuries-old problem that claims there are no positive integers a, b, c, and d such that $a^n + b^n = c^n + d^n$ for any integer n greater than 2.

Q5: What is the 57th dimension? A5: The 57th dimension, and dimensions beyond, are topics of ongoing research in theoretical and mystical realms. The concept of higher dimensions is used in string theory and other advanced scientific models.

Conclusion

"The Math Book" serves as an illuminating guide through the labyrinthine world of mathematics. Its journey through time and ideas reveals the profound contributions made by countless scholars and scientists, and inspires us to marvel at the boundless possibilities of mathematical exploration.

How many hours a day to study for CISSP? Passing CISSP in 30 days is possible but extremely challenging. It's best suited for experienced professionals with extensive knowledge across all eight CISSP domains. You'll need to dedicate full-time hours to studying, potentially 8-10 hours daily.

Can I pass CISSP in 3 months? Achieving the CISSP certification in just 3 months is possible. It requires proper preparation and dedication. Candidates should focus on: Studying the official study guide.

How many people pass CISSP on first try? ISC2 does not publicly disclose the exact pass rate for the CISSP exam on the first try. However, it is widely recognized as a challenging exam, with various sources suggesting a pass rate of around 50-70%.

What is the failure rate for the CISSP exam? It is assumed that the CISSP pass rate is about 20%. CISSP stands for Certified Information Systems Security Professional and is the first ISO/IEC 17024-compliant certification.

Does CISSP expire after 3 years? Fees and ongoing certification The final step is payment of the annual maintenance fee of $135 (as of 2024). The CISSP credential is valid for three years; holders renew either by submitting 40 Continuing Professional Education (CPE) credits per year over three years or re-taking the exam.

Is CISSP really hard? It is considered a hard exam to crack due to the wide range of syllabus. CISSP CBK was designed to check the candidates' overall knowledge and expertise. It is a time-bound test; candidates need to complete the exam within a fixed timeframe, which many candidates find hard to achieve.

Can you pass CISSP with self study? Yes, you can self-study for the CISSP exam. Many candidates choose this route due to its flexibility and the wide range of resources available for self-paced learning. Self-study allows you to tailor your

preparation to fit your schedule, learning style, and pace, making it a viable option for busy professionals.

How to prepare for CISSP in 30 days?

Can you pass CISSP with self study? Yes, you can self-study for the CISSP exam. Many candidates choose this route due to its flexibility and the wide range of resources available for self-paced learning. Self-study allows you to tailor your preparation to fit your schedule, learning style, and pace, making it a viable option for busy professionals.

Is the CISSP exam difficult? CISSP is significantly more difficult than Security+ because it requires a broader and deeper understanding of information security principles and practices, along with a minimum of five years of professional experience.

How can I pass CISSP fast? To prepare for the CISSP exam, study the CISSP exam outline, use official guides and online courses, join study groups, and practice with sample exams. Focus on weak areas and adjust your study plan as needed. Understanding the CISSP exam's structure isn't just a recommendation—it's essential.

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