

6 Divided By 5

6

6 (six) is the natural number following 5 and preceding 7. It is a composite number and the smallest perfect number. A six-sided polygon is a hexagon - 6 (six) is the natural number following 5 and preceding 7. It is a composite number and the smallest perfect number.

Division by zero

5 "Thou Shalt Not Divide By Zero", pp. 77–96 Seife, Charles (2000), Zero: The Biography of a Dangerous Idea, New York: Penguin, ISBN 0-14-029647-6 Suppes - In mathematics, division by zero, division where the divisor (denominator) is zero, is a problematic special case. Using fraction notation, the general example can be written as ?

a

0

$$\{\tfrac{a}{0}\}$$

?, where ?

a

$$a$$

? is the dividend (numerator).

The usual definition of the quotient in elementary arithmetic is the number which yields the dividend when multiplied by the divisor. That is, ?

c

=

a

b

$$c=\tfrac{a}{b}$$

? is equivalent to ?

c

×

b

=

a

$$\{\displaystyle c\times b=a\}$$

?. By this definition, the quotient ?

q

=

a

0

$$\{\displaystyle q=\{\tfrac {a}{0}\}\}$$

? is nonsensical, as the product ?

q

×

0

$$\{\displaystyle q\times 0\}$$

? is always ?

0

$\{ \displaystyle 0 \}$

? rather than some other number ?

a

$\{ \displaystyle a \}$

?. Following the ordinary rules of elementary algebra while allowing division by zero can create a mathematical fallacy, a subtle mistake leading to absurd results. To prevent this, the arithmetic of real numbers and more general numerical structures called fields leaves division by zero undefined, and situations where division by zero might occur must be treated with care. Since any number multiplied by zero is zero, the expression ?

0

0

$\{ \displaystyle \{ \tfrac{0}{0} \} \}$

? is also undefined.

Calculus studies the behavior of functions in the limit as their input tends to some value. When a real function can be expressed as a fraction whose denominator tends to zero, the output of the function becomes arbitrarily large, and is said to "tend to infinity", a type of mathematical singularity. For example, the reciprocal function, ?

f

(

x

)

=

1

x

$$f(x)=\frac{1}{x}$$

?, tends to infinity as ?

x

$$x$$

? tends to ?

0

$$0$$

?. When both the numerator and the denominator tend to zero at the same input, the expression is said to take an indeterminate form, as the resulting limit depends on the specific functions forming the fraction and cannot be determined from their separate limits.

As an alternative to the common convention of working with fields such as the real numbers and leaving division by zero undefined, it is possible to define the result of division by zero in other ways, resulting in different number systems. For example, the quotient ?

a

0

$$\frac{a}{0}$$

? can be defined to equal zero; it can be defined to equal a new explicit point at infinity, sometimes denoted by the infinity symbol ?

?

$$\infty$$

?; or it can be defined to result in signed infinity, with positive or negative sign depending on the sign of the dividend. In these number systems division by zero is no longer a special exception per se, but the point or points at infinity involve their own new types of exceptional behavior.

In computing, an error may result from an attempt to divide by zero. Depending on the context and the type of number involved, dividing by zero may evaluate to positive or negative infinity, return a special not-a-number value, or crash the program, among other possibilities.

Deus Ex: Mankind Divided

Deus Ex: Mankind Divided is a 2016 action role-playing game developed by Eidos-Montréal and published by Square Enix for PlayStation 4, Windows, and Xbox - Deus Ex: Mankind Divided is a 2016 action role-playing game developed by Eidos-Montréal and published by Square Enix for PlayStation 4, Windows, and Xbox One in August 2016. Versions for Linux and macOS systems were released in 2016 and 2017, respectively. The game is the sequel to Deus Ex: Human Revolution and the fifth installment in the Deus Ex series. The gameplay combines first-person shooter, stealth and role-playing elements. It features exploration and combat in environments connected to the main hub of Prague and quests which grant experience and allow customization of the main character's abilities with Praxis Kits. Conversations between characters have a variety of responses, with options in conversations and at crucial story points affecting how events play out. Players can complete Breach, a cyberspace-set challenge mode, in addition to the main campaign. Breach was later released as a free, standalone product.

Set two years after Human Revolution in 2029, the world is divided between normal humans and those with advanced, controversial artificial organs dubbed "augmentations". After a violent event known as the Aug Incident, augmented people have been segregated; this prompts heated debate and an era of "mechanical apartheid". Main protagonist Adam Jensen, equipped with advanced new augmentations after Human Revolution, is a double agent for the hacker group Juggernaut Collective to expose the Illuminati, which is orchestrating events behind the scenes. The story explores themes of transhumanism and discrimination, using the series' recurring cyberpunk setting and conspiracy theory motif.

Production of Mankind Divided began after completion of the Human Revolution expansion The Missing Link. Eidos-Montréal wanted to improve its gameplay and narrative, and address criticism from fans and reviewers of Human Revolution. The gameplay and graphics engine were rebuilt from scratch for next-generation hardware. A greater focus on realism and the story's darker themes resulted in a subdued color range compared to the previous game. Human Revolution composer Michael McCann returned to write the score with newcomers Sascha Dikiciyan and Ed Harrison.

Mankind Divided was announced in 2015, after a lengthy promotional campaign. Subsequent marketing slogans were criticized by journalists, and a divisive tier-based preorder campaign was cancelled due to player backlash. Post-launch, story-based downloadable content was released in 2016. The game received positive reviews from critics, who praised its narrative, graphics and gameplay. Criticism focused on the brevity of its campaign and the handling of its themes. Although the game initially placed highly on sales charts, it was rumored to be a commercial disappointment and it was speculated that the series would be put on hold.

Taj: Divided by Blood

Taj: Divided by Blood is an Indian period drama streaming television series produced by Contiloe Pictures for ZEE5. The series stars Dharmendra, Naseeruddin - Taj: Divided by Blood is an Indian period drama streaming television series produced by Contiloe Pictures for ZEE5. The series stars Dharmendra, Naseeruddin Shah, Rahul Bose, Aditi Rao Hydari, Zarina Wahab, Sandhya Mridul, Aashim Gulati and Taaha Shah in primary roles. It is produced by Abhimanyu Singh, Roopali Singh and William Borthwick.

The first season premiered on ZEE5 on 3 March 2023. The second season, titled Taj: Reign of Revenge, premiered on 12 May 2023.

January 6 United States Capitol attack

within seven months. Damage caused by attackers exceeded \$2.7 million. Called to action by Trump on January 5 and 6, thousands of his supporters gathered - On January 6, 2021, the United States Capitol in Washington, D.C., was attacked by a mob of supporters of President Donald Trump in an attempted self-coup, two months after his defeat in the 2020 presidential election. They sought to keep him in power by preventing a joint session of Congress from counting the Electoral College votes to formalize the victory of the president-elect Joe Biden. The attack was unsuccessful in preventing the certification of the election results. According to the bipartisan House select committee that investigated the incident, the attack was the culmination of a plan by Trump to overturn the election. Within 36 hours, five people died: one was shot by the Capitol Police, another died of a drug overdose, and three died of natural causes, including a police officer who died of a stroke a day after being assaulted by rioters and collapsing at the Capitol. Many people were injured, including 174 police officers. Four officers who responded to the attack died by suicide within seven months. Damage caused by attackers exceeded \$2.7 million.

Called to action by Trump on January 5 and 6, thousands of his supporters gathered in Washington, D.C. to support his false claims that the 2020 election had been "stolen by emboldened radical-left Democrats" and demand that then-vice president Mike Pence and Congress reject Biden's victory. Starting at noon on January 6 at a "Save America" rally on the Ellipse, Trump gave a speech in which he repeated false claims of election irregularities and said "If you don't fight like hell, you're not going to have a country anymore". As Congress began the electoral vote count, thousands of attendees, some armed, walked to the Capitol, and hundreds breached police perimeters. Among the rioters were leaders of the Proud Boys and the Oath Keepers militia groups.

The FBI estimates 2,000–2,500 people entered the Capitol Building during the attack. Some participated in vandalism and looting, including in the offices of then-House speaker Nancy Pelosi and other Congress members. Rioters assaulted Capitol Police officers and journalists. Capitol Police evacuated and locked down both chambers of Congress and several buildings in the Complex. Rioters occupied the empty Senate chamber, while federal law enforcement officers defended the evacuated House floor. Pipe bombs were found at the Democratic National Committee and Republican National Committee headquarters, and Molotov cocktails were discovered in a vehicle near the Capitol. Trump resisted sending the National Guard to quell the mob. That afternoon, in a Twitter video, he restated false claims about the election and told his supporters to "go home in peace". The Capitol was cleared of rioters by mid-evening, and the electoral vote count was resumed and completed by the morning of January 7, concluding with Pence declaring the final electoral vote count in favor of President-elect Biden. Pressured by his cabinet, the threat of removal, and resignations, Trump conceded to an orderly transition of power in a televised statement.

A week after the attack, the House of Representatives impeached Trump for incitement of insurrection, making him the only U.S. president to be impeached twice. After Trump had left office, the Senate voted 57–43 in favor of conviction, but fell short of the required two-thirds, resulting in his acquittal. Senate Republicans blocked a bill to create a bipartisan independent commission to investigate the attack, so the House instead approved a select investigation committee. They held public hearings, voted to subpoena Trump, and recommended that the Department of Justice (DOJ) prosecute him. Following a special counsel investigation, Trump was indicted on four charges, which were all dismissed following his reelection to the presidency. Trump and elected Republican officials have promoted a revisionist history of the event by downplaying the severity of the violence, spreading conspiracy theories, and portraying those charged with crimes as hostages and martyrs.

Of the 1,424 people then charged with federal crimes relating to the event, 1,010 pled guilty, and 1,060 were sentenced, 64% of whom received a jail sentence. Some participants were linked to far-right extremist groups or conspiratorial movements, including the Oath Keepers, Proud Boys, and Three Percenters, some of whom were convicted of seditious conspiracy. Enrique Tarrio, then chairman of the Proud Boys, received the longest sentence, a 22-year prison term. On January 20, 2025, upon taking office, Trump granted clemency to all January 6 rioters, including those convicted of violent offenses.

5.56×45mm NATO

containing 2,700 rounds divided across nine PVC bags of ten thirty-round cartons each and a conventional M2A1 box containing 800 rounds divided across forty twenty-round - The 5.56×45mm NATO (official NATO nomenclature 5.56 NATO, commonly pronounced "five-five-six") is a rimless bottlenecked centerfire intermediate cartridge family developed in the late 1970s in Belgium by FN Herstal. It consists of the SS109, L110, and SS111 cartridges. On 28 October 1980, under STANAG 4172, it was standardized as the second standard service rifle cartridge for NATO forces as well as many non-NATO countries. Though they are not identical, the 5.56×45mm NATO cartridge family was derived from the .223 Remington cartridge designed by Remington Arms in the early 1960s, which has a near-identical case but fires a slightly larger 5.70 mm (.2245 in) projectile.

Division (mathematics)

subtraction, and multiplication. What is being divided is called the dividend, which is divided by the divisor, and the result is called the quotient - Division is one of the four basic operations of arithmetic. The other operations are addition, subtraction, and multiplication. What is being divided is called the dividend, which is divided by the divisor, and the result is called the quotient.

At an elementary level the division of two natural numbers is, among other possible interpretations, the process of calculating the number of times one number is contained within another. For example, if 20 apples are divided evenly between 4 people, everyone receives 5 apples (see picture). However, this number of times or the number contained (divisor) need not be integers.

The division with remainder or Euclidean division of two natural numbers provides an integer quotient, which is the number of times the second number is completely contained in the first number, and a remainder, which is the part of the first number that remains, when in the course of computing the quotient, no further full chunk of the size of the second number can be allocated. For example, if 21 apples are divided between 4 people, everyone receives 5 apples again, and 1 apple remains.

For division to always yield one number rather than an integer quotient plus a remainder, the natural numbers must be extended to rational numbers or real numbers. In these enlarged number systems, division is the inverse operation to multiplication, that is $a = c / b$ means $a \times b = c$, as long as b is not zero. If $b = 0$, then this is a division by zero, which is not defined. In the 21-apples example, everyone would receive 5 apple and a quarter of an apple, thus avoiding any leftover.

Both forms of division appear in various algebraic structures, different ways of defining mathematical structure. Those in which a Euclidean division (with remainder) is defined are called Euclidean domains and include polynomial rings in one indeterminate (which define multiplication and addition over single-variable formulas). Those in which a division (with a single result) by all nonzero elements is defined are called fields and division rings. In a ring the elements by which division is always possible are called the units (for example, 1 and -1 in the ring of integers). Another generalization of division to algebraic structures is the quotient group, in which the result of "division" is a group rather than a number.

Standard RAID levels

RAID 0 (striping), RAID 1 (mirroring) and its variants, RAID 5 (distributed parity), and RAID 6 (dual parity). Multiple RAID levels can also be combined or - In computer storage, the standard RAID levels comprise a basic set of RAID ("redundant array of independent disks" or "redundant array of inexpensive disks") configurations that employ the techniques of striping, mirroring, or parity to create large reliable data stores from multiple general-purpose computer hard disk drives (HDDs). The most common types are RAID 0 (striping), RAID 1 (mirroring) and its variants, RAID 5 (distributed parity), and RAID 6 (dual parity). Multiple RAID levels can also be combined or nested, for instance RAID 10 (striping of mirrors) or RAID 01 (mirroring stripe sets). RAID levels and their associated data formats are standardized by the Storage Networking Industry Association (SNIA) in the Common RAID Disk Drive Format (DDF) standard. The numerical values only serve as identifiers and do not signify performance, reliability, generation, hierarchy, or any other metric.

While most RAID levels can provide good protection against and recovery from hardware defects or defective sectors/read errors (hard errors), they do not provide any protection against data loss due to catastrophic failures (fire, water) or soft errors such as user error, software malfunction, or malware infection. For valuable data, RAID is only one building block of a larger data loss prevention and recovery scheme – it cannot replace a backup plan.

PlayStation 5

The PlayStation 5 (PS5) is a home video game console developed by Sony Interactive Entertainment. It was announced as the successor to the PlayStation 4 - The PlayStation 5 (PS5) is a home video game console developed by Sony Interactive Entertainment. It was announced as the successor to the PlayStation 4 in April 2019, was launched on November 12, 2020, in Australia, Japan, New Zealand, North America, and South Korea, and was released worldwide a week later. The PS5 is part of the ninth generation of video game consoles, along with Microsoft's Xbox Series X/S consoles, which were released in the same month.

The base model includes an optical disc drive compatible with Ultra HD Blu-ray discs. The Digital Edition lacks this drive, as a lower-cost model for buying games only through download. The two variants were launched simultaneously. Slimmer hardware revisions of both models replaced the original models on sale in November 2023. A PlayStation 5 Pro model was released on November 7, 2024, featuring a faster GPU, improved ray tracing, and introducing an AI-driven upscaling technology.

The PlayStation 5's main hardware features include a solid-state drive customized for high-speed data streaming to enable significant improvements in storage performance, an AMD GPU capable of 4K resolution display at up to 120 frames per second, hardware-accelerated ray tracing for realistic lighting and reflections, and the Tempest Engine for hardware-accelerated 3D audio effects. Other features include the DualSense controller with haptic feedback, backward compatibility with the majority of PlayStation 4 and PlayStation VR games, and the PlayStation VR2 headset.

Divide and conquer

The term divide and conquer in politics refers to an entity gaining and maintaining political power by using divisive measures. This includes the exploitation - The term divide and conquer in politics refers to an entity gaining and maintaining political power by using divisive measures. This includes the exploitation of existing divisions within a political group by its political opponents, and also the deliberate creation or strengthening of such divisions.

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