

# 8

8

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Eighth power

$$1409^8 = 1324^8 + 1190^8 + 1088^8 + 748^8 + 524^8 + 478^8 + 223^8 + 90^8 .$$
$$1409^8=1324^8+1190^8+1088^8+748^8+524^8+478^8+223^8+90^8$$

In arithmetic and algebra, the eighth power of a number n is the result of multiplying eight instances of n together. So:

$$n^8 = n \times n \times n \times n \times n \times n \times n \times n.$$

Eighth powers are also formed by multiplying a number by its seventh power, or the fourth power of a number by itself.

The sequence of eighth powers of integers is:

0, 1, 256, 6561, 65536, 390625, 1679616, 5764801, 16777216, 43046721, 100000000, 214358881, 429981696, 815730721, 1475789056, 2562890625, 4294967296, 6975757441, 11019960576, 16983563041, 25600000000, 37822859361, 54875873536, 78310985281, 110075314176, 152587890625 ... (sequence A001016 in the OEIS)

In the archaic notation of Robert Recorde, the eighth power of a number was called the "zenzizenzizenzic".

8½

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*8½ (Italian: Otto e mezzo [??tto e m?m?ddzo]) is a 1963 avant-garde comedy-drama film co-written and directed by Federico Fellini. The metafictional narrative centers on famous Italian film director Guido Anselmi (Marcello Mastroianni) who suffers from writer's block as he attempts to direct an epic science fiction film. Claudia Cardinale, Anouk Aimée, Sandra Milo, Rossella Falk, Barbara Steele, and Eddra Gale portray the various women in Guido's life. The film was shot in black and white by cinematographer Gianni Di Venanzo and features a score by Nino Rota, with costume and set designs by Piero Gherardi. Throughout its run Fellini also uses surrealist passages to increase the film's fantastical atmosphere.*

*8½ was critically acclaimed and won the Academy Award for Best Foreign Language Film and Best Costume Design (black-and-white). It is acknowledged as an avant-garde film and a highly influential classic. It was ranked 10th on the British Film Institute's The Sight & Sound Greatest Films of All Time 2012 critics' poll and 4th by directors. It is included in the Vatican's compilation of 45 important films made before 1995, the 100th anniversary of cinema. The film ranked 7th in BBC's 2018 list of The 100 Greatest Foreign Language Films voted by 209 film critics from 43 countries around the world.*

It was included on the Italian Ministry of Cultural Heritage's 100 Italian films to be saved, a list of 100 films that "have changed the collective memory of the country between 1942 and 1978". It is considered to be one of the greatest and most influential films of all time.

## UTF-8

*from Unicode Transformation Format – 8-bit. As of July 2025, almost every webpage is transmitted as UTF-8. UTF-8 supports all 1,112,064 valid Unicode*

UTF-8 is a character encoding standard used for electronic communication. Defined by the Unicode Standard, the name is derived from Unicode Transformation Format – 8-bit. As of July 2025, almost every webpage is transmitted as UTF-8.

UTF-8 supports all 1,112,064 valid Unicode code points using a variable-width encoding of one to four one-byte (8-bit) code units, which breaks-down as follows:

Code points with lower numerical values, which tend to occur more frequently, are encoded using fewer bytes. It was designed for backward compatibility with ASCII: the first 128 characters of Unicode, which correspond one-to-one with ASCII, are encoded using a single byte with the same binary value as ASCII, so that a UTF-8-encoded file using only those characters is identical to an ASCII file. Most software designed for any extended ASCII can read and write UTF-8, and this results in fewer internationalization issues than any alternative text encoding.

UTF-8 is dominant for all countries/languages on the internet, with 99% global average use, is used in most standards, often the only allowed encoding, and is supported by all modern operating systems and programming languages.

## 2-8-8-8-2

*Under the Whyte notation for the classification of steam locomotives, a 2-8-8-8-2 has two leading wheels, four sets of eight driving wheels, and two trailing*

Under the Whyte notation for the classification of steam locomotives, a 2-8-8-8-2 has two leading wheels, four sets of eight driving wheels, and two trailing wheels. Because of its length, such a locomotive must be an multiplex locomotive. It is longer than a normal articulated locomotive; the fourth set of drivers is located under the tender.

Other equivalent classifications are:

UIC classification: 1-D-D-D-D-1 (also known as German classification and Italian classification)

AAR classification: 1-D-D-D-D-1

French classification: 140+040+040+041

Turkish classification: 45+44+44+45

Swiss classification: 4/5+4/4+4/4+4/5

The equivalent UIC classification is to be refined to (1'D)DD(D1').

## iPhone 8

*iPhone 8 and iPhone 8 Plus are smartphones developed and marketed by Apple Inc. They are the eleventh generation of the iPhone. The iPhone 8 was released*

The iPhone 8 and iPhone 8 Plus are smartphones developed and marketed by Apple Inc. They are the eleventh generation of the iPhone. The iPhone 8 was released on September 22, 2017, succeeding the iPhone 7 and iPhone 7 Plus, respectively.

The designs of the iPhone 8 and 8 Plus are largely similar to that of their predecessors except for the addition of a glass back. The iPhone 8 and 8 Plus were the final flagship iPhone models to feature the home button and Touch ID. Notable changes include the removal of the rose gold and jet black color variants, addition of inductive charging, a faster processor, and improved cameras and displays. The iPhone 8 and 8 Plus share most of their internal hardware with the iPhone X.

The iPhone 8 and 8 Plus were discontinued as of February 2020, having sold 86.3 million units worldwide, making them one of the best-selling smartphones of all time. They initially shipped with iOS 11 and supported up to iOS 16, and do not support iOS 17.

The second and third generations of the entry level iPhone SE retain the iPhone 8's exterior dimensions and Touch ID, with upgraded hardware.

Kaiju No. 8

*Kaiju No. 8 (Japanese: 怪獣8号, Hepburn: Kaijū Hachigō), also known in English as Monster #8, is a Japanese manga series written and illustrated by Naoya*

Kaiju No. 8 (Japanese: 怪獣8号, Hepburn: Kaijū Hachigō), also known in English as Monster #8, is a Japanese manga series written and illustrated by Naoya Matsumoto. It was serialized on Shueisha's Shōnen Jump+ online platform from July 2020 to July 2025, with its chapters collected in 15 tankōbon volumes as of March 2025. Shueisha has also published the series digitally on its Manga Plus platform in English and several other languages. Viz Media began publishing the series digitally in August 2020 and has published the series in print in North America since December 2021.

The story follows Kafka Hibino who, after ingesting a parasitic creature, gains the ability to turn into a kaiju and now must navigate using his power while trying to become part of an organization that eliminates kaiju to fulfill a promise he made with a childhood friend. Matsumoto wrote the outline of the story of Kaiju No. 8 near the end of 2018 making it his second series for the magazine. The series was heavily influenced by Japanese tokusatsu media, especially Ultraman, while the author's struggles in the manga industry served as a basis for the main character's backstory.

An anime television series adaptation produced by Production I.G aired from April to June 2024, with a second season premiered in July 2025. The series has spawned a light novel, two spin-off manga series, and an upcoming video game.

By March 2025, the manga had over 18 million copies in circulation. The series has been praised for its premise, characters, and art. The series won the Next Manga Award in the web manga category in 2021 and was nominated for the Eisner Award in 2022.

2-8-8-8-4

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Other equivalent classifications are:

UIC classification: (1?D)D(D2?)

French classification: 140+040+042

Turkish classification: 45+44+46

Swiss classification: 4/5+4/4+4/6

Only one 2-8-8-8-4 was ever built, a Mallet-type for the Virginian Railway in 1916. Built by Baldwin Locomotive Works, it became the only example of their class XA, so named due to the experimental nature of the locomotive. Like the same railroad's large articulated electrics and the Erie Railroad 2-8-8-8-2s, it was nicknamed "Triplex".

The XA was unable to sustain a speed greater than five miles an hour, since the six cylinders could easily consume more steam than the boiler could produce. When operating in compound the high pressure steam was divided between the cylinders of the center engine. The exhaust from one cylinder was piped to the front articulated engine. The exhaust from the other center engine cylinder was piped to the tender engine.

The exhaust from the front engine was piped to the exhaust nozzle inside the firebox to generate draft through the firebox, through the fire tubes and out the exhaust stack. The exhaust from the tender engine went out of a stack at the rear of the tender water tank. Unfortunately it did not contribute to draft, being wasted. The tender had a four-wheel truck at the rear to help guide the locomotive into curves when drifting back downhill after pushing a train over the hill.

The XA was sent back to Baldwin in 1920 and was rebuilt as two locomotives, a 2-8-8-0 and a 2-8-2. Unlike their predecessor which lasted only a few years in service, these two locomotives remained in service until 1953. However, neither of the two locomotives were preserved.

## Pixel 8

*The Pixel 8 and Pixel 8 Pro are a pair of Android smartphones designed, developed, and marketed by Google as part of the Google Pixel product line. They*

The Pixel 8 and Pixel 8 Pro are a pair of Android smartphones designed, developed, and marketed by Google as part of the Google Pixel product line. They serve as the successors to the Pixel 7 and Pixel 7 Pro, respectively. Visually, the phones resemble their respective predecessors, with incremental upgrades to their displays and performance. Powered by the third-generation Google Tensor system-on-chip, Google placed heavy emphasis on their artificial intelligence–powered features, especially in the realm of generative AI and photo editing.

The Pixel 8 and Pixel 8 Pro were officially announced on October 4, 2023, at the annual Made by Google event and were released in the United States on October 12. They received generally positive reviews from critics, who praised both the hardware and software despite their modest upgrades. The phones' AI features, Google's historic promise of seven years of software updates, and the Pro model's unconventional inclusion of a temperature sensor received significant attention and was heavily scrutinized, drawing mixed reactions. The mid-range variant Pixel 8a was released in May 2024.

## Super 8

*Super 8 in Wiktionary, the free dictionary. Super 8 or Super Eight may refer to: Super 8 film, a motion picture film format released in 1965 Super 8 film*

Super 8 or Super Eight may refer to:

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