

10 As A Mixed Number

Decimal

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The decimal numeral system (also called the base-ten positional numeral system and denary or decanary) is the standard system for denoting integer and non-integer numbers. It is the extension to non-integer numbers (decimal fractions) of the Hindu–Arabic numeral system. The way of denoting numbers in the decimal system is often referred to as decimal notation.

A decimal numeral (also often just decimal or, less correctly, decimal number), refers generally to the notation of a number in the decimal numeral system. Decimals may sometimes be identified by a decimal separator (usually "." or "," as in 25.9703 or 3,1415).

Decimal may also refer specifically to the digits after the decimal separator, such as in "3.14 is the approximation of π to two decimals".

The numbers that may be represented exactly by a decimal of finite length are the decimal fractions. That is, fractions of the form $a/10^n$, where a is an integer, and n is a non-negative integer. Decimal fractions also result from the addition of an integer and a fractional part; the resulting sum sometimes is called a fractional number.

Decimals are commonly used to approximate real numbers. By increasing the number of digits after the decimal separator, one can make the approximation errors as small as one wants, when one has a method for computing the new digits. In the sciences, the number of decimal places given generally gives an indication of the precision to which a quantity is known; for example, if a mass is given as 1.32 milligrams, it usually means there is reasonable confidence that the true mass is somewhere between 1.315 milligrams and 1.325 milligrams, whereas if it is given as 1.320 milligrams, then it is likely between 1.3195 and 1.3205 milligrams. The same holds in pure mathematics; for example, if one computes the square root of 22 to two digits past the decimal point, the answer is 4.69, whereas computing it to three digits, the answer is 4.690. The extra 0 at the end is meaningful, in spite of the fact that 4.69 and 4.690 are the same real number.

In principle, the decimal expansion of any real number can be carried out as far as desired past the decimal point. If the expansion reaches a point where all remaining digits are zero, then the remainder can be omitted, and such an expansion is called a terminating decimal. A repeating decimal is an infinite decimal that, after some place, repeats indefinitely the same sequence of digits (e.g., $5.123144144144144\dots = 5.123144$). An infinite decimal represents a rational number, the quotient of two integers, if and only if it is a repeating decimal or has a finite number of non-zero digits.

Multiracial people

people who are mixed with two or more races and the term multi-ethnic people refers to people who are of more than one ethnicities. A variety of terms

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races and the term multi-ethnic people refers to people who are of more than one ethnicities. A variety of terms have been used both historically and presently for multiracial people in a variety of contexts, including multiethnic, polyethnic, occasionally bi-ethnic, biracial, mixed-race, Métis, Muwallad, Melezi, Coloured, Douglá, half-caste, ?afakasi, mulatto, mestizo, mutt, Melungeon, quadroon, octoroon, griffe, sacatra,

sambo/zambo, Eurasian, hapa, h?fu, Garifuna, pardo, and Gurans. A number of these once-acceptable terms are now considered offensive, in addition to those that were initially coined for pejorative use.

Individuals of multiracial backgrounds make up a significant portion of the population in many parts of the world. In North America, studies have found that the multiracial population is continuing to grow. In many countries of Latin America, mestizos make up the majority of the population and in some others also mulattoes. In the Caribbean, multiracial people officially make up the majority of the population in the Dominican Republic (73%), Aruba (68%), and Cuba (51%).

List of poker variants

sometimes called a "tittle." Poker can be played in a mixed game format in which each variant will usually be played for a fixed number of hands or time

The card game of poker has many variations, most of which were created in the United States in the mid-1800s through the early 1900s. The standard order of play applies to most of these games, but to fully specify a poker game requires details about which hand values are used, the number of betting rounds, and exactly what cards are dealt and what other actions are taken between rounds.

Mixed martial arts

Mixed martial arts (MMA) is a full-contact fighting sport based on striking and grappling, incorporating techniques from various combat sports from around

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In the early 20th century, various inter-stylistic contests took place throughout Japan and the countries of East Asia. At the same time, in Brazil there was a phenomenon called vale tudo, which became known for unrestricted fights between various styles such as judo, Brazilian jiu-jitsu, catch wrestling, luta livre, Muay Thai and capoeira. An early high-profile mixed bout was Kimura vs Gracie in 1951. In mid-20th-century Hong Kong, rooftop street fighting contests between different martial arts styles gave rise to Bruce Lee's hybrid martial arts style, Jeet Kune Do. Another precursor to modern MMA was the 1976 Ali vs. Inoki exhibition bout, fought between boxer Muhammad Ali and wrestler Antonio Inoki in Japan, where it later inspired the foundation of Shooto in 1985, Pancrase in 1993, and the Pride Fighting Championships in 1997.

In the 1990s, the Gracie family brought their Brazilian jiu-jitsu style, first developed in Brazil from the 1920s, to the United States—which culminated in the founding of the Ultimate Fighting Championship (UFC) promotion company in 1993. The company held an event with almost no rules, mostly due to the influence of Art Davie and Rorion Gracie attempting to replicate mixed contests that existed in Brazil and Japan. They would later implement a different set of rules (example: eliminating kicking a grounded opponent), which differed from other leagues which were more in favour of realistic, "street-like" fights. The first documented use of the term mixed martial arts was in a review of UFC 1 by television critic Howard Rosenberg in 1993.

Originally promoted as a competition to find the most effective martial arts for real unarmed combat, competitors from different fighting styles were pitted against one another in contests with relatively few rules. Later, individual fighters incorporated multiple martial arts into their style. MMA promoters were pressured to adopt additional rules to increase competitors' safety, to comply with sport regulations and to broaden mainstream acceptance of the sport. Following these changes, the sport has seen increased popularity with a pay-per-view business that rivals boxing and professional wrestling.

Tom Aspinall

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Thomas Paul Aspinall (born 11 April 1993) is an English professional mixed martial artist. He currently competes in the Heavyweight division of the Ultimate Fighting Championship (UFC), where he is the current UFC Heavyweight Champion. As of 1 July 2025, he is #9 in the UFC men's pound-for-pound rankings. Aspinall is known for his finishing ability, having finished six of his eight UFC wins by the halfway point of the first round, and holds the UFC record for shortest average fight time at two minutes and two seconds.

Mixed-member proportional representation

Mixed-member proportional representation (MMP or MMPR) is a type of representation provided by some mixed electoral systems which combine local winner-take-all

Mixed-member proportional representation (MMP or MMPR) is a type of representation provided by some mixed electoral systems which combine local winner-take-all elections with a compensatory tier with party lists, in a way that produces proportional representation overall. Like proportional representation, MMP is not a single system, but a principle and goal of several similar systems. Some systems designed to achieve proportionality are still called mixed-member proportional, even if they generally fall short of full proportionality. In this case, they provide semi-proportional representation.

In typical MMP systems, voters get two votes: one to decide the representative for their single-seat constituency, and one for a political party, but some countries use single vote variants. Seats in the legislature are filled first by the successful constituency candidates, and second, by party candidates based on the percentage of nationwide or region-wide votes that each party received. The constituency representatives are usually elected using first-past-the-post voting (FPTP). The nationwide or regional party representatives are, in most jurisdictions, drawn from published party lists, similar to party-list proportional representation. To gain a nationwide representative, parties may be required to achieve a minimum number of constituency seats, a minimum percentage of the nationwide party vote, or both.

MMP differs from mixed-member majoritarian representation (often achieved by parallel voting) in that the nationwide seats are allocated to political parties in a compensatory manner in order to achieve proportional election results across all seats (not just the additional seats). Under MMP, two parties that each receive 25% of the votes end up with about 25% of the seats, even if one party wins more constituency seats than the other. Depending on the exact system implemented in a country and the results of a particular election, the proportionality of an election may vary. Overhang seats may reduce the proportionality of the system, although this can be compensated for by allocating additional party list seats to cover any proportionality gap.

The specific system of New Zealand for electing its parliament is called MMP, while in other countries similar systems are known under other names.

Andrea Vavassori

singles ranking of world No. 128, achieved on 19 June 2023. Vavassori is a mixed doubles Grand Slam champion with Sara Errani, lifting the titles at the

Andrea Vavassori (Italian pronunciation: [anˈdrɛˈa vavasˈsoːri]; born 5 May 1995) is an Italian professional tennis player. He has a career high ATP doubles ranking of world No. 6, achieved on 14 October 2024 and a singles ranking of world No. 128, achieved on 19 June 2023. Vavassori is a mixed doubles Grand Slam champion with Sara Errani, lifting the titles at the 2024 US Open – on their team debut at the event – and at the 2025 French Open and 2025 US Open. He also reached three major finals with Simone Bolelli at the 2024 and the 2025 Australian Open, and at the 2024 French Open. He is also a champion as part of the team that won the 2024 Davis Cup. In 2024 he was the only player with Sara Errani, at the 2024 Summer

Olympics, to qualify and play at the same time in singles, doubles and mixed doubles. Vavassori has won 10 ATP Tour and 16 ATP Challenger doubles titles.

Fraction

or as a mixed number, $3\frac{75}{100}$. Decimal fractions can also be expressed using scientific notation with negative exponents, such as 6.023×10^{-7} , a convenient

A fraction (from Latin: fractus, "broken") represents a part of a whole or, more generally, any number of equal parts. When spoken in everyday English, a fraction describes how many parts of a certain size there are, for example, one-half, eight-fifths, three-quarters. A common, vulgar, or simple fraction (examples: $\frac{1}{2}$ and $\frac{17}{3}$) consists of an integer numerator, displayed above a line (or before a slash like $1/2$), and a non-zero integer denominator, displayed below (or after) that line. If these integers are positive, then the numerator represents a number of equal parts, and the denominator indicates how many of those parts make up a unit or a whole. For example, in the fraction $\frac{3}{4}$, the numerator 3 indicates that the fraction represents 3 equal parts, and the denominator 4 indicates that 4 parts make up a whole. The picture to the right illustrates $\frac{3}{4}$ of a cake.

Fractions can be used to represent ratios and division. Thus the fraction $\frac{3}{4}$ can be used to represent the ratio 3:4 (the ratio of the part to the whole), and the division $3 \div 4$ (three divided by four).

We can also write negative fractions, which represent the opposite of a positive fraction. For example, if $\frac{1}{2}$ represents a half-dollar profit, then $-\frac{1}{2}$ represents a half-dollar loss. Because of the rules of division of signed numbers (which states in part that negative divided by positive is negative), $-\frac{1}{2}$, $\frac{-1}{2}$ and $\frac{1}{-2}$ all represent the same fraction – negative one-half. And because a negative divided by a negative produces a positive, $\frac{-1}{-2}$ represents positive one-half.

In mathematics a rational number is a number that can be represented by a fraction of the form $\frac{a}{b}$, where a and b are integers and b is not zero; the set of all rational numbers is commonly represented by the symbol $\mathbb{Q}$

Q

$\{\displaystyle \mathbb{Q}\}$

$\mathbb{Q}$ or $\mathbb{Q}$, which stands for quotient. The term fraction and the notation $\frac{a}{b}$ can also be used for mathematical expressions that do not represent a rational number (for example

$\frac{2}{2}$

$\frac{2}{2}$

$\{\displaystyle \textstyle \frac{\sqrt{2}}{2}\}$

), and even do not represent any number (for example the rational fraction

$\frac{1}{x}$

x

$\{\displaystyle \textstyle \frac{1}{x}\}$

).

Mongrel

A mongrel, mutt, or mixed-breed dog is a dog that does not belong to one officially recognized breed, including those that result from intentional breeding

A mongrel, mutt, or mixed-breed dog is a dog that does not belong to one officially recognized breed, including those that result from intentional breeding. Although the term mixed-breed dog is sometimes preferred, many mongrels have no known purebred ancestors.

Crossbreed dogs, and "designer dogs", while also a mix of breeds, differ from mongrels in being intentionally bred. At other times, the word mongrel has been applied to informally purpose-bred dogs such as curs, which were created at least in part from mongrels, especially if the breed is not officially recognized.

Although mongrels are viewed as of less commercial value than intentionally bred dogs, they are thought to be less susceptible to genetic health problems associated with inbreeding (based on the theory of heterosis), and have enthusiasts and defenders who prefer them to intentionally bred dogs.

Estimates place the prevalence of mongrels at 150 million animals worldwide.

Mixed electoral system

A mixed electoral system is one that uses different electoral systems to elect different seats in a legislature. Most often, this involves a First Past

A mixed electoral system is one that uses different electoral systems to elect different seats in a legislature. Most often, this involves a First Past the Post combined with a proportional component. The results of the combination may be mixed-member proportional (MMP), where the overall results of the elections are proportional, or mixed-member majoritarian, in which case the overall results are semi-proportional, retaining disproportionalities from the majoritarian component. Systems that use multiple types of combinations are sometimes called supermixed.

Mixed-member systems also often combine local representation (most often single-member constituencies) with regional or national (multi-member constituencies) representation, having multiple tiers. This also means voters often elect different types of representatives who might have different types of constituencies. Some representatives may be elected by personal elections where voters vote for candidates, and some by list elections where voters vote for electoral lists of parties.

In most mixed systems, every voter can influence both the district-based and PR aspects of an election, such as under parallel voting; however, some countries have multiple coexisting electoral systems that each apply to different voters.

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