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Feet to cm Centimeter (cm) or centimetre is a unit of length in the International System of Units (SI). Centi is a prefix for 1/100.One centimeter is equal to 1/100 of a meter (m).One centimeter is equal to 10 millimeters (mm).One centimeter is equal to 1/2.54 of an inch (in). Foot Foot (ft) is a unit of length.One foot is equal to 12 inches (in).One foot is equal to 1/3 of a yard (yd).One foot is equal to 30.48 centimeters (cm). How to convert centimeters to feet 1 centimeter is equal to 0.0328084 feet: 1cm = (1/2.54)/12ft = 0.0328084ft The distance d in feet (ft) is equal to the distance d in centimeters (cm) divided by 30.48: d(ft) = d(cm) / 30.48 Or feet = centimeters / 30.48 Example #1 Convert 20 cm to feet: 20cm = 20cm / 30.48cm/ft = 0.656168ft Example #2 Convert 50 cm to feet: 50cm = 50cm / 30.48cm/ft = 1.64042ft How many feet in a centimeter One centimeter is equal to 0.0328084 feet: 1cm = 1cm / 30.48cm/ft = 0.0328084ft How many centimeters in a foot One foot is equal to 30.48 centimeters: 1ft = 30.48ft = 30.48cm How to convert 10cm to feet Divide 10 centimeters by 30.48 to get feet: 10cm = 10cm / 30.48cm/ft = 0.328084ft Centimeters to feet conversion table Centimeters (cm) Feet (ft) 0.01 cm 0.000328 ft 0.1 cm 0.003281 ft 1 cm 0.032808 ft 2 cm 0.065617 ft 3 cm 0.098425 ft 4 cm 0.131234 ft 5 cm 0.164042 ft 6 cm 0.196850 ft 7 cm 0.229659 ft 8 cm 0.262467 ft 9 cm 0.295276 ft 10 cm 0.328084 ft 20 cm 0.656168 ft 30 cm 0.984252 ft 40 cm 1.312336 ft 50 cm 1.640420 ft 60 cm 1.968504 ft 70 cm 2.296588 ft 80 cm 2.624672 ft 90 cm 2.952756 ft 100 cm 3.280840 ft Feet to cm See also Use our calculator to convert between cm and feet for height, length or distance measurements. You can also use our reference chart of common conversions and read about how to convert. Here's what's on this page...On this page:Popular cm and feet conversionsCentimetersFeet1 cm0.03281 ft10 cm0.32808 ft20 cm0.65617 ft30 cm0.98425 ft40 cm1.31234 ft50 cm1.64042 ftFeetFt + inCentimeters5 feet. 5 in5' 5"165.1 cm5 feet. 6 in5' 6"167.64 cm5 feet. 7 in5' 7"170.18 cm5 feet. 8 in5' 8"172.72 cm5 feet. 9 in5' 9"175.26 cm5 feet. 10 in5' 10"177.8 cm5 feet. 11 in5' 11"180.34 cm5 feet6'182.88 cmNote: conversions are rounded to 2 decimal places.Full charts are available further down the page, and we also have a height comparison chart here.How to convert cm to feetThe formula for converting centimeters to feet is:Feet = Cm 30.48The formula for converting centimeters to feet AND inches is:Whole feet = floor(Cm 30.48)+Inches = (Cm 30.48 - Whole feet) 12Conversion methodologyTo convert centimeters to feet, divide your cm figure by 30.48. To convert to feet and inches,divide your cm figure by 30.48 to get your feet and then multiply the remainder decimal by 12 to get your inches.Example: Mabel is 171cm tall. She wants to know how tall she is in feet and inches. She can calculate as follows:Height in feet = 171 30.48 = 5.61 feet.There are 12 inches in a foot. Her height remainder in inches = 0.61 feet * 12 = 7.32 inches.Mabel's height is 5 feet 7.32 inches (5'7").180cm is equal to 5 feet and 11 inches (5'11"), rounded to the nearest inch. There are 30.48 centimeters in one foot.How to convert feet to cmTo convert feet to centimeters, multiply your feet figure by 30.48 (cm = feet 30.48). To convert from feet and inches,convert your feet figure to inches first (multiply it by 12), add on the inches remainder and then multiply the result by 2.54.Example: James is 5ft 10 inches tall. He wants to know how tall he is in centimeters. He can calculate as follows:Height in inches only = (5 feet 12) + 10 = 70 inches.Height in cm = 70 inches 2.54 = 177.8cm.James is 177.8cm tall.5 feet 7 inches is equal to 170.18 centimeters. As there are 2.54 cm in an inch, we can calculate it byconverting to inches first: ((5 12)+7) 2.54 = 170.18cm.Related calculatorsMeters to feet and inchesHeight converterCm to inchesCalculator by Alastair HazellLast updated: March 7, 2023Use this converter to easily convert between Centimeters and Feet (cm to ft, cm to feet). Quick navigation: A foot is defined as 0.3048 of a meter, so 30.48 centimeters equal one foot, since 1 cm = 0.01 meters. The symbol for centimeters is "cm", while "ft" is used for feet. Sometimes a single quote does the same job, e.g. 6' tall means 6 feet tall. Difference between Centimeters and Feet Both feet and centimeters are units for measuring length or dimensions of an object. Their magnitude is somewhat different, but there is significant overlap in their application, for example measuring human height, or waist circumference. Both units are used in construction, architecture, landscaping, and so on. However, feet are also used to measure small distances, while centimeters are usually used only for very small distances of up to a couple of meters. The origin of using the unit of foot is unclear as it goes very far back, likely before writing was invented. It was a part of many local systems of units, including the Greek, Roman, Chinese, French, and English systems of measurement. The length of a foot varied from location to location and sometimes depended on which trade it was applied to, but the length was typically between 250 mm and 335 mm. In medieval Europe the foot was taken as the average of length of the feet of randomly sampled men from a local community. Since 1959 the foot is defined using the metric system. Currently the US is the only country which prefers using the foot in preference to the meter in commerce, engineering and standardization of all kinds. The centimeter is part of the metric system, adopted in most countries nowadays. The base unit is the meter, which is defined by the distance light travels in vacuum in a fraction of a second. A centimeter is defined as 1/100 of a meter, so 1cm = 0.01m. How to convert Centimeters to Feet Conversion from feet to centimeters requires you to divide the measurement in feet to 30.48. Getting the centimeter equivalent of a foot measurement is much easier using our free online cm to ft converter above. Cm to feet conversion example Sample task: convert 185 cm to feet. Solution: Formula: cm / 30.48 = ft Calculation: 185 cm / 30.48 = 6.069554 ft End result: 185 cm is equal to 6.069554 ft 185 cm to feet is 6.06, so a person wight a height of 185 cm is approximately 6 feet and one inch tall. cm to ft conversion table cm to ft conversion table cm ft 1 cm 0.032808 ft 2 cm 0.065617 ft 3 cm 0.098425 ft 4 cm 0.131234 ft 5 cm 0.164042 ft 6 cm 0.196850 ft 7 cm 0.229659 ft 8 cm 0.262467 ft 9 cm 0.295276 ft 10 cm 0.328084 ft 20 cm 0.656168 ft 30 cm 0.984252 ft 40 cm 1.312336 ft 50 cm 1.640420 ft 60 cm 1.968504 ft 70 cm 2.296588 ft 80 cm 2.624672 ft 90 cm 2.952756 ft 100 cm 3.280840 ft 200 cm 6.561680 ft 300 cm 9.842520 ft 400 cm 13.123360 ft 500 cm 16.404199 ft 600 cm 19.685039 ft 700 cm 22.965879 ft 800 cm 26.246719 ft 900 cm 29.527559 ft 1,000 cm 32.808399 ft If you are looking to compare your height or your child's height to others of the same gender and country of residence, you will find our height comparison tool useful. 1 NIST Special Publication 330 (2008) - "The International System of Units (SI)", edited by Barry N-Taylor and Ambler Thompson 2 International Organization for Standardization (1993). ISO Standards Handbook: Quantities and units (3rd edition). Geneva: ISO. ISBN 92-67-10185-4. Temperature conversion Length conversion Area conversion Volume conversion Speed conversion Time conversion Angle conversion Pressure conversion Energy and power conversion iPhone and Android app Metric Conversion Table Centimeters conversion Feet conversion Feet to Centimeters Kilometers to Miles Miles to Kilometers Meters to Feet Feet to Meters Inches to Centimeters Millimeters to Inches Inches to Millimeters Feet to Inches Inches to Feet CentimetersDecimal FeetFeet & Inches100 cm3.2808 ft3 ft 3.37 in182.88 cm6.0000 ft6 ft 0 in30.48 cm1.0000 ft1 ft 0 inThis converter is useful in various real-world scenarios:Architecture & Construction: Quickly convert dimensions from the metric system to feet for building plans or renovations.Interior Design: Measure furniture and space layouts using both decimal feet for quick calculations and feet & inches for precision.Education: Help students understand unit conversions with clear, step-by-step calculations.DIY Projects: Convert measurements when working on home improvement projects where imperial units are required.FeatureApplicationExampleDecimal Feet ConversionQuick estimations in construction projects150 cm 4.9213 ftFeet & Inches ConversionDetailed measurements in carpentry or interior design182.88 cm 6 ft 0 inStep-by-Step CalculationEducational demonstrations of unit conversionSee the detailed steps below the resultClear FunctionalityReset values easily for multiple conversionsClicking Clear resets the formResponsive DesignWorks well on any deviceTables adjust on mobile screensQ1: What conversion factors are used? For decimal feet, 1 cm = 0.0328084 feet. For feet & inches, 1 inch = 2.54 cm.Q2: Can I convert fractional centimeter values? Yes, the converter accepts decimals for more precise conversions.Q3: How are feet & inches calculated? The total inches are computed first, then divided into whole feet and remaining inches.Q4: What are some practical applications of this converter? It is useful in fields such as architecture, interior design, education, and DIY projects.Q5: Does the converter work on mobile devices? Yes, the design is responsive and adapts to different screen sizes. Comma (,) and dot (.) are treated as decimal separators. The centimeter (cm) is a metric unit of length equal to one hundredth of a meter. It is commonly used in many countries around the world for measuring small lengths, such as body measurements or the dimensions of objects. The symbol for centimeter is "cm." In a practical sense, it helps people understand and compare lengths without using larger units like meters or kilometers.What is Feet (ft)The foot (ft) is an imperial unit of length that is equal to 12 inches. Traditionally used in the United States and the UK, it measures longer distances compared to centimeters. The symbol for feet is "ft." A foot is a practical unit for constructing buildings and other large objects, where using centimeters might be less convenient due to the larger scale of measurement.Conversion FormulasTo convert centimeters to feet, you can use the formula:feet=centimeters0.0328084 To convert feet back to centimeters, use the formula:centimeters=feet30.48 Lets look at some conversions from centimeters to feet:For 4 cm:feet=4cm0.0328084=0.131236ftFor 5 cm:feet=5cm0.0328084=0.164042ftFor 12 cm:feet=12cm0.0328084=0.3937008ftNow, for converting feet back to centimeters, consider these examples:For 4 ft:centimeters=4ft30.48=121.92cmFor 5 ft:centimeters=5ft30.48=152.4cmFor 12 ft:centimeters=12ft30.48=365.76cmWith these formulas and examples, it's clear how to perform conversions between centimeters and feet effectively. To convert from centimeter (cm) to feet (ft), simply apply the conversion formula or refer to the provided examples. Centimeter to Feet conversion table cm to ft conversion table Please provide values below to convert centimeter [cm] to foot [ft], or vice versa. Definition: A centimeter (symbol: cm) is a unit of length in the International System of Units (SI), the current form of the metric system. It is defined as 1/100 meters.History/origin: A centimeter is based on the SI unit meter, and as the prefix "centi" indicates, is equal to one hundredth of a meter. Metric prefixes range from factors of 10-18 to 1018 based on a decimal system, with the base (in this case the meter) having no prefix and having a factor of 1. Learning some of the more commonly used metric prefixes, such as kilo-, mega-, giga-, tera-, centi-, milli-, micro-, and nano-, can be helpful for quickly navigating metric units.Current use: The centimeter, like the meter, is used in all sorts of applications worldwide (in countries that have undergone metrication) in instances where a smaller denomination of the meter is required. Height is commonly measured in centimeters outside of countries like the United States.FootDefinition: A foot (symbol: ft) is a unit of length in the imperial and US customary systems of measurement. A foot was defined as exactly 0.3048 meters in 1959. One foot contains 12 inches, and one yard is comprised of three feet.History/origin: Prior to standardization of units of measurement, and the definition of the foot currently in use, the measurement of the foot was used in many different systems including the Greek, Roman, English, Chinese, and French systems, varying in length between each. The various lengths were due to parts of the human body historically being used as a basis for units of length (such as the cubit, hand, span, digit, and many others, sometimes referred to as anthropic units). This resulted in the measurement of a foot varying between 250 mm and 335 mm in the past compared to the current definition of 304.8 mm. While the United States is one of the few, if not only, countries in which the foot is still widely used, many countries used their own version of the foot prior to metrication, as evidenced by a fairly large list of obsolete feet measurements.Current use: The foot is primarily used in the United States, Canada, and the United Kingdom for many everyday applications. In the US, feet and inches are commonly used to measure height, shorter distances, field length (sometimes in the form of yards), etc. Feet are also commonly used to measure altitude (aviation) as well as elevation (such as that of a mountain). The international foot corresponds to human feet with shoe size 13 (UK), 14 (US male), 15.5 (US female), or 46 (EU).Centimeter [cm]Foot [ft]0.01 cm0.000328084 ft0.1 cm0.0032808399 ft1 cm0.032808399 ft2 cm0.0656167979 ft3 cm0.0984251969 ft5 cm0.1640419948 ft10 cm0.3280839895 ft20 cm0.656167979 ft50 cm1.6404199475 ft100 cm3.280839895 ft1000 cm32.8083989501 ft1 cm = 0.032808399 ft = 30.48 cmExample: convert 15 cm to ft.15 cm = 15 0.032808399 ft = 0.4921259843 ft A Centimeter to Foot Calculator is a simple online tool that helps you convert length or height from centimeters (cm) to feet (ft) instantly. This conversion is widely used in maths, science labs, sports, height measurement for forms, and day-to-day life. Since centimeters are a metric unit and feet are an imperial unit, a quick conversion helps you understand and compare measurements with ease. This calculator removes manual calculation errors and saves you time, especially during exams or paperwork where accuracy matters. Formula or Logic Behind Centimeter to Foot Conversion The standard conversion from centimeters to feet uses the fixed mathematical relationship: 1 foot = 30.48 centimeters To convert centimeters to feet, use the formula: Feet = Centimeters 30.48 If you also need the result in feet and inches (like for height), you can: First, divide the centimeter value by 30.48 to get feet in decimal. The whole number is the feet, then multiply the decimal part by 12 to get inches. For example, 170 cm = 170 / 30.48 = 5.5774 feet = 5 feet and (0.5774 12) 6.93 inches. Centimeter to Feet Conversion Chart Centimeter (cm) Feet (ft) Feet & Inches 1003.28083'3.37" 1504.92134'11.06" 1605.24935'3.39" 1705.57745'6.93" 1735.67595'8.12" 1805.90555'11.02" 1856.06966'0.83" 2006.56166'6.74" Steps to Use the Centimeter to Foot Calculator Enter the length or height in centimeters (cm) in the input box. Click on the 'Calculate' button below. Get instant results in feet, and also see feet + inches format for easy understanding. Why Use Vedantus Centimeter to Foot Calculator? Vedantus Centimeter to Foot Calculator is designed for speed, simplicity, and accuracy. It works instantly, is mobile-friendly, and shows step-by-step logic so you can also learn and explain your homework solutions. Enjoy 100% free access at any time, no login needed. Trusted by students nationwide and teachers for assignments, this tool helps you avoid manual mistakes and saves precious classroom or exam time. Real-life Applications of Centimeter to Foot Calculator Converting centimeters to feet is practical and useful in many areas. For example: Filling out school, college, or government forms that ask height in feet and inches. Sports and athletics to quickly check or record an athletes height. Science lab experiments or worksheets using international units. Shopping for shoes, clothes, or furniture online especially with sizing standards differing worldwide. Construction and travel, where plans and measurements differ in metric/imperial units. No matter your need, Vedantus tool provides instant, ready-to-share results for studies or daily living. You can also explore other measurement and maths tools on Vedantu, such as cm to inches calculator, Length Conversion Guide, HCF Calculator, or practice topics like Prime Numbers and Factors in Maths for more learning. Enter the length in centimeters below to convert it to feet. 1 cm = 0.032808 ft 1 cm = 0' 25/64" Learn how we calculate this below Cite As: Sexton, J. (n.d.). Centimeters to Feet Converter. Inch Calculator. Retrieved June 29, 2025, from To convert a measurement in centimeters to a measurement in feet, divide the length by the following conversion ratio: 30.48 centimeters/foot. Since there are 30.48 centimeters in one foot, you can use this cm to feet formula to convert: feet = centimeters 30.48 The length in feet is equal to the length in centimeters divided by 30.48. For example, here's how to convert 170 centimeters to feet using the formula above. feet = (170 cm 30.48) = 5.577428 ft So, 170 cm in feet is 5.577428. How to Convert cm to Feet and Inches Instead of seeing feet in decimal form, they are usually used with inches to represent a fraction of a foot. To convert cm to feet and inches, you'll need to follow a few extra steps. Step 1: Begin with the cm to feet conversion above to get the resulting feet in decimal form first. Step 2: Take the number to the left of the decimal as the number of whole feet. Step 3: Take the number to the right of the decimal point and convert it to inches. To do this, multiply it by 12, since there are 12 inches in one foot. Step 4: Round that result to the nearest whole number to get the number of inches. Step 5: Combine the number of whole feet and inches to get your final answer. Use our inch fraction calculator to convert decimal to fractional inches if needed. For example, to convert 170 cm to feet and inches, follow these steps: Begin by dividing the measurement in centimeters by 30.48 to get the total feet as a decimal. 170 cm 30.48 = 5.577428 ft Then, multiply the decimal remainder by 12. 0.577428 12 = 6.929136 Round this to the nearest whole number; in this case, 6.929136 can be rounded up to 7. This is the number of rounded inches. Put it all together by using the original whole number for the feet and the rounded decimal conversion as the inches. 170 cm 5 ft 7 in Note that we use an "approximately equal" sign instead of an equal sign as we performed some rounding of the measurement since 170 centimeters is not exactly equal to 5 feet, 7 inches. You can validate this result using our height converter. Centimeters to Feet and Inches Conversion Chart The following table shows common lengths in centimeters and their equivalent heights in feet and inches. Our height comparison chart has a more comprehensive list of height conversions. Chart showing conversions from centimeters to feet and feet+inches. CentimetersFeetFeet & Inches 5 cm0.164042 ft0 ft 2 in 10 cm0.328084 ft0 ft 3.9 in 15 cm0.492126 ft0 ft 5.9 in 20 cm0.656168 ft0 ft 7.9 in 25 cm0.82021 ft0 ft 9.8 in 30 cm0.984252 ft0 ft 11.8 in 35 cm1.1483 ft1 ft 1.8 in 40 cm1.3123 ft1 ft 3.7 in 45 cm1.4764 ft1 ft 5.7 in 50 cm1.6404 ft1 ft 7.7 in 55 cm1.8045 ft1 ft 9.7 in 60 cm1.9685 ft1 ft 11.6 in 65 cm2.1325 ft2 ft 1.6 in 70 cm2.2966 ft2 ft 3.6 in 75 cm2.4606 ft2 ft 5.5 in 80 cm2.6247 ft2 ft 7.5 in 85 cm2.7887 ft2 ft 9.5 in 90 cm2.9528 ft2 ft 11.4 in 95 cm3.1168 ft3 ft 1.4 in 100 cm3.2808 ft3 ft 3.4 in 105 cm3.4449 ft3 ft 5.3 in 110 cm3.6089 ft3 ft 7.3 in 115 cm3.773 ft3 ft 9.3 in 120 cm3.937 ft3 ft 11.2 in 125 cm4.1011 ft4 ft 1.2 in 130 cm4.2651 ft4 ft 3.2 in 135 cm4.4291 ft4 ft 5.1 in 140 cm4.5932 ft4 ft 7.1 in 145 cm4.7572 ft4 ft 9.1 in 150 cm4.9213 ft4 ft 11.1 in 155 cm5.0853 ft5 ft 1 in 160 cm5.2493 ft5 ft 3 in 165 cm5.4134 ft5 ft 5 in 170 cm5.5774 ft5 ft 6.9 in 175 cm5.7415 ft5 ft 8.9 in 180 cm5.9055 ft5 ft 10.9 in 185 cm6.0696 ft6 ft 0.8 in 190 cm6.2336 ft6 ft 2.8 in 195 cm6.3976 ft6 ft 4.8 in 200 cm6.5617 ft6 ft 6.7 in Centimeters and feet are both units used to measure length. Keep reading to learn more about each unit of measure. One centimeter is equal to one-hundredth (1/100) of a meter, which is defined as the distance light travels in a vacuum in 1/299,792,458 of a second. One centimeter is equal to 0.393701 inches. The centimeter, or centimetre, is a multiple of the meter, which is the SI base unit for length. In the metric system, "centi" is the prefix for hundredths, or 10-2. Centimeters can be abbreviated as cm; for example, 1 centimeter can be written as 1 cm. Metric rulers typically have 30 cm, which are represented by 30 large tick marks. To get a rough idea of the actual length of a centimeter, a standard number 2 pencil is just about 1 cm thick. Learn more about centimeters. The foot is a unit of length measurement equal to 12 inches or 1/3 of a yard. Because the international yard is legally defined to be equal to exactly 0.9144 meters, one foot is equal to 0.3048 meters.[1] The foot is a US customary and imperial unit of length. Feet can be abbreviated as ft; for example, 1 foot can be written as 1 ft. Feet can also be denoted using the symbol, otherwise known as a prime, though a single-quote (') is often used instead of the prime symbol for convenience. Using the prime symbol, 1 ft can be written as 1'. Measurements in feet are most commonly taken using either a standard 12" ruler or a tape measure, though there are many other measuring devices available. Feet are sometimes referred to as linear feet, which are simply a measurement of length in feet. You might be interested in our feet and inches calculator, which can add feet with other units of measurement such as inches, centimeters, or meters. Learn more about feet. We recommend using a ruler or tape measure for measuring length, which can be found at a local retailer or home center. Rulers are available in imperial, metric, or a combination of both values, so make sure you get the correct type for your needs. Need a ruler? Try our free downloadable and printable rulers, which include both imperial and metric measurements. ReferencesNational Institute of Standards and Technology, U.S. Survey Foot: Revised Unit Conversion Factors,

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