



1 cm to mm in scale

Amanda, we have two responses for you: Dear Amanda, One mm is one "millimeter" or one one-thousandth of a meter (1 cm = 1/100 m). Therefore, 1 cm = 10 mm. To convert mm to cm, divide the number of mm by 10 to get the number of cm. Hope this helps! Gabriel Hi Amanda. Metric measurements use the International System of Units (SI) prefixes. That means millimeter and cm means millimeter. With SI, "milli" always means "one-hundredths". There is a larger table in this earlier web page of ours. So to convert from mm into cm, you have to ask "how do I go from thousandths to hundredths?" You divide by ten. So 83 mm is 8.3 cm. Stephen La Rocque. > Rulers are an essential tool to have, but if you're struggling with how to read a ruler, you're not alone. There are so many lines on a ruler, it can get confusing to figure out what they all mean. In this guide, we'll explain why you should know how to read a ruler and give you step-by-step instructions on how to read a ruler in inches and cm. We'll also provide you with some helpful resources you can use to keep honing your ruler-reading skills. Why You Should Know How to Read a Ruler Knowing how to read a ruler in inches and cm. We'll also provide you with some helpful resources you can use to keep honing your ruler-reading skills. wanted to make something out of construction paper, you'd likely need to use a ruler to measure out how much of the material you would need. Or what if you wanted to frame a photo you have? In this case, you might have to measure the picture to see what kind of frame it would fit in. The truth is that there are tons of moments in life when you'll need to know how to read a ruler. And if you don't know how to read a ruler, then you'll likely suffer some consequences. For instance, what if you make two pieces of something that don't fit together because one is shorter or longer than it was supposed to be? Or what if you make two pieces of something that don't fit together because one is shorter or longer than it was supposed to be? measurement of a piece of string you cut? It's pretty obvious that knowing how to read a ruler is important to not just your grades in school but also your day-to-day life. How to Read a Ruler: Imperial vs Metric There are two types of rulers you can use: the inch, or imperial, ruler and the centimeter, or metric, ruler. Inches correspond to the imperial system, which is the main measuring system used in the US and a smattering of other countries. Meanwhile, centimeters are part of the metric system, which is used around the world in both everyday life and science. While we will be providing pictures you can use to follow our instructions, we recommend getting out your own ruler or measuring tape so you can follow along in real time. How to Read a Ruler in Inches Let's start by looking at how to read a ruler in che next section). Here's a picture of an inch ruler: Right away, you should be able to tell that this ruler uses inches, as it's divided into 12 equally spaced areas (labeled 1-12), and we know there are 12 inches in a foot (ignore the cm below). Now, notice the lines between each inch, with some longer and some shorter than others. Each of these tiny lines represents a fraction of an inch. There are five different lengths of lines in total. Each inch is divided into 16 lines, meaning that the space between each line is 1/16 inch lines, whereas others go down to 1/32 inch lines.) The inch is the biggest unit on a ruler and is represented by the longest line. Each 1-inch line is labeled with a number indicating what inch it is on the ruler (as the image above shows). Example: If you were to measure the length of a sheet of computer paper, the piece of paper would come up to the 11-inch mark on your ruler, indicating that it's exactly 11 inches long. The secondbiggest unit on a ruler is the 1/2 inch, which is represented by the second-longest line. These typically aren't labeled but might be on some rulers (in which case you'd see numbers such as 1 1/2 in, 2 1/2 in, etc.). The 1/2 inch line is located midway between every inch on a ruler. The midpoint between 7 and 8 inches, for instance, would be 7 1/2 (or 7.5) inches. Example: If you were to measure the width is 8 1/2 (8.5) inches, indicating that the width is 8 1/2 (8.5) inches. The third-biggest lines on a ruler are the 1/4 inch lines, which appear midway between the 1/2 inch and whole inch lines: If you counted in 1/4 inches on a ruler, you'd see that the fourth line after 0 inches equals 3/4 inch, the eighth line equals 3/4 inch. Example: Say you're measuring a piece of cloth and the ruler ends at the fourth line after the 10-inch mark. This would mean that the cloth is 10 1/4 (10.25) inches long. Next is 1/8 inch, which is the second-smallest unit of a ruler. The 1/8 lines are found midway between each 1/4-inch line 2/8 (1/4) inch, the sixth line 3/8 inch, the sixth line 3/8 inch, the sixth line 3/8 inch, the 12th line 6/8 (3/4) inch, and the 14th line 7/8 inch. Example: Say you decide to measure the length of a corn on the cob. You find that your ruler comes to the second line after the 6-inch mark. This would mean that the corn is 6 1/8 inches long. Finally, the smallest unit on a ruler is 1/16 inch. each line within the first inch of a ruler, you'd get the following measurements: 1/16 inch 3/16 inch 3/16 inch 12/16 (3/4) comes to the seventh line past 3 inches. This would mean that your finger is 3 7/16 inches long. Inch Ruler Practice Questions Look at the image above. What measurement, in inches, is it showing? If a pen comes to the 14th line after 5 inches, how long is it? Answers 11 3/4 inches 5 7/8 inches (also acceptable: 5 14/16 inches) How to Read a Ruler in Centimeters Now that we've looked at how to read a ruler in cm. This is especially important to know if you're studying science (recall that science generally uses the metric system — not the imperial system). Knowing how to read a ruler in cm is also helpful for people who'd prefer to not work with fractions (which you must do with inches) and who'd like to work with other units instead (in this case, millimeters). The standard metric ruler is 30 cm long. Each centimeter is labeled with a number to show the measurement it's referring to. You might see inches on the other side of your metric ruler. In this case, refer to the instructions above to learn how to read a ruler in inches. Also, be aware that 30 cm does not directly equal 12 inches, even though they are often put on the same ruler! Now then, here's what a typical metric ruler looks like: You can tell that this is a metric ruler because it's divided into 30 equally spaced sections and has "cm" written on it (ignore the inches below). Like the inches ruler, you'll see tons of lines on a metric ruler, with some longer and some shorter. Each line represents 1 millimeter, which is equal to 1/10 or 0.1 cm (so 10 mm make up 1 cm). There will always be 10 lines from one centimeter to the next centimeter. In total, there are three different lengths of lines on a metric ruler. The longest line represents the biggest unit on the ruler: 1 cm. Each centimeter is labeled on the ruler (1-30). Example: You take out a ruler to measure the width of your fingernail. The ruler stops at 1 cm, meaning that your nail is precisely 1 cm wide. The middle-length line on a metric ruler is the 1/2 (0.5) centimeter line, which comes midway between every centimeter (in other words, it's the fifth line after every whole centimeter): So if you counted five lines from 9 cm, for instance, you'd get 9.5 cm (or 95 mm). Example: Say you're measuring the width of your smartphone, and it comes up to the fifth line after 4 cm on your ruler. This would mean that the phone is 4.5 cm (45 mm) wide. The smallest unit a metric ruler can measure is 1 mm, or 0.1 cm. These are the smallest lines on the ruler, that is, the ones that come between the whole centimeter alone, every line from 0 would equal the following: 1 mm (0.2 cm) 3 mm (0.2 cm) 3 mm (0.2 cm) 5 mm (0.5 or 1/2 cm) 6 mm (0.7 cm) 8 mm (0.8 cm) 7 mm (0.8 cm) 7 mm (0.7 cm) 8 mm (0.8 cm) 7 mm (0.8 cm) 8 mm (0.8 c cm) 9 mm (0.9 cm) 10 mm (1 cm) Example: You're measuring the length of a strand of hair. The strand comes to the ninth line after 16 cm on the ruler. This would mean the strand is 16.9 cm long (that's 16 cm + 9 mm). Centimeter Ruler Practice Questions Look at the image above. What measurement, in centimeters, is it showing? You're measuring a pair of glasses, from the end of one lens to the far end of the other lens. Your ruler reaches the seventh line past 12 cm. How long is the pair of glasses? Answers 24.1 cm 12.7 cm (or 127 mm) 6 Additional Resources for Learning to Read a Ruler If you want any extra assistance with learning how to read a ruler in cm or inches, videos and worksheets can be excellent resources. Here are two easy-to-follow videos to further help you learn how to read a ruler: How to Read a Ruler in Inches How to Read a Ruler in States: K12 Math Worksheets DadsWorksheets.com Math-Aids.com TechEd LLC All of these resources, in addition to the handful of practice questions and fractions? Our expert guides will teach you how to convert decimals to fractions and how to add and subtract fractions . Metric rulers usually have only centimeters and millimeters on them. But did you know there's an even tinier unit called nanometers? Learn how to convert nanometers? Learn how to read them? Check out our detailed guide and you'll be on your way to understanding this ancient numerical system! Unit of length 1/1000 of a metre Further informationUnit systemSI derived unitUnit ofLengthSymbolmmNamed afterThe metric prefix mille (Latin for "one thousand") and the metre Conversions 1 mm in is equal to ... micrometres $1 \times 10-3$ m = 0.001 m kilometres $1 \times 10-3$ m = 0.001 m kilometres $1 \times 10-3$ m = 0.0032808 ft The millimetre (international spelling; SI unit symbol mm) or millimeter (American spelling) is a unit of length in the metric system, equal to one thousandth of a metre, which is the SI base unit of length. Therefore, there are one thousand millimetres in a metre. Since an inch is officially defined as exactly 25.4 millimetres, a millimetre is equal to exactly 5/127 (0.03937) of an inch. Definition Since 1983, the metre has been defined as "the length of the path travelled by light in 1/299792458 of a second. Informal terminology A common shortening of millimetre in spoken English is "mil". This can cause confusion since in the United States, "mil" traditionally means a thousandth of an inch. Unicode symbols For the purposes of compatibility with Chinese, Japanese and Korean (CJK) characters, Unicode has symbols for: millimetre (mm) - code U+339C[2] square millimetre (mm) - code U+339F[2] cubic millimetre (mm) - code U+33A3[2] In Japanese typography, these square symbols are used for laying out unit symbols without distorting the grid layout of text characters. Measurements are normally millimetres. [3] High-quality engineering rulers may be graduated in increments of 0.5 mm. Digital callipers are commonly capable of reading increments as small as 0.01 mm.[4] Microwaves with a frequency of 300 GHz have a wavelength of 1 mm. Using wavelength of 1 mm. Using wavelengths between 30 GHz and 300 GHz have a wavelength of 1 mm. [5] The smallest distances the human eye can resolve is around 0.02 to 0.04 mm, approximately the width of a thin human hair.[6] A sheet of paper is typically between 0.07 mm and 0.18 mm thick, with ordinary printer paper or copy paper approximately a tenth of a millimetre thick.[7] See also Look up millimetre in Wiktionary, the free dictionary. Metric system Orders of magnitude (length) Submillimetre astronomy References ^ "17th General Conference on Weights and Measures. Retrieved 3 December 2013. ^ a b c "CJK Compatibility" (PDF). unicode.org. Retrieved 3 December 2013. ^ "How do I read a ruler?". onlineconversion.com. Retrieved 3 December 2013. ^ "Accuracy of Calipers". TresnaInstrument.com. Retrieved 3 December 2013. ^ "Thickness of a Piece of Paper". hypertextbook.com. Archived from the original on 8 June 2017. Retrieved 3 December 2013. Retrieved from "2Range of lengths from the subatomic to the astronomical scales This article needs additional citations for verification. Please help improve this article by adding citations to reliable sources. Unsourced material may be challenged and removed. Find sources: "Orders of magnitude" length - news · newspapers · books · scholar · JSTOR (January 2020) (Learn how and when to remove this template message) Objects of sizes in different lengths. Overview Scale Range (m) Unit Example items $\geq <$ Subatomic - 0 - Singularity - 10-35 ℓ P Fixed value (not a range). Quantum foam, string 10-12 10-9 pm Wavelength of gamma rays and X-rays, hydrogen atom 10-9 10-6 nm DNA helix, virus, wavelength of optical spectrum Cellular to human 10-6 10-3 µm Bacterium, fog water droplet, human hair's diameter[note 1] 10-3 1 mm Mosquito, golf ball, domestic cat, violin, football field, Eiffel Tower 103 106 km Mount Everest, length of Panama Canal and Trans-Siberian Railway, larger asteroid Astronomical 106 109 Mm The Moon, Earth, one light-second 109 1012 Gm Sun, one light-minute, Earth's orbit 1012 1015 Tm Orbits of outer planets, Solar System 1015 1018 Pm A light-year, the distance to Proxima Centauri 1018 1021 Em Galactic arm 1021 1024 Zm Milky Way, distance to Andromeda Galaxy 1024 Ym Huge-LQG, Hercules-Corona Borealis Great Wall, visible universe Detailed list To help compare different orders of magnitude, the following list describes various lengths between 1.6 × 10 - 35 {\displaystyle 1.6\times 10^{-35}} metres and 10 10 10 122 {\displaystyle 1.6\times 10^{-35}} metres and 10 10 10 122 {\displaystyle 1.6\times 10^{-35}} Singularity 10-35 1 Planck length 0.000000000162 ym Planck length; typical scale of hypothetical loop quantum gravity or size of a hypothetical string and of branes; according to string theory lengths smaller than this do not make any physical sense.[1] Quantum foam is thought to exist at this level. 10-24 1 yoctometre (ym) 142 ym Effective cross section radius of 1 MeV neutrinos[2] 10-21 1 zeptometre (zm) Preons, hypothetical particles proposed as subcomponents of quarks and leptons; the upper bound for the width of a cosmic string in string theory 7 zm Effective cross section radius of high-energy neutrinos[3] 310 zm De Broglie wavelength of protons at the Large Hadron Collider (4 TeV as of 2012[update]) 10-18 1 attometre (am) Upper limit for the size of quarks and electrons Sensitivity of the LIGO detector for gravitational waves[4] Upper bound of the typical size range for "fundamental strings"[1] 10-17 10 am Range of the weak force 10-16 100 am 850 am Approximate proton radius[5] Atomic to cellular scale Factor (m) Multiple Value Item 10-15 1 femtometre (fm, fermi) 1 fm Approximate limit of the gluon-mediated color force between quarks[6][7] 1.5 fm Effective cross section radius of an 11 MeV proton[8] 2.81794 fm Classical electron radius[9] 3 fm Approximate limit of the meson-mediated nuclear binding force[6][7] 1.75 to 15 fm Diameter range of the atomic nucleus[1][10] 10-12 1 picometre (pm) 0.75 to 0.8225 pm Longest wavelength of electron 5 pm Wavelength of shortest X-rays 10-11 10 pm 28 pm Radius of helium atom 53 pm Bohr radius (radius of a hydrogen atom) 10-10 100 pm 100 pm 1 angström (also covalent radius of sulfur atom[11]) 154 pm Length of a typical covalent bond (C-C) 280 pm Average size of the water molecule (actual lengths may vary) 500 pm Width of protein α helix 10-9 1 nanometre (nm) 1 nm Diameter of a carbon nanotube[12] Diameter of a carb helix[14] 2.5 nm Smallest microprocessor transistor gate oxide thickness of cell membrane 10-8 10 nm semiconductor device fabrication node[16] 40 nm Extreme ultraviolet wavelength 50 nm Flying height of the head of a hard disk[17] 10-7 100 nm 121.6 nm Wavelength of the Lyman-alpha line[18] 120 nm Typical diameter of the human immunodeficiency virus (HIV)[19] 400-700 nm Approximate wavelength 50 nm Flying height of the head of a hard disk[17] 10-7 100 nm 121.6 nm Wavelength of the human immunodeficiency virus (HIV)[19] 400-700 nm Approximate wavelength for the human immunodeficiency virus (HIV)[19] 400-700 nm Approximate wavelength for the human immunodeficiency virus (HIV)[19] 400-700 nm Approximate wavelength for the human immunodeficiency virus (HIV)[19] 400-700 nm Approximate wavelength for the human immunodeficiency virus (HIV)[19] 400-700 nm Approximate wavelength for the human immunodeficiency virus (HIV)[19] 400-700 nm Approximate wavelength for the human immunodeficiency virus (HIV)[19] 400-700 nm Approximate wavelength for the human immunodeficiency virus (HIV)[19] 400-700 nm Approximate wavelength for the human immunodeficiency virus (HIV)[19] 400-700 nm Approximate wavelength for the human immunodeficiency virus (HIV)[19] 400-700 nm Approximate wavelength for the human immunodeficiency virus (HIV)[19] 400-700 nm Approximate wavelength for the human immunodeficiency virus (HIV)[19] 400-700 nm Approximate wavelength for the human immunodeficiency virus (HIV)[19] 400-700 nm Approximate wavelength for the human immunodeficiency virus (HIV)[19] 400-700 nm Approximate wavelength for the human immunodeficiency virus (HIV)[19] 400-700 nm Approximate wavelength for the human immunodeficiency virus (HIV)[19] 400-700 nm Approximate wavelength for the human immunodeficiency virus (HIV)[19] 400-700 nm Approximate wavelength for the human immunodeficiency virus (HIV)[19] 400-700 nm human scale Factor (m) Multiple Value Item 10-6 1 micrometre (µm) (also called 1 micron) 1-4 µm Typical length of a bacterium[21] 4 µm Typical size of a red blood cell[23] 10-5 10 µm 10 µm Typical size of a fog, mist, or cloud water droplet 10 µm Width of transistors in the Intel 4004, the world's first commercial microprocessor 12 µm Width of acrylic fiber 17-181 µm Width range of human hair [24] 10-4 100 µm 340 µm Size of a pixel on a 17-inch monitor with a resolution of 1024×768 560 µm Thickness of the central area of a human cornea [25] 750 µm Maximum diameter of Thiomargarita namibiensis. the largest bacterium ever discovered (as of 2010[update]) 10–3 1 millimetre (mm) ~5 mm Length of an average flea is 1-10 mm (usually

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