

Convert calculator to radians

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HOW TO SCALE A RECIPE

ADJUST THE SERVINGS OF A RECIPE

FIND THE CONVERSION FACTOR

$$\text{CONVERSION FACTOR} = \frac{\text{SERVINGS NEEDED}}{\text{RECIPE SERVINGS}}$$

MULTIPLY BY THE CONVERSION FACTOR

multiply each ingredient amount by the conversion factor

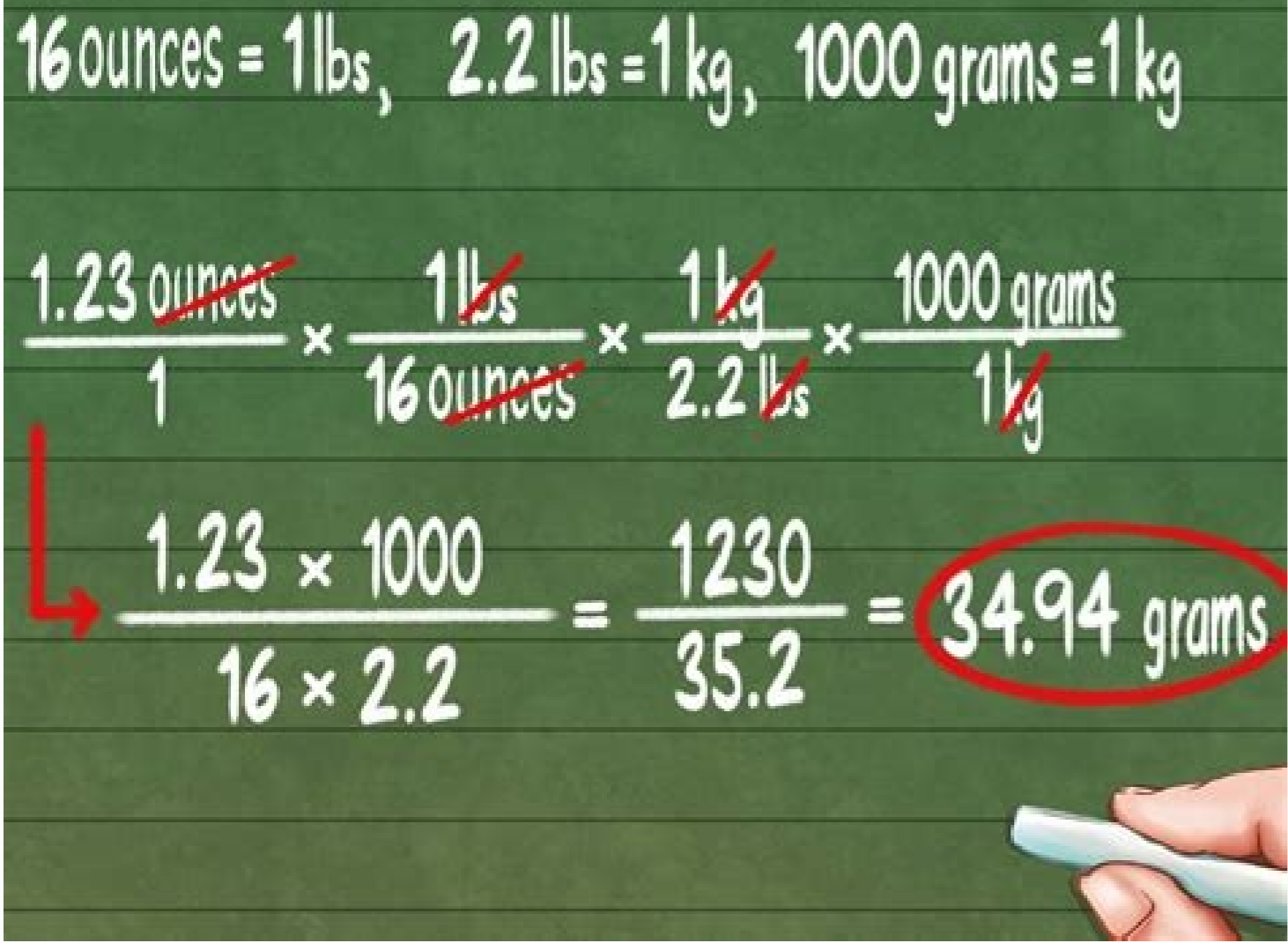
$$\text{REQUIRED AMOUNT} = \text{RECIPE AMOUNT} \times \text{CONVERSION FACTOR}$$

www.inchcalculator.com

DECIBEL TABLE

Voltage or Current Ratio (Equal Impedance)	Power Ratio	← — db — →		Voltage or Current Ratio (Equal Impedance)	Power Ratio
		+	-		
1.000	1.000	0		1.000	1.000
0.989	0.977	0.1		1.012	1.023
0.977	0.955	0.2		1.023	1.047
0.966	0.933	0.3		1.035	1.072
0.955	0.912	0.4		1.047	1.096
0.944	0.891	0.5		1.059	1.122
0.933	0.871	0.6		1.072	1.148
0.923	0.851	0.7		1.084	1.175
0.912	0.832	0.8		1.096	1.202
0.902	0.813	0.9		1.109	1.230
0.891	0.794	1.0		1.122	1.259
0.841	0.708	1.5		1.189	1.413
0.794	0.631	2.0		1.259	1.585
0.750	0.562	2.5		1.334	1.778
0.708	0.501	3.0		1.413	1.995
0.668	0.447	3.5		1.496	2.239
0.631	0.398	4.0		1.585	2.512
0.596	0.355	4.5		1.679	2.818
0.562	0.316	5.0		1.778	3.162
0.531	0.282	5.5		1.884	3.548
0.501	0.251	6.0		1.995	3.981
0.473	0.224	6.5		2.113	4.467
0.447	0.200	7.0		2.239	5.012
0.422	0.178	7.5		2.371	5.623
0.398	0.159	8.0		2.512	6.310
0.376	0.141	8.5		2.661	7.079
0.355	0.126	9.0		2.818	7.943
0.335	0.112	9.5		2.985	8.913
0.316	0.100	10		3.162	10.00
0.282	0.0794	11		3.55	12.6
0.251	0.0631	12		3.98	15.9
0.224	0.0501	13		4.47	20.0
0.200	0.0398	14		5.01	25.1
0.178	0.0316	15		5.62	31.6
0.159	0.0251	16		6.31	39.8
0.141	0.0200	17		7.08	50.1
0.126	0.0159	18		7.94	63.1
0.112	0.0126	19		8.91	79.4
0.100	0.0100	20		10.00	100.0
3.16x10 ⁻¹	10 ⁻¹	30		3.16x10	10 ³
10 ⁻³	10 ⁻⁴	40		10 ³	10 ⁴
3.16x10 ⁻³	10 ⁻⁵	50		3.16x10 ³	10 ⁵
10 ⁻⁵	10 ⁻⁶	60		10 ⁵	10 ⁶
3.16x10 ⁻⁴	10 ⁻⁷	70		3.16x10 ⁴	10 ⁷
10 ⁻⁴	10 ⁻⁸	80		10 ⁴	10 ⁸
3.16x10 ⁻⁵	10 ⁻⁹	90		3.16x10 ⁵	10 ⁹
10 ⁻⁵	10 ⁻¹⁰	100		10 ⁵	10 ¹⁰
3.16x10 ⁻⁶	10 ⁻¹¹	110		3.16x10 ⁶	10 ¹¹
10 ⁻⁶	10 ⁻¹²	120		10 ⁶	10 ¹²





Convert units of angles by entering the value to convert and the from and to units. How to Convert Units of Angles Conversions are performed by using a conversion factor. By knowing the conversion factor, converting between units can become a simple multiplication problem: $S * C = E$ Where S is our starting value, C is our conversion factor, and E is our end converted result. To simply convert from any unit into degrees, for example, from 5 radians, just multiply by the value in the right column in the table below. 5 radians * 57.29578 (degrees / radian) = 286.4789 degrees To convert from degrees back into units in the left column divide by the value in the right column or, multiply by the reciprocal, 1/x. 286.4789 degrees / 57.29578 (degrees / radian) = 5 radians To convert among any units in the left column, say from A to B, you can multiply by the factor for A to convert A into degrees then divide by the factor for B to convert out of degrees. Or, you can find the single factor you need by dividing the A factor by the B factor. For example, to convert from radians to revolutions you would multiply by 57.29578 then divide by 360. Or, multiply by 57.29578/360 = 0.1591549. So, to convert directly from radians to revolutions you multiply by 0.1591549. To understand how to also convert the units follow this example. Say you want to convert from radians to degrees. Since you can multiply anything by 1 and still retain the original value, but in different units, set it up so that radian will cancel out leaving you with degree. Since: 1 degree = 0.01745329 radians, 1 degree / 0.01745329 radians = 1 We can write the conversion as: 1 radian = 1 radian * (1 degree / 0.01745329 radians) = 57.29578 degrees And we now have our factor for conversion from radians to degrees since $1 * 57.29578 = 57.29578$. Note that there are rounding errors in these values. Knowing that 1 radian = 57.29578 degrees we can now find the conversion factor for converting back. Dividing both sides of the equation by 57.29578 we get about 0.01745329 radians = 1 degrees. So, the conversion factor to multiply by to convert from degrees to radians is about 0.01745329. Table of Angular Conversions Units, symbols and conversion values used in angular conversion to degrees Units, symbols and conversion values used in angular conversion to radians References/ Further Reading The National Institute of Standards and Technology (NIST) - The NIST Guide for the use of the International System of Units - Appendix B, subsections B.8 Factors for Units Listed Alphabetically and B.9 Factors for units listed by kind of quantity or field of science. Lide, David R., Daniel (Editor-in-Chief). CRC Handbook of Chemistry and Physics, 89th Edition New York, NY: CRC Press, p. 1-28, 2008. Wikipedia contributors. "Conversion of units" Wikipedia, The Free Encyclopedia. Wikipedia, The Free Encyclopedia, last visited 26 Jun. 2011. Calculators - Trigonometry Calculators :: Degrees to radians converter The following calculator will convert angles between degrees and radians. The calculator will generate a step by step explanations. examples Convert 240° degrees to radians. Convert 385° degrees to radians. Convert 2 radians to degrees. Convert $\frac{3\pi}{4}$ radians to degrees. Search our database of more than 200 calculators 227 505 462 solved problems Degrees and radians are units of angle. A brief introduction to degree and radian measure is as follow: Degrees: • A degree is an angle measurement equal to 1/360 of a circle, Number 360 has 24 divisors. • A degree is the accepted SI unit of an angle for use with the metric system. • A degree can be abbreviated as 'deg'. For example 1 degree can be written as 1 deg. • Protractors are mostly used in measuring the angles in degrees. They are semi-circle or full circle devices with the degree marks allowing users to measure an angle in degrees. Radians: • A radian is the angle from the start and end of the circle or an arc divided by the radius of the circle or arc. • One radian is equal to 180/n , which is approximately 57.29578 deg. There are approximately 6.28318 radians in a circle. • The radian is the SI derived unit for angle in the metric system. • Abbreviation for radian is 'rad'. For example, 2 radian can be written as 2 rad. • Pi radians are equal to 180 degrees: π rad=180 deg • one degree is equal to 0.01745329252 radians: 1 deg =0.01745329252 rad You can control your preferences for how we use cookies to collect and use information while you're on TI websites by adjusting the status of these categories. Category Description Allow Analytics and performance cookies These cookies, including cookies from Google Analytics, allow us to recognize and count the number of visitors on TI sites and see how visitors navigate our sites. This helps us improve the way TI sites work (for example, by making it easier for you to find information on the site). Advertising and marketing cookies These cookies enable interest-based advertising on TI sites and third-party websites using information you make available to us when you interact with our sites. Interest-based ads are displayed to you based on cookies linked to your online activities, such as viewing products on our sites. We may also share this information with third parties for these purposes. These cookies help us tailor advertisements to better match your interests, manage the frequency with which you see an advertisement, and understand the effectiveness of our advertising. Functional cookies These cookies help identify who you are and store your activity and account information in order to deliver enhanced functionality, including a more personalized and relevant experience on our sites. If you do not allow these cookies, some or all of the site features and services may not function properly. Social media cookies These cookies allow identification of users and content connected to online social media, such as Facebook, Twitter and other social media platforms, and help TI improve its social media outreach. Strictly necessary These cookies are necessary for the operation of TI sites or to fulfill your requests (for example, to track what items you have placed into your cart on the TI.com, to access secure areas of the TI site, or to manage your configured cookie preferences). Always On This calculator converts degrees to radians, or radians to degrees. The calculator also calculates complementary and supplementary angles and shows a combined representation of the related angles so that they can be immediately visualized. The calculator automatically converts from degrees to radians when you enter a new value.What are Degrees?When we measure the angle between two lines, that measurement is providing the amount of rotation necessary to make the slope of one line match that of the other. The word degree in its most general usage means "amount" but when measuring an angle, the word degree is a unit of rotation. Degrees in a CircleA full rotation (or a turn) would correspond to a complete circle, or exactly 360 degrees of rotation. If you wonder about the seemingly odd choice of using 360 degrees to represent a full rotation, you can probably blame the Babylonians. Some ancient number systems were based on units like 12 and 60. Examples of how this carried forward into modern life is the 12 months of the calendar and 24 hours in the day (12 hours of day, 12 hours of night). Another example is the choice of 360 as the units of measurement complete circle. 360 factors neatly by both 12 and 60, and you can inscribe six equilateral triangles (which have exactly 60 degrees at each angle) in a circle.What are Radians?While degrees are familiar to most people, for many applications it is more convenient to work in a different unit of angular measurement called radians. To understand the value of a radian, it's useful to remember the formula for the circumference of a circle...Circumference of a CircleThe circumference relates directly to a full rotation, and travelling around the circumference is conceptually similar to rotating a point through 360 degrees around the circle's origin. If we imagine a circle with a radius of one unit (a unit circle) then this path is equivalent to exactly 2 π units. And in fact, those arbitrary circumference units are radians, and there are exactly 2 π radians in a full rotation.Expressing rotation in terms of radians simplifies a number of other trigonometric calculations, but because radians are expressed in terms of pi they may feel less useful in practical applications (for example, setting the angle on a saw blade when you're cutting a peice of wood.) That's where this degrees to radians converter comes into play!Radians in a CircleCircle radians = 2 π radiansThis degrees to radians converter allows you to enter radians either as a decimal value or as a fraction of pi, and it will calculate the alternate radians representation as well as the value in degrees appropriately.How to Convert Degrees to RadiansThere are two simple approaches to converting degrees to radians, one deals with decimal radians and the other with radians expressed as a fraction of pi.Because the number of degrees in a circle is a transcendental number and has an infinite decimal expansion, there is not an exact conversion from degrees to decimal radians. However, a reasonable approximation is to use a decimal constant of sufficient precision for whatever calculation you are trying to perform...Degrees to Radians as a DecimalHowever, by expressing radians as a fraction of pi, you can calculate a precise fraction multiplied by pi. Recall that a full circle (360° of rotation) is exactly 2 π radians, so 180° is π radians. Therefore, one degree is 1/180th of π radians...Degrees to Radians as a Fraction of PiThis fraction turns converting degrees to radians into a simple fraction multiplication and reducing problem. For example, if we wanted to convert 36 degrees to radians the conversion would look like this...Example: Convert 36 Degrees to Radians36° = $\times \frac{\pi}{180}$ = π radiansAny of these methods for converting degrees to radians are similar and based on the idea that degrees are π /180 radians.How to Convert Radians to Degrees Converting radians to degrees is similar, and we can use invert the constants used in degrees to radians conversion...Radians to Degrees1 radian = 57.29577951 degreesDateDescription 06/3/2019Initial version of the Degrees to Radians converter. 01/29/2021Updated to new calculator format.

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