

PowerSearchingWithGoogle.com

Lesson 4.3: Conversions and calculator


[Access Lesson 4.3 slides here](#)

Contents:

Using Google's calculator to do conversions

This is lesson 4.3 and we're going to continue our discussion of accelerators, shortcuts, and tricks by talking about conversions and the calculator. So this is kind of a nice segue because there are lots of things you can do in Google that people don't know about and yet are immensely, immensely handy.

4.3 Conversions / Calculator

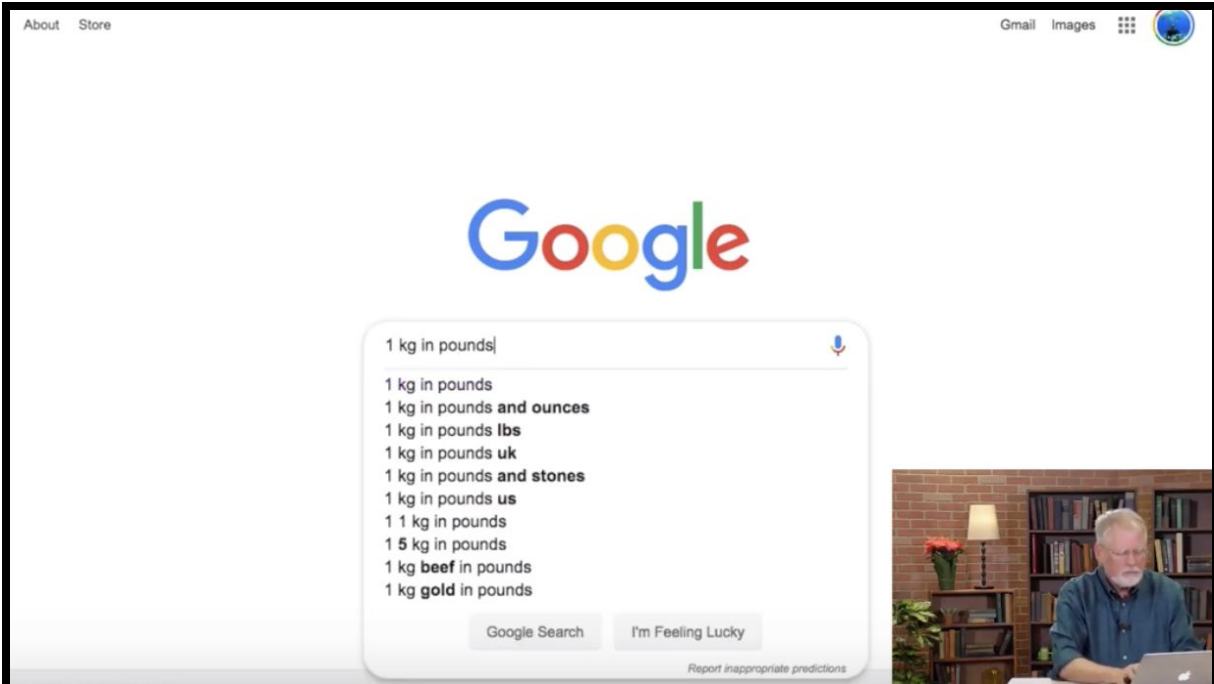


- **Conversions:**
From UNITS to UNITS --- pattern to follow: [*number units* in *units*]

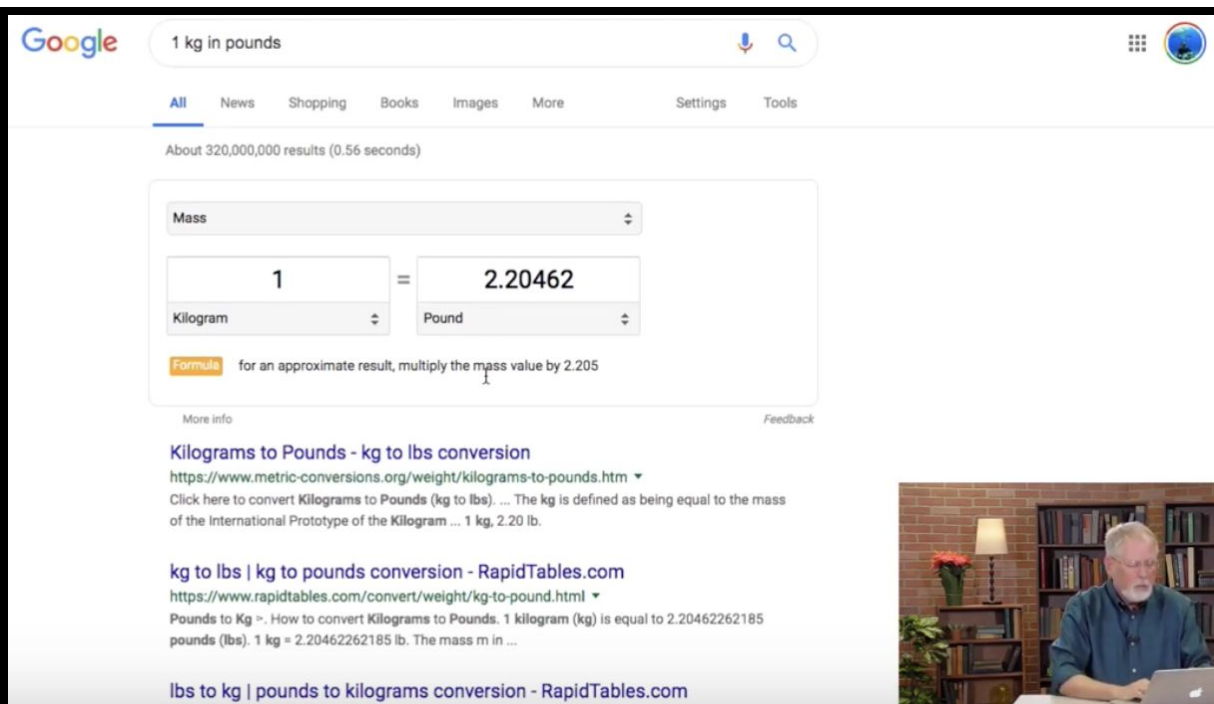
[**212F** in **C**]
[**400 yards** in **miles**]
[**32C** in **F**]
[**23 bushels** in **quarts**]
[**2 inches** in **Angstroms**]
[**2 USD** in **Euros**]

[**23 pounds** in **ml**] *CAUTION: Won't tell you when you're incompatible....*

So as you see here, there are conversions that you can do, so for example Fahrenheit to centigrade, yards to miles and so on. Now there's a few things you have to know about that, the biggest one is, caution it won't tell you if you try to do something dumb. If you try to convert pounds to milliliters it won't warn you about that, but let's actually do some examples here and we'll talk about some of the cautions as we go along. For example, let's look at a conversion from one mass unit to another mass unit.



One kilogram in pounds....



So this makes sense, here you have a nice little calculator where we've given you the option to type in a number. One kilogram is 2.2 pounds. Now what's five kilograms? Oh, it's 11 pounds. You see as I type, it updates the number.

Google 1 kg in pounds

About 320,000,000 results (0.56 seconds)

Mass

5 = 11.0231

Kilogram Pound

Formula for an approximate result, multiply the mass value by 2.205

More info Feedback

Kilograms to Pounds - kg to lbs conversion
<https://www.metric-conversions.org/weight/kilograms-to-pounds.htm>
 Click here to convert Kilograms to Pounds (kg to lbs). ... The kg is defined as being equal to the mass of the International Prototype of the Kilogram ... 1 kg, 2.20 lb.

kg to lbs | kg to pounds conversion - RapidTables.com
<https://www.rapidtables.com/convert/weight/kg-to-pound.html>
 Pounds to Kg >. How to convert Kilograms to Pounds. 1 kilogram (kg) is equal to 2.20462262185 pounds (lbs). 1 kg = 2.20462262185 lb. The mass m in ...

(A small video inset shows a man with a beard and glasses, wearing a blue shirt, sitting at a desk with a lamp and bookshelves in the background.)

Notice also that the units selector is right here:

Google

All News Shopping Books Images More Settings Tools

About 347,000,000 results (0.58 seconds)

Mass

5 = 11.0231

Kilogram Pound

Formula multiply the mass value by 2.205

Feedback

bs conversion
[weight/kilograms-to-pounds.htm](https://www.metric-conversions.org/weight/kilograms-to-pounds.htm)
 ls (kg to lbs). ... The kg is defined as being equal to the mass of
 m ... 1 kg, 2.20 lb.

Click here to change the unit of measurement

Metric ton
 ✓ Kilogram
 Gram
 Milligram
 Microgram
 Imperial ton
 US ton
 Stone
 Pound
 Ounce

I can click here and convert, say from grams, five grams to pounds that makes no sense but I can convert that to ounces, don't ask how many ounces there are in a

pound it doesn't make any sense, but you see you can actually easily convert from one weight measure to another weight measure. Now Google also has a lot of conversions for measures you may not know about, so for example we've all read this book 20,000 Leagues; A.) You have to know 20,000 is a measure of distance and B.) You have to understand that if you translate it to something you understand you will comprehend what's going on here, so I've converted 20,000 leagues, a measure of nautical distance into kilometers.

The screenshot shows a Google search interface. The search bar contains the text "20000 leagues in km". Below the search bar, the results are displayed. A prominent conversion box shows "Length" with a dropdown menu. Inside the box, "20000" is entered in the first field, and "111120" is shown in the second field, separated by an equals sign. Below the fields, "Nautical league" and "Kilometer" are listed with dropdown arrows. A formula box below that states "multiply the length value by 5.556". Below the conversion box, there is a link to "Twenty Thousand Leagues Under the Sea - Wikipedia" with the URL "https://en.wikipedia.org/wiki/Twenty_Thousand_Leagues_Under_the_Sea". Below the link, there is a snippet of text: "Twenty Thousand Leagues Under the Sea: A Tour of the Underwater World is a classic science ... of the Earth. The greatest depth mentioned in the book is four leagues. The book uses metric leagues, which are four kilometres each." Below the snippet, there are tags: "Nautilus (Verne) · Moskstraumen · French submarine Plongeur · Battle of Vigo Bay". At the bottom of the search results, there is a section titled "People also ask" with the question "What does 20000 Leagues Under the Sea mean?". In the bottom right corner of the screenshot, there is a small video thumbnail showing a man with a white beard and glasses, wearing a blue shirt, sitting in front of a bookshelf.


So in this case it's a hundred and eleven thousand kilometers. Okay now that's interesting because what is the diameter of the earth in kilometers? This is another one of those questions that you can ask and you'll find out quickly that the diameter of the earth is twelve thousand kilometers in diameter.

Google

About 51,800,000 results (0.71 seconds)

Earth / Diameter

12,742 km



[Feedback](#)

Earth
Planet


Earth is the third planet from the Sun and the only astronomical object known to harbor life. According to radiometric dating and other sources of evidence, Earth formed over 4.5 billion years ago. Earth's gravity interacts with other objects in space, especially the Sun and the Moon, Earth's only natural satellite. [Wikipedia](#)

How Big Is Earth? - Radius, Diameter and Circumference Explained ...
<https://www.space.com/17638-how-big-is-earth.html>
 Sep 15, 2017 - However, Earth is not quite a sphere. The planet's rotation causes it to bulge at the equator. Earth's polar radius is 3,950 miles (6,356 km) – a difference of 13 miles (22 km). Using those measurements, the equatorial circumference of Earth is about 24,901 miles (40,075 km).

What is the Diameter of Earth? - Universe Today
<https://www.universetoday.com/15055/diameter-of-earth/>
 Jun 14, 2008 - Because of this, the diameter of the Earth at the equator is about 43 kilometers (27 mi)

View on Maps:

Did you know?



So what does the title of that book mean? I leave it to you. It's basically not what you think. It's not the depth to which the Nautilus goes, but let's go back to the conversions. I can convert for example, we talked about distance, we talked about weight, we can talk about units you may have read about but not understand, so cubits, let's do one cubit in meters.

Google

About 150,000 results (0.67 seconds)

Length

1 = **0.4572**

Cubit = Meter


Formula for an approximate result, divide the length value by 2.187

[More info](#) [Feedback](#)

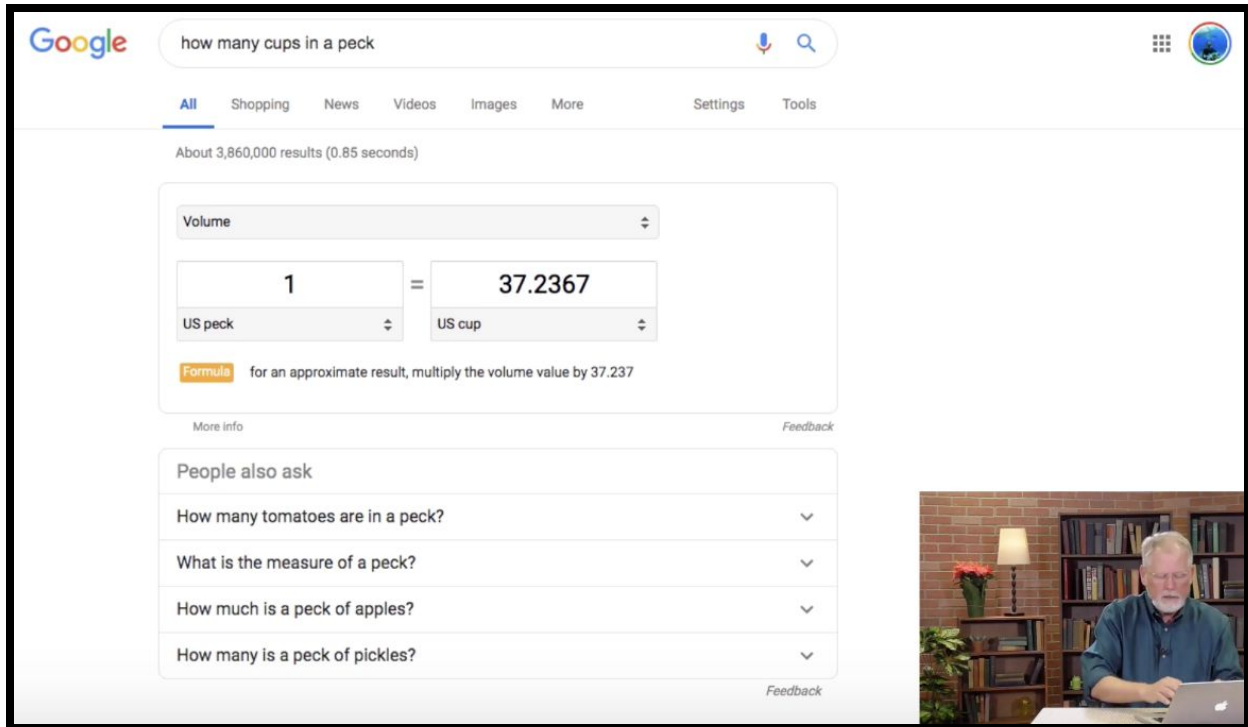
How Long Was the Original Cubit? | Answers in Genesis
<https://answersingenesis.org/noahs-ark/how-long-was-the-original-cubit/>
 Apr 1, 2007 - While the Bible tells us that the length of Noah's Ark was 300 cubits, its width ... But when Noah came off the Ark, only one cubit measurement ...

Cubits to Meters | Kyle's Converter
www.kylesconverter.com > Length > Cubits
 1 Cubit: Distance from fingers to elbow, estimated at 18 inches for a Biblical cubit, other cubits may vary. 1 Cubit = 45.72 centimeters = 0.4572 meters.

Cubit. Conversion Chart / Historical Length Units Converter, Biblical ...
<https://www.convert-me.com> > ... > Historical Length Units Converter > Biblical



So that's an archaic measure that you might read about in old literature. One cubit is roughly the distance of your arm from here to here that's about 0.4 meters. So you see you could actually look for things that you do not otherwise understand. We can do time, we can do temperature, we can do measures of weight or distance or whatever and I can ask questions like how many cups in a peck? Again a peck is an old measure, but we find out it's 37 cups.



The screenshot shows a Google search interface with the query "how many cups in a peck". The search results indicate approximately 3,860,000 results found in 0.85 seconds. A unit conversion tool is displayed, showing a volume of 1 US peck is equal to 37.2367 US cups. Below the conversion, a formula note states: "for an approximate result, multiply the volume value by 37.237". Underneath, a section titled "People also ask" lists four related questions: "How many tomatoes are in a peck?", "What is the measure of a peck?", "How much is a peck of apples?", and "How many is a peck of pickles?". Each question has a downward arrow indicating more information is available. The bottom right corner of the screenshot shows a video thumbnail of a man with a white beard and glasses, wearing a blue shirt, sitting at a desk with a laptop and a bookshelf in the background.

Now let me caution you, if I ask for something like 100 milliliters in say pounds, what is that? It's going to say here that doesn't make any sense, so let me tell you how much a pound of water weighs, so we see here it's not telling you that it's 2.4 or whatever because there's no conversion from milliliters of volume measurement to pounds a weight measurement, except in the context of water or oil or whatever, but here we've got a result that shows you how to convert 100 milliliters into pounds or one pound into milliliters and so on.

Google 100 ml in pounds

About 46,700,000 results (0.61 seconds)

Milliliters to Pounds

conversion result for two water volume vs. weight units:

| From unit Symbol | Equals Result | To unit Symbol |
|-------------------------|---------------|-------------------------|
| 1 pound of water lb wt. | = 453.59 | milliliters of water ml |


[Convert pounds of water to milliliters of water | water volume vs. weight ...](#)
[convert-to.com/.../water.../convert-pound-lb-of-water-weight-to-ml-of-water-volume.ht...](#)

Search for: **Milliliters to Pounds**

About this result Feedback

People also ask

- How many milliliters are in a pound?
- How much does 100 ml of water weigh?
- How many pounds is 1000 ml of water?



Okay, so notice that it does not tell you that's a silly question, don't ask me that question and of course if you're trying to do work in say science or technical issues I might want to say what is a thousand angstroms in millimeters so that makes sense and this is now part of the metric system you can see the movement of decimal place.

Google 1000 Angstrom in mm

About 1,130,000 results (0.55 seconds)

Length

1000 = 0.0001


Angstrom Millimeter

Formula divide the length value by 1e+7

More info Feedback

[Angstroms to Millimeters | Kyle's Converter](#)
[www.kylesconverter.com > Length > Angstroms](#)
 Expressed in the SI base unit meters 1 Ångström is equal to 1×10^{-10} meters. $1 \text{ Å} = 0.0000000001 \text{ m}$. 1 Millimeter: $1/1000^{\text{th}}$ of a meter. The prefix milli indicates ...

[Convert angstrom to mm - Conversion of Measurement Units](#)
[https://www.convertunits.com/from/angstrom/to/mm](#)
 The answer is 10000000. We assume you are converting between angstrom and millimetre. You can view more details on each measurement unit: angstrom or mm The SI base unit for length is the metre. 1 metre is equal to 10000000000 angstrom, or 1000 mm.



So I want to point this out to you and I'll point out one other area; I wanted to highlight here you can do simple calculations for four plus five divided by three so that makes sense, but now Google realizes you're trying to do some math so it gives you a whole calculator here.

The screenshot shows a Google search for the expression $4+5/3$. The search bar at the top contains the text $4+5/3$. Below the search bar, the Google logo is on the left, and navigation links for All, Shopping, News, Maps, Images, More, Settings, and Tools are in the center. The search results show "About 737,000,000 results (0.67 seconds)". A calculator interface is displayed, showing the expression $4 + (5 / 3) =$ and the result 5.66666666667 . The calculator has a grid of buttons including mathematical functions like Rad, x!, sin, ln, cos, log, tan, e, and Ans, as well as basic arithmetic operators like +, -, *, and /. Below the calculator, a link for "Mathway | Evaluate $(4/5)^{-3}$ " is shown, along with a URL and a brief description of the tool's capabilities.

Notice when I did my query here: four plus five divided by three, it implicitly grouped it according to the rules of math or the precedence operations of math, so in this case you want to be aware again of what it is you're asking, which is a generally good heuristic for all of these kinds of conversions and simple math operations. Now that you know how to do this go ahead and go to the next activity. Enjoy the conversions, it's immensely useful especially when you're traveling internationally and you want to convert local unit of monetary currency to whatever currency you're familiar with say 3 pounds British currency to U.S. dollars. Go ahead and explore that.