



Google's calculator is a powerful tool for all sorts of functions. Use the calculator to solve the following problems. Email me your answers to **rhp@denovodental.com**. The subject line is **Compapp 15-2 lastname**. Feel free to use the reference guide below (from the Google website).

To access the Google calculator, simply go to Google.com and type your query into the search box. Help in formatting your query can be found below.

PROBLEMS

1. $9,444 + 2,666 - 456 = ?$
2. $3,477 * 4,993 = ?$
3. $47/3 =$
4. Find the remainder of the division problem $142 / 9$
5. Find the 7th root of 7,788,450 (Answer = 1 place past decimal OK).
6. Find the square root of 8,281.
7. Find the value of 6 factorial.
8. Convert 1.9 miles to kilometers
9. How many light years is 8 trillion miles?
10. Convert 378 ft/sec to miles/hour.
11. Convert 200 degrees F to degrees Celsius.
12. The answer to life, the universe and everything.
13. Convert 27 gallons to teaspoons.
14. Convert 78 to baker's dozen
15. Convert 1 decade into seconds.

Reference

Google's calculator tries to understand the problem you are attempting to solve without requiring you to use special syntax. However, it may be helpful to know the most direct way to pose a question to get the best results. Listed below are a few suggestions for the most common type of expressions (and a few more esoteric ones).



Most operators come between the two numbers they combine, such as the plus sign in the expression **1+1**.

Operator	Function	Example
+	addition	3+44
-	subtraction	13-5
*	multiplication	7*8
/	division	12/3
^	exponentiation (raise to a power of)	8^2
%	modulo (finds the remainder after division)	8%7
choose	X choose Y determines the number of ways of choosing a set of Y elements from a set of X elements	18 choose 4
th root of	calculates the nth root of a number	5th root of 32
% of	X % of Y computes X percent of Y	20% of 150

Some operators work on only one number and should come before that number. In these cases, it often helps to put the number in parentheses.

Operator	Function	Example
sqrt	square root	sqrt(9)
sin, cos, etc.	trigonometric functions (numbers are assumed to be radians)	sin(pi/3) tan(45 degrees)
ln	logarithm base e	ln(17)
log	logarithm base 10	log(1,000)



A few operators come after the number.

Operator	Function	Example
!	factorial	5!

Other good things to know

You can force the calculator to try and evaluate an expression by putting an equals sign (=) after it. This only works if the expression is mathematically resolvable. For example, **1-800-555-1234=** will return a result, but **1/0=** will not.

Parentheses can be used to enclose the parts of your expression that you want evaluated first. For example, **(1+2)*3** causes the addition to happen before the multiplication.

The **in** operator is used to specify what units you want used to express the answer. Put the word **in** followed by the name of a unit at the end of your expression. This works well for unit conversions such as: **5 kilometers in miles**. You can use hexadecimal, octal and binary numbers. Prefix hexadecimal numbers with **0x**, octal numbers with **0o** and binary numbers with **0b**. For example: **0x7f + 0b10010101**.

The calculator understands many different units, as well as many physical and mathematical constants. These can be used in your expression. Many of these constants and units have both long and short names. You can use either name in most cases. For example, **km** and **kilometer** both work, as do **c** and **the speed of light**.