

How can I calculate the square root and cube root in Google Sheets?

Authored by
stats writer

June 30, 2024

RECOMMENDED CITATION

stats writer (2024). *How can I calculate the square root and cube root in Google Sheets?*. PSYCHOLOGICAL SCALES. Retrieved from <https://scales.arabpsychology.com/?p=161692>

Google Sheets is a powerful tool that provides users with the ability to perform various mathematical calculations, including finding the square root and cube root of a number. To calculate the square root or cube root in Google Sheets, the user can use the built-in functions, such as "SQRT" for finding the square root and "CBRT" for finding the cube root. These functions require the input of the number for which the root needs to be calculated. Google Sheets then performs the calculation and displays the result in the desired cell. This feature makes it convenient and efficient for users to perform complex mathematical operations within their spreadsheets.

Calculate Square Root & Cube Root in Google Sheets

You can use the following formula to calculate the square root of a value in Google Sheets:

=SQRT(A1)

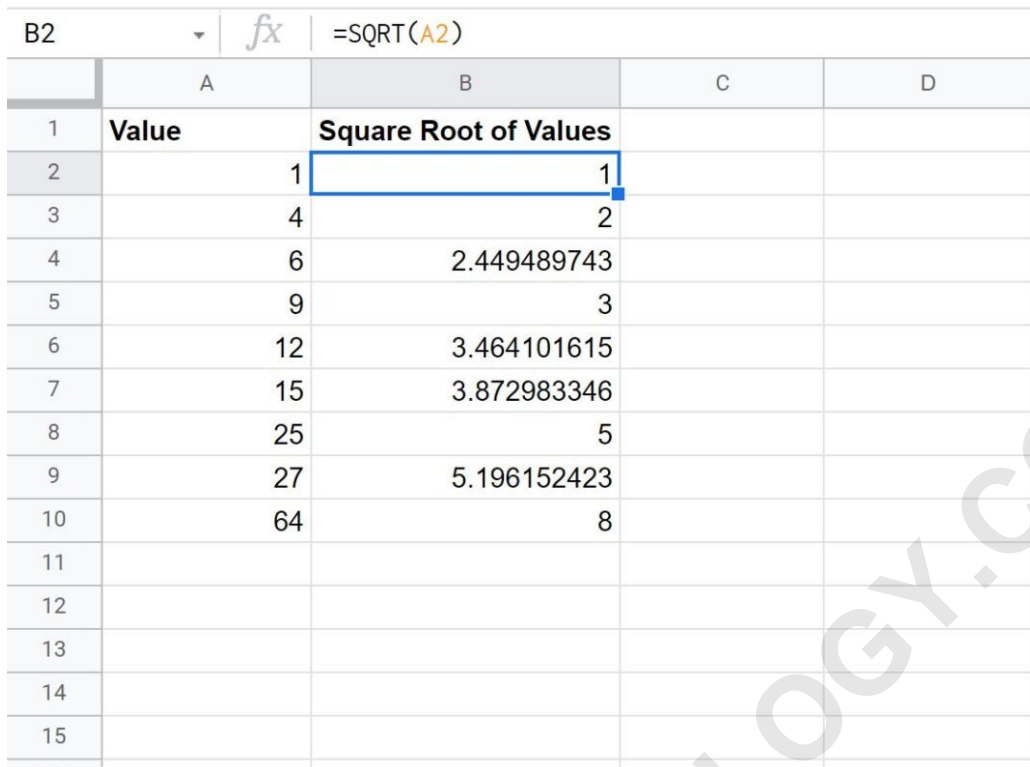
And you can use the following formula to calculate the cube root of a value in Google Sheets:

=A1^(1/3)

The following examples show how to use each formula in practice.

Example 1: Calculate Square Root in Google Sheets

The following screenshot shows how to calculate the square root of values in Google Sheets:



The screenshot shows a Google Sheets spreadsheet with the following data:

	A	B	C	D
1	Value	Square Root of Values		
2	1	1		
3	4	2		
4	6	2.449489743		
5	9	3		
6	12	3.464101615		
7	15	3.872983346		
8	25	5		
9	27	5.196152423		
10	64	8		
11				
12				
13				
14				
15				

The formula bar at the top shows the formula `=SQRT(A2)` entered into cell B2.

Note that we typed the following formula into cell B2:

`=SQRT(A2)`

We then copy and paste this formula down to every cell in column B.

Example 2: Calculate Cube Root in Google Sheets

The following screenshot shows how to calculate the cube root of values in Google Sheets:

	A	B	C	D
1	Value	Cube Root of Values		
2	1	1		
3	4	1.587401052		
4	6	1.817120593		
5	9	2.080083823		
6	12	2.289428485		
7	15	2.466212074		
8	25	2.924017738		
9	27	3		
10	64	4		
11				
12				
13				
14				
15				

Note that we typed the following formula into cell B2:

$=A2^{(1/3)}$

We then copy and paste this formula down to every cell in column B.

Example 3: Calculate Nth Root in Google Sheets

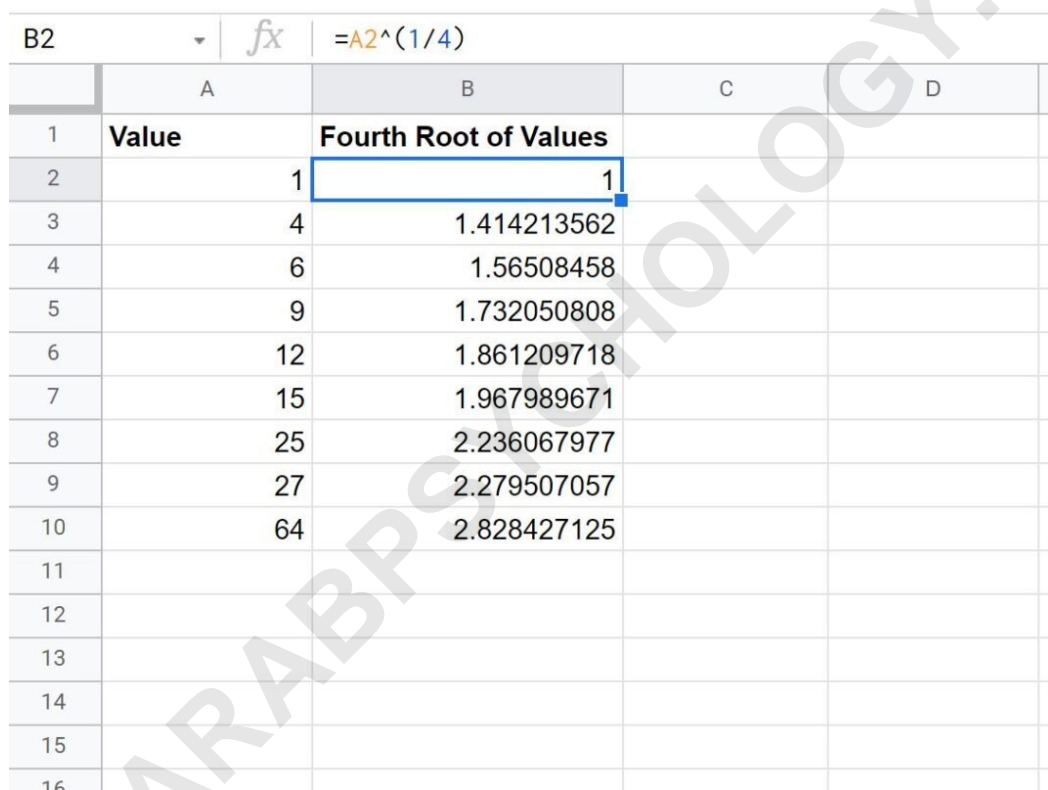
We can use the following generic formula to calculate the nth root of a value in Google Sheets:

$=A2^{(1/n)}$

For example, we could use the following formula to calculate the fourth root of a value:

=A2^(1/4)

The following screenshot shows how to calculate the fourth root of values in Google Sheets:



	A	B	C	D
1	Value	Fourth Root of Values		
2	1	1		
3	4	1.414213562		
4	6	1.56508458		
5	9	1.732050808		
6	12	1.861209718		
7	15	1.967989671		
8	25	2.236067977		
9	27	2.279507057		
10	64	2.828427125		
11				
12				
13				
14				
15				
16				

Note that we typed the following formula into cell B2:

=A2^(1/4)

We then copy and paste this formula down to every cell

in column B.

Additional Resources

The following tutorials explain how to perform other common tasks in Google Sheets:

ARABPSYCHOLOGY.COM