

# How can I quickly convert time to decimal in Google Sheets?

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## RECOMMENDED CITATION

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The process of converting time to decimal in Google Sheets can be done quickly and efficiently by utilizing the built-in TIMEVALUE function. This function converts a time value in the standard "hh:mm:ss" format to a decimal representation, where 1 represents a full day. To use this function, simply enter the time value in a cell and then use the TIMEVALUE function to convert it to decimal. This allows for easy and accurate calculations of time in decimal format, making it a convenient tool for various time-related tasks in Google Sheets.

## Google Sheets: Quickly Convert Time to Decimal

You can use the following formula to convert a time to a decimal in Google Sheets:

**=HOUR(B2)+(MINUTE(B2)/60)+(SECOND(B2)/3600)**

This particular formula converts the time in cell B2 to a decimal.

For example, if the time is 4:19:34 then the formula will convert this to 4.3261 so that the time is represented as 4.3261 hours.

The following example shows how to use this formula in practice.

### Example: Convert Time to Decimal in Google Sheets

Suppose we have the following dataset in Google Sheets that shows the number of hours, minutes, and

**seconds it took various athletes to finish a competition:**

	A	B	C	D
1	<b>Athlete</b>	<b>Duration</b>		
2	Andy	4:13:00		
3	Bob	13:30:15		
4	Chad	2:15:00		
5	Doug	4:19:34		
6	Eric	20:34:13		
7	Frank	20:00		
8	George	5:05		
9	Henry	9:15		
10	Isaiah	10:12		
11	John	3:22:00		
12				
13				
14				
15				
16				
17				
18				
19				
20				

**We can use the following formula to convert the durations into a decimal format:**

**=HOUR(B2)+(MINUTE(B2)/60)+(SECOND(B2)/3600)**

**We will type this formula into cell C2 and then click and drag the formula down to each remaining cell in column C:**

C2  $\text{fx}$  =HOUR(B2)+(MINUTE(B2)/60) + (SECOND(B2)/3600)

	A	B	C	D
1	<b>Athlete</b>	<b>Duration</b>	<b>Decimal</b>	
2	Andy	4:13:00	4.216666667	
3	Bob	13:30:15	13.50416667	
4	Chad	2:15:00	2.25	
5	Doug	4:19:34	4.326111111	
6	Eric	20:34:13	20.57027778	
7	Frank	20:00	20	
8	George	5:05	5.083611111	
9	Henry	9:15	9.250555556	
10	Isaiah	10:12	10.20416667	
11	John	3:22:00	3.366666667	
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The new **Decimal** column displays the time in the **Duration** column as a decimal.

**For example:**

A duration of 4 hours, 13 minutes, and 0 seconds is converted to 4.2167 hours. A duration of 13 hours, 30 minutes, and 15 seconds is converted to 13.5041 hours. A duration of 2 hours, 15 minutes, and 0 seconds is converted to 2.25 hours.

**And so on.**

**If you would instead like to display the durations in terms of number of days, you can divide the entire formula by 24:**

**`=(HOUR(B2)+(MINUTE(B2)/60)+(SECOND(B2)/3600)) / 24`**

**The following screenshot shows how to use this formula in practice:**

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C2  $\text{fx}$   $\text{=(HOUR(B2)+(MINUTE(B2)/60) + (SECOND(B2)/3600))/24}$

	A	B	C	D	E
1	<b>Athlete</b>	<b>Duration</b>	<b>Decimal</b>		
2	Andy	4:13:00	0.1756944444		
3	Bob	13:30:15	0.5626736111		
4	Chad	2:15:00	0.09375		
5	Doug	4:19:34	0.1802546296		
6	Eric	20:34:13	0.8570949074		
7	Frank	20:00	0.8333333333		
8	George	5:05	0.2118171296		
9	Henry	9:15	0.3854398148		
10	Isaiah	10:12	0.4251736111		
11	John	3:22:00	0.1402777778		
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21					

The new Decimal column displays the time in the Duration column as a number of days.

For example:

A duration of 4 hours, 13 minutes, and 0 seconds is converted to .1756 days. A duration of 13 hours, 30 minutes, and 15 seconds is converted to .5626 days. A duration of 2 hours, 15 minutes, and 0 seconds is

**converted to .09375 days.**

**And so on.**

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