

How can I convert time into decimals in Excel?

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To convert time into decimals in Excel, you can use the following formula: $(\text{hours} \times 60 + \text{minutes}) / 60$. This will give you the time in decimal format, where one hour is represented as 1.0. For example, if you have a time of 2 hours and 30 minutes, the formula would be $(2 \times 60 + 30) / 60$, which would give you a result of 2.5. This method is useful for calculating work hours or tracking time in a more precise manner. It can also be used for converting time values into a format that can be used for further calculations or analysis in Excel. By following this formula, you can easily convert time into decimals in Excel for efficient time management and data analysis.

Convert Time into Decimals in Excel (With Examples)

You can use the following formulas to convert a time into a decimal value in Excel:

- 1. Convert Time to Number of Hours: Multiply original time by 24 (the number of hours in a day)**
- 2. Convert Time to Number of Minutes: Multiply original time by 1440 (the number of minutes in a day)**
- 3. Convert Time to Number of Seconds: Multiply original time by 86400 (the number of seconds in a day)**

The following example shows how to use each of these formulas in practice.

Example: Convert Time into Decimals in Excel

Suppose we have the following list of times in Excel:

	A	B	C	D	E	F
1	Time					
2	2:30					
3	4:00					
4	8:45					
5	9:00:15					
6	10:15:40					
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						

We can use the following formulas to convert each time into a decimal that represents the total hours, minutes, and seconds:

	A	B	C	D	E	F
1	Time	Hours	Minutes	Seconds		
2	2:30	2.5	150	9000		
3	4:00	4	240	14400		
4	8:45	8.75	525	31500		
5	9:00:15	9.004167	540.25	32415		
6	10:15:40	10.26111	615.6667	36940		
7		=A2*24	=A2*1440	=A2*86400		
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						

Note: Make sure that the Hours, Minutes, and Seconds columns are all formatted as either General or Number in order for the decimals to show up correctly.

Here's how to interpret the output:

The time 2:30 is equal to 2.5 total hours. The time 2:30 is equal to 150 total minutes. The time 2:30 is equal to 9,000 total seconds.

And so on.

If you'd only like the integer values then you can wrap

each formula in the INT() function:

	A	B	C	D	E
1	Time	Hours	Minutes	Seconds	
2	2:30	2	150	9000	
3	4:00	4	240	14400	
4	8:45	8	525	31500	
5	9:00:15	9	540	32415	
6	10:15:40	10	615	36940	
7		=INT(A2*24)	=INT(A2*1440)	=INT(A2*86400)	
8					
9					
10					
11					
12					
13					
14					
15					

Here's how to interpret the output:

The time 10:15:40 contains 10 whole hours. The time 10:15:40 contains 615 whole minutes. The time 10:15:40 contains 36,940 whole seconds.

And so on.

Additional Resources

The following tutorials explain how to perform other common operations in Excel: