

Day of the Year in Excel

An easy formula that returns the day of the year for a given date. There's no built-in function in Excel that can do this.

1. To get the year of a date, use the YEAR function.

B1	A	B	C	D	E	F	G	H	I
	X	✓	f _x	=YEAR(A1)					
1	6/23/2024	2024							

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Which of these financial services would you consider choosing? (select all that apply)

H&R Block

FreeTaxUSA

TaxAct

TurboTax

None of the above

Done

2. Use the DATE function below to return January 1, 2024. The DATE function accepts three arguments: year, month and day.

B1	A	B	C	D	E	F	G	H	I
	X	✓	f _x	=DATE(YEAR(A1),1,1)					
1	6/23/2024	1/1/2024							

3. The formula below returns the day of the year.

B1	A	B	C	D	E	F	G	H	I
	X	✓	f _x	=A1-DATE(YEAR(A1),1,1)+1					
1	6/23/2024	175							

Explanation: dates and times are stored as numbers in Excel and count the number of days since January 0, 1900. June 23, 2024 is the same as 45466. January 1, 2024 is the same as 45292. Subtracting these numbers and adding 1 gives the day of the year. $45466 - 45292 + 1 = 174 + 1 = 175$.

4. 2024 is a leap year. A leap year has 366 days. December 31st is the last day of the year. We can check this.

B1		⋮	X	✓	f _x	=A1-DATE(YEAR(A1),1,1)+1				
A	B	C	D	E	F	G	H	I		
1	12/31/2024	366								
2										

5. Bonus. The formula below calculates the number of days in a year.

B1		⋮	X	✓	f _x	=DATE(A1,12,31)-DATE(A1,1,1)+1				
A	B	C	D	E	F	G	H	I		
1	2018	365								
2	2019	365								
3	2020	366	⬅							
4	2021	365								
5	2022	365								
6	2023	365								
7	2024	366	⬅							
8	2025	365								
9	2026	365								
10	2027	365								
11	2028	366	⬅							
12	2029	365								
13	2030	365								
14	2031	365								
15	2032	366	⬅							
16										

Conclusion: 2020, 2024, 2028 and 2032 are leap years.

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