

The screenshot shows the Excel formula bar with the formula `=A1-DATE(YEAR(A1),1,1)+1` entered in cell B1. The formula calculates the date one day after the first day of the year of the date in A1. The spreadsheet shows the date 6/23/2024 in cell A1 and the result 175 in cell B1.

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.

<div><div>B1</div><div>✕ ✓ <i>f_x</i></div><div>=A1-DATE(YEAR(A1),1,1)+1</div></div>										
	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		✕ ✓ <i>f_x</i>		=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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