

How can I create a Percent Frequency Distribution in Excel?

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Creating a Percent Frequency Distribution in Excel involves organizing and analyzing data to determine the frequency of a particular value or category in a data set. This can be achieved by using the built-in PivotTable feature in Excel, which allows you to summarize and count data while also calculating the percentage of each value or category. By following a few simple steps, you can easily create a Percent Frequency Distribution in Excel to effectively visualize and understand your data.

Create a Percent Frequency Distribution in Excel

A percent frequency distribution can be used to understand what percentage of a distribution is composed of certain values.

The following step-by-step example shows how to create a percent frequency distribution in Excel.

Step 1: Create the Data

First, let's create a dataset that contains information about 20 different basketball players:

	A	B	C	D	E	F	G
1	Team	Points					
2	A	12					
3	A	19					
4	B	28					
5	A	21					
6	A	23					
7	B	15					
8	B	7					
9	C	12					
10	A	19					
11	D	11					
12	A	10					
13	B	6					
14	D	14					
15	C	22					
16	C	32					
17	D	35					
18	D	19					
19	A	14					
20	B	20					
21	D	22					
22							
23							
24							
25							

Step 2: Calculate Frequencies

Next, we'll use the **UNIQUE()** function to produce an array of unique team values in column A:

The image shows an Excel spreadsheet with the following data:

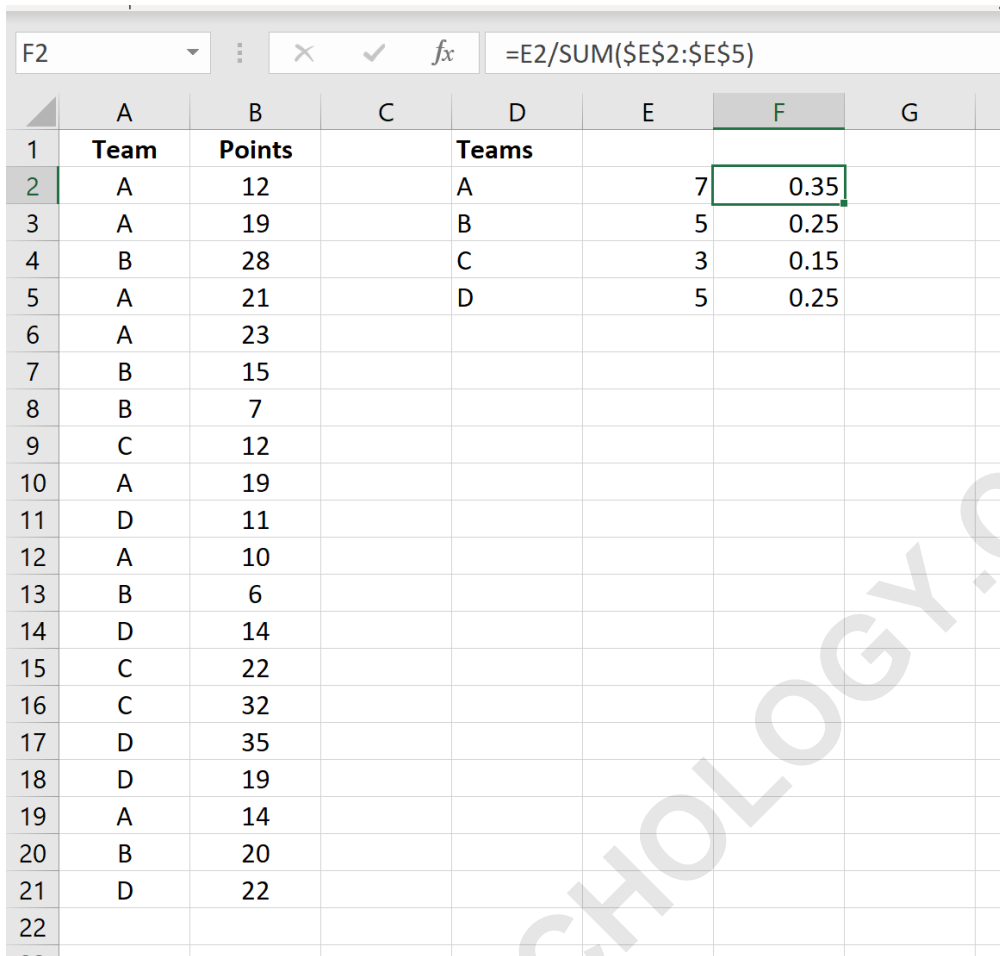
	A	B	C	D	E	F	G
1	Team	Points		Teams			
2	A	12		A			
3	A	19		B			
4	B	28		C			
5	A	21		D			
6	A	23					
7	B	15					
8	B	7					
9	C	12					
10	A	19					
11	D	11					
12	A	10					
13	B	6					
14	D	14					
15	C	22					
16	C	32					
17	D	35					
18	D	19					
19	A	14					
20	B	20					
21	D	22					
22							
23							

Next, we'll use the COUNTIF() function to count the number of times each team appears:

	A	B	C	D	E	F	G
1	Team	Points		Teams			
2	A	12		A	7		
3	A	19		B	5		
4	B	28		C	3		
5	A	21		D	5		
6	A	23					
7	B	15					
8	B	7					
9	C	12					
10	A	19					
11	D	11					
12	A	10					
13	B	6					
14	D	14					
15	C	22					
16	C	32					
17	D	35					
18	D	19					
19	A	14					
20	B	20					
21	D	22					
22							
23							

Step 3: Convert Frequencies to Percentages

Next, we'll convert each frequency to a percentage by dividing each individual frequency by the sum of the frequencies:

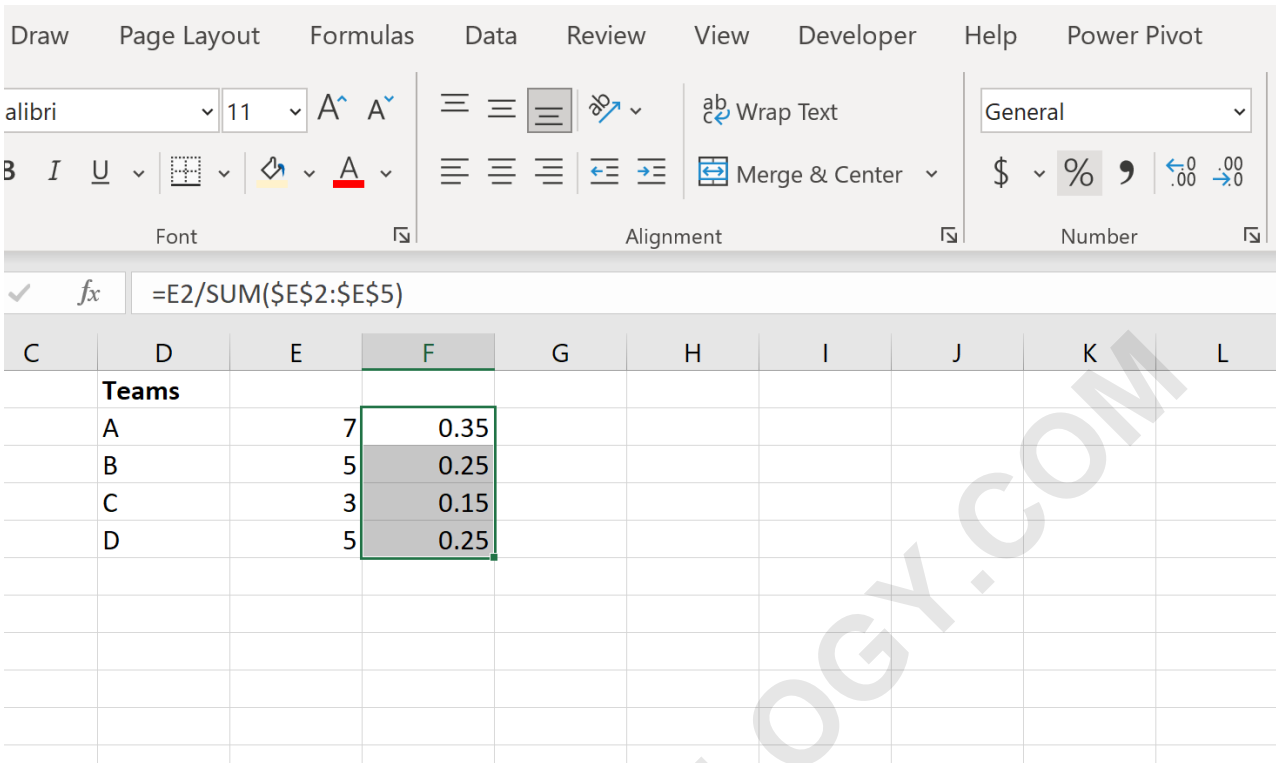


The screenshot shows an Excel spreadsheet with the following data:

	A	B	C	D	E	F	G
1	Team	Points		Teams			
2	A	12		A	7	0.35	
3	A	19		B	5	0.25	
4	B	28		C	3	0.15	
5	A	21		D	5	0.25	
6	A	23					
7	B	15					
8	B	7					
9	C	12					
10	A	19					
11	D	11					
12	A	10					
13	B	6					
14	D	14					
15	C	22					
16	C	32					
17	D	35					
18	D	19					
19	A	14					
20	B	20					
21	D	22					
22							

The formula bar shows the formula: $=E2/SUM(\$E\$2:\$E\$5)$

Next, we'll highlight each of the values in column F and click the percentage (%) icon in the Number group along the top ribbon:



Each value will automatically be displayed as a percentage:

C	D	E	F	G
	Teams			
	A	7	35%	
	B	5	25%	
	C	3	15%	
	D	5	25%	

35% of all players belong to team A 25% of all players

belong to team B 15% of all players belong to team C 25% of all players belong to team D

Note that the percentages add up to 100%.

The following tutorials offer additional information on how to calculate frequencies in Excel:

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