

Instructions for Randomly Selecting Names and Counting Frequencies in Google Sheets

Step-by-Step Guide

1. Prepare Your List of Names:

- Open Google Sheets and ensure you are signed in to your Google account.
- Enter your list of names in Column A. For example, enter the names in cells A2 to A21.
- Add a header for Column A, such as "Names".

Example:

	A	B
1	Names	
2	Adam	
3	Bob	
4	Charlie	
5	David	
6	Edgar	
7	Frank	
8	George	
9	Harold	
10	Isaac	
11	John	
12	Kevin	
13	Larry	
14	Matthew	
15	Nick	
16	Oscar	
17	Peter	
18	Quincy	
19	Reginald	
20	Stewart	
21	Todd	

2. Generate a Random Name Selection:

- In another cell where you want the random name to appear, for example, B1, enter the header "Random Name".
- In cell E2, enter the following formula:
`=INDEX(A$2:A$21, RANDBETWEEN(1, COUNTA(A$2:A$21)))`

This formula works as follows:

- `RANDBETWEEN(1, COUNTA(A\$2:A\$21))` generates a random number between 1 and the total number of names in the list.
- `INDEX(A\$2:A\$21, ...)` selects the name from the list based on the randomly generated number.

3. Refresh the Random Selection:

- Every time you make a change in the spreadsheet or press Enter, the `RANDBETWEEN` function will recalculate, potentially changing the randomly selected name.
- If you want to keep the selected name static, copy cell E2 and paste it as values (right-click on cell E2 -> Copy -> Right-click on the same cell -> Paste special -> Values only).

4. Generate Multiple Random Selections:

- Create 100 random selections by using the `RANDBETWEEN` and `INDEX` functions.
- Drag the formula down from cell B2 to cell B101 to generate 100 random selections.

5. Count the Frequency of Each Name:

- In column B, create a header "Frequency".
- In cell B2, enter the following formula to count the occurrences of the name in cell A2:
=COUNTIF(\$E\$2:\$E\$101, A2)
- Drag the formula down from cell C2 to cell C21 to count the frequency of each name.

Example in Google Sheets

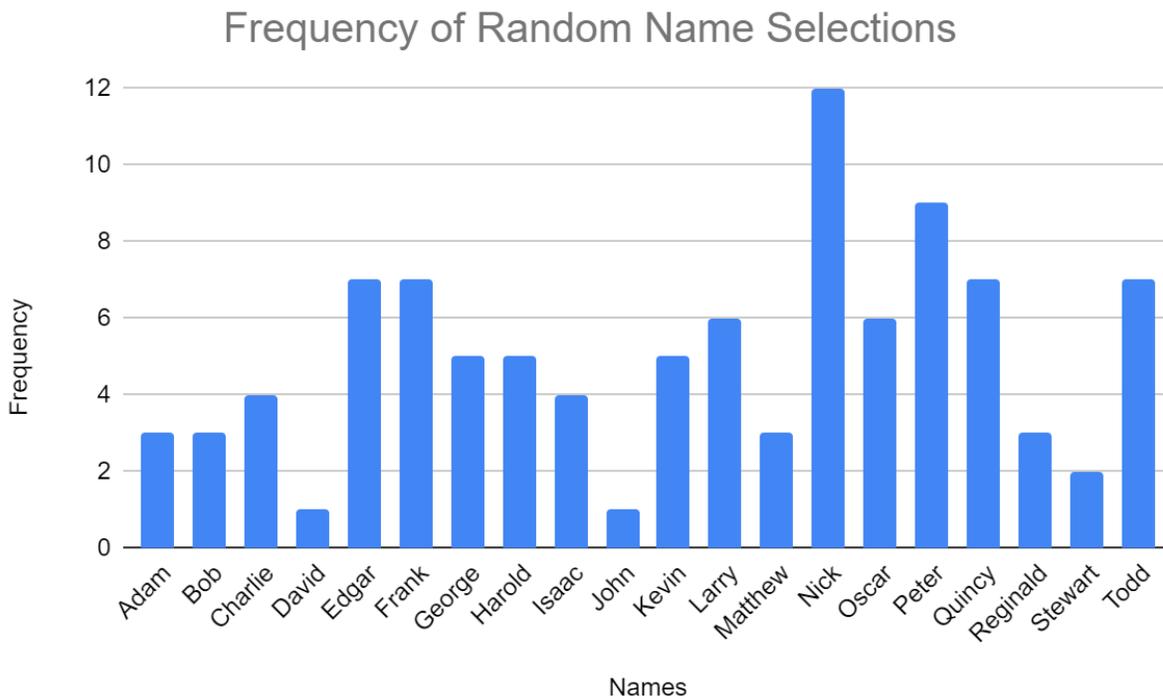
B2 | *fx* =COUNTIF(\$E\$2:\$E\$101, A2)

	A	B	C	D
1	Names	Frequency		
2	Adam	9		
3	Bob	2		
4	Charlie	6		
5	David	6		
6	Edgar	6		
7	Frank	6		
8	George	6		
9	Harold	3		
10	Isaac	2		
11	John	4		
12	Kevin	4		
13	Larry	4		
14	Matthew	8		
15	Nick	4		
16	Oscar	7		
17	Peter	7		
18	Quincy	4		
19	Reginald	4		
20	Stewart	3		
21	Todd	5		

6. Create a Frequency Bar Chart:

- Highlight the range A1:B21 to select your data.
- Click on "Insert" in the top menu and select "Chart".
- In the Chart Editor on the right, choose "Bar chart" under the "Chart type" section.
- Customize the chart as needed (e.g., title, axis labels).
 - Chart Type: Bar Chart
 - Chart Title: Frequency of Random Name Selections
 - Horizontal Axis: Names
 - Vertical Axis: Frequency

Example Bar Chart Configuration



Note: This instructional handout can be modified at Step 4 to generate any number of random selections over the given list. For example, if you want to generate 200 random selections, adjust the drag down step from cell B2 to cell B201 and update the COUNTIF formula to count occurrences within the range B2 to B201. Further details can be provided by the instructor.