



2. What is the experimental probability of having a boy?
3. What is the experimental probability of having a girl or a boy?
4. What is the experimental probability of having a girl and a boy?
5. What is the experimental probability of having a girl then having a boy?
6. What is the experimental probability of having 5 girls and no boys?
7. What is the experimental probability of at least one girl if a woman has 3 children?

Gather the data for the entire class:

Number of boys: \_\_\_\_\_

Number of girls: \_\_\_\_\_

Total number of trials: \_\_\_\_\_

Answer questions 1-7 using the class data:

1.

2.

3.

4.

5.

6.

7.

Answer questions 1-7 using the theoretical probability that the birth of a boy or girl is equally likely:

1.

2.

3.

4.

5.

6.

7.

How do your experimental, the class and the theoretical probabilities compare?

**Keystrokes for the fx-9750G Plus**

From the Main Menu, press 2 for STAT.

*If there are data in List 1, follow these directions:*

- *Press F6 (make sure that the highlighted cell is List 1 by pressing the right/left arrow)*
- *Press F4 (delete all) then press F1 (yes)*

Enter Data:

- Type the random numbers for gender data in List 1.  
With appropriate cell highlighted, type numerical value then EXE to store.

Find One-Variable Statistics:

- Press F2 (calculate) then F6 (set)
- With 1-Var Xlist highlighted, press F1
- Press EXIT
- Press F1 (1-variable)
- Use the down arrow key to scroll for more values

Create a Histogram: In the STAT mode

- Press EXIT
- Press F1 (graph), F4 (make sure Graph 1 is turned on) then press EXIT
- Press F6 (set), Press down arrow key to Graph Type, F6 then press F1 for Histogram then EXE.
- Press down arrow key to Xlist, press F1, press 3 (List 3), then frequency 1.
- Press EXIT, F1 for Graph 1, Start 1, Width 1, then EXE and the graph should appear
- To Trace, press SHIFT F1

*If your graph does not appear, follow these directions:*

- *Press SHIFT then MENU*
- *Press F1 to change STAT Window to Auto*
- *Press EXIT*