

Statistics Activity 2: Gender Probability Activity

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CALCULATORS: Casio: *fx-9750G Plus & CFX-9850G Series*

Keystrokes for the Calculator

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** (DEL-A) then press **F1** (YES).

Enter Data:

- Type the random number data in List 1 and List 2.
- With appropriate cell highlighted, type numerical value then **EXE** to store.

Find One-Variable Statistics:

- Press **F2** (CALC) then **F6** (SET).
- With 1-Var Xlist highlighted, press **F1**(List1) .
- Press **EXIT**.
- Press **F1** (1-VAR).
- Use the **down arrow key** to scroll for more values.

Create a Histogram: In the STAT mode

- Press **EXIT**.
- Press **F1** (GRPH) **F4** (SEL). Make sure Graph 1 is turned on. Then press **EXIT**.
- Press **F6** (SET). Press **down arrow key** to Graph Type. Press **F6**. Then press **F1** for Histogram.
- Press **down arrow key** to Xlist, press **F1**. Press **down arrow key** and **F1** (List1).
- Press **EXIT F1** for Graph 1. Set the start and pitch at 1. Then press **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**.

Student Worksheet Activity 2

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. _____

Name _____ Date _____

Student Worksheet Activity 2

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? Explain.
