

Homework Solutions

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Example 8.2

- (a) I will enter `randInt(0,1,4)` into my TI-83 and get a sequence of 0's and 1's. Since I am counting women, I'll interpret each 1 as a woman and each 0 as a man. (Another possibility would be to toss a coin. Heads = woman, tails = man.)
- (b) I got 2 women. The sample proportion is $\frac{2}{4} = 0.50$. (Your results may differ.)
- (c) In the next 5 samples, I got sample proportions of 0.50, 0.75, 0.50, 0.50, and 0.50. (Your results may differ.)
- (d)

<i>Number of Women</i>	<i>Sample Proportion \hat{p}</i>	<i>Tally</i>	<i>Frequency</i>	<i>Proportion of All Trials</i>
0	0.00	11	2	0.04
1	0.25	1111 1111 1	11	0.22
2	0.50	1111 1111 1111 1111 1111	25	0.50
3	0.75	1111 1111 1	11	0.22
4	1.00	1	1	0.02

(Your results may differ.)

- (e) 4%, 22%, 50%, 22%, and 2%, respectively. (Your results may differ.)
- (f) 50%.