

**Solve each problem.**

- 1) In a library there was a donation box for books. A librarian wanted to estimate how many fiction and how many non-fiction books were in the box so she pulled out a sample. The results are shown below:

Sample #	1	2	3	4	5	6	7
Fiction	42	43	41	40	44	44	43
Non-Fiction	52	51	48	50	50	52	50

Based on the information presented can you infer anything about the types of books donated?

- 2) A dentist was trying to determine if more boys or girls had cavities. He checked the visits from the last month and his results are shown below:

S #	1	2
Boys	3	3
Girls	3	1

Based on the information presented what can you infer about who had cavities?

- 3) A car company was trying to figure out if more men or more women purchased yellow cars. To do this they polled all the customer who bought a yellow car in the last month. Their results are shown below:

S #	1	2	3	4	5	6	7	8
Men	32	30	29	32	29	31	30	30
Women	31	32	28	28	30	28	29	28

Based on the information presented what can you infer about who bought yellow cars?



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Based on the information presented can you infer anything about the types of books donated?

Based on the information presented there will be 15% more Non-Fiction books donated.

- 2) A dentist was trying to determine if more boys or girls had cavities. He checked the visits from the last month and his results are shown below:

S #	1	2
Boys	3	3
Girls	3	1

Based on the information presented what can you infer about who had cavities?

Based on the information presented and the small samples gathered it is impossible to make any meaningful assumptions.

- 3) A car company was trying to figure out if more men or more women purchased yellow cars. To do this they polled all the customer who bought a yellow car in the last month. Their results are shown below:

S #	1	2	3	4	5	6	7	8
Men	32	30	29	32	29	31	30	30
Women	31	32	28	28	30	28	29	28

Based on the information presented what can you infer about who bought yellow cars?

Because of the very small discrepancy in the quantities it is unlikely any deduction can be made about who bought more yellow cars.