

**Solve each problem.**

1) In a lake there are 3 types of fish: minnows, goldfish and sunfish. A fisherman wanted to estimate how many of each type there were. He scooped up several nets full and recorded his results (shown below).

Sample #	1	2
minnows	7	3
goldfish	4	7
sunfish	7	7

Based on the information presented can you infer anything about the number of different types of fish in the lake?

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

2) 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	8
Fiction	40	40	40	41	44	41	44	44
Non-Fiction	48	49	52	51	50	50	51	50

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

**Based on the information presented there will be 16% more Non-Fiction books donated.**

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:

Sample #	1	2	3	4	5	6	7
Men	39	40	40	41	38	39	40
Women	41	38	38	39	41	42	38

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.**



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