

**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	22	21	20	21	23	20	22
Non-Fiction	30	31	30	29	28	30	28

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

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- 2) During a class election a teacher wanted to predict who would win. To do this she took a sample of students from each class and asked who they would vote for. The results are shown below:

S #	1	2	3	4	5	6	7	8
Candidate A	59	61	61	62	59	62	61	59
Candidate B	51	54	52	52	51	51	52	50

Based on the information presented can you infer anything about who will win the election?

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- 3) 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).

S #	1	2	3	4	5	6	7	8
minnows	2	1	4	5	5	4	3	1
goldfish	2	5	5	5	5	3	3	5
sunfish	3	3	1	3	4	3	1	3

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

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Fiction	22	21	20	21	23	20	22
Non-Fiction	30	31	30	29	28	30	28

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

**Based on the information presented there will be 27% more Non-Fiction books donated.**

- 2) During a class election a teacher wanted to predict who would win. To do this she took a sample of students from each class and asked who they would vote for. The results are shown below:

S #	1	2	3	4	5	6	7	8
Candidate A	59	61	61	62	59	62	61	59
Candidate B	51	54	52	52	51	51	52	50

Based on the information presented can you infer anything about who will win the election?

**Based on the information presented Candidate A will have 14% more votes.**

- 3) 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).

S #	1	2	3	4	5	6	7	8
minnows	2	1	4	5	5	4	3	1
goldfish	2	5	5	5	5	3	3	5
sunfish	3	3	1	3	4	3	1	3

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.**