

**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	3	4	5	6
minnows	36	32	36	31	35	32
goldfish	41	40	41	44	43	43
sunfish	52	50	50	49	52	52

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 there will be more sunfish in the lake than minnows or goldfish.

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:

Sample #	1	2	3	4	5	6	7
Candidate A	20	22	24	23	23	23	20
Candidate B	28	28	30	32	31	29	28

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

Based on the information presented Candidate B will have 24% more votes.

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	4	5	4	4	4	6	5
Women	5	6	2	6	3	2	6

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

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

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