Solve each problem.

1) At the football game a vendor was trying to determine if Coke or Pepsi sold better. To do this he asked several rows of attendees which flavor they bought. His results are shown below:

Array #	1	2	3	4	5	6	7	8
Coke	5	2	3	5	1	3	4	3
Pepsi	3	3	3	5	5	2	5	3

Based on the information presented what can you infer about the types of soda sold?

2) An animal control employee wanted to estimate how many people owned cats and how many owned dogs. To do this he polled the first few houses in several neighborhoods. His findings are shown below:

Array #	1	2	3	4	5	6
Dog	59	59	58	62	62	62
Cat	51	50	51	54	54	51

Based on the information presented what can you infer about which type of pets there are?

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).

Array #	1	2	3	4	5	6	7
minnows	41	42	39	42	42	40	42
goldfish	39	40	39	42	39	38	38
sunfish	40	40	39	42	38	39	38

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

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Coke	5	2	3	5	1	3	4	3
Pepsi	3	3	3	5	5	2	5	3

Based on the information presented what can you infer about the types of soda sold?

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

2) An animal control employee wanted to estimate how many people owned cats and how many owned dogs. To do this he polled the first few houses in several neighborhoods. His findings are shown below:

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Based on the information presented what can you infer about which type of pets there are?

Based on the information presented 14% more Dogs were owned.

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).

Array #	1	2	3	4	5	6	7
minnows	41	42	39	42	42	40	42
goldfish	39	40	39	42	39	38	38
sunfish	40	40	39	42	38	39	38

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

Because of the very small discrepancy in the quantities it is unlikely any deduction can be made about the types of fish.