Solve each problem.

1) 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:

Sample #	1	2	3	4	5	6	7	8
Dog	40	40	42	41	40	40	42	41
Cat	40	38	40	40	39	39	41	38

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

2) 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:

Sample #	1	2
Coke	3	5
Pepsi	1	4

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

3) For a canned food drive there were 3 types of cans vegetables donated: peas, carrots and green beans. To estimate how many of each type were donated, you pull out a sample. The results are shown below:

Sample #	1	2	3	4	5	6
peas	38	42	41	38	38	39
carrots	32	31	33	32	33	33
green beans	25	20	26	21	24	26

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

Examining Samples Name: **Answer Key**

Solve each problem.

1) 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:

Sample #	1	2	3	4	5	6	7	8
Dog	40	40	42	41	40	40	42	41
Cat	40	38	40	40	39	39	41	38

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

Because of the very small discrepancy in the quantities it is unlikely any deduction can be made about how many cats or dogs are owned.

2) 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:

Sample #	1	2
Coke	3	5
Pepsi	1	4

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.

3) For a canned food drive there were 3 types of cans vegetables donated: peas, carrots and green beans. To estimate how many of each type were donated, you pull out a sample. The results are shown below:

Sample #	1	2	3	4	5	6
peas	38	42	41	38	38	39
carrots	32	31	33	32	33	33
green beans	25	20	26	21	24	26

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

Based on the information presented there will be more peas donated than carrots or green beans.