Name:

Solve each problem.

1) A store manager was trying to figure out how many people did their shopping online compared to doing it in stores. To do this she polled several houses in the nearby neighborhoods. The results are shown below:

Sample #	1	2
Online	3	4
In-Store	2	3

Based on the information presented can you infer anything about the number of people who did their shopping online vs. in-store?

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:

S #	1	2	3	4	5	6
Fiction	41	39	41	42	38	41
Non-Fiction	41	38	39	42	41	40

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

3) A carpenter has accumulated a large collection of nails, screws and bolts, which he had randomly thrown together into a bucket. Later he wanted to estimate how many of each he had. To do this he grabbed a handful from the bucket. His results are shown below.

S #	1	2	3	4	5
nails	41	40	44	44	43
screws	34	30	34	32	35
bolts	48	51	48	51	51

Based on the information presented can you infer anything about the relationship between the number of nails, screws and bolts in the bucket?

Name: **Answer Key**

Solve each problem.

1) A store manager was trying to figure out how many people did their shopping online compared to doing it in stores. To do this she polled several houses in the nearby neighborhoods. The results are shown below:

Sample #	1	2
Online	3	4
In-Store	2	3

Based on the information presented can you infer anything about the number of people who did their shopping online vs. in-store?

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:

S #	1	2	3	4	5	6
Fiction	41	39	41	42	38	41
Non-Fiction	41	38	39	42	41	40

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

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

3) A carpenter has accumulated a large collection of nails, screws and bolts, which he had randomly thrown together into a bucket. Later he wanted to estimate how many of each he had. To do this he grabbed a handful from the bucket. His results are shown below.

S #	1	2	3	4	5
nails	41	40	44	44	43
screws	34	30	34	32	35
bolts	48	51	48	51	51

Based on the information presented can you infer anything about the relationship between the number of nails, screws and bolts in the bucket?

Based on the information presented there will be more bolts in the bucket than nails or screws.