

**Solve each problem.**

- 1) 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
peas	34	34	34	34	30
carrots	40	41	41	42	40
green beans	51	51	48	49	49

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

- 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	3	4	5	6	7
Coke	3	0	3	2	0	1	1
Pepsi	4	1	2	0	1	1	4

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

- 3) 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	42	39	42	41	38	38	40
Non-Fiction	38	38	38	39	42	40	41

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



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peas	34	34	34	34	30
carrots	40	41	41	42	40
green beans	51	51	48	49	49

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

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

- 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	3	4	5	6	7
Coke	3	0	3	2	0	1	1
Pepsi	4	1	2	0	1	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) 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	42	39	42	41	38	38	40
Non-Fiction	38	38	38	39	42	40	41

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.