

**Solve each problem.**

- 1) 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.

Sample #	1	2	3	4	5	6	7
nails	19	18	19	19	18	20	22
screws	20	19	20	22	20	20	21
bolts	19	20	21	21	21	21	22

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

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- 2) 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
peas	4	3
carrots	4	3
green beans	3	4

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

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- 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
Fiction	62	61	59	59	58	60
Non-Fiction	52	54	50	54	54	50

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

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Sample #	1	2	3	4	5	6	7
nails	19	18	19	19	18	20	22
screws	20	19	20	22	20	20	21
bolts	19	20	21	21	21	21	22

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

**Because of the very small discrepancy in the quantities it is unlikely any deduction can be made about the number of nails, screws or bolts in the bucket.**

- 2) 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
peas	4	3
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Based on the information presented can you infer anything about the types of cans donated?

**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
Fiction	62	61	59	59	58	60
Non-Fiction	52	54	50	54	54	50

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

**Based on the information presented there will be 12% more Fiction books donated.**