

**Solve each problem.**

- 1) A pizzeria owner was trying to determine which types of meat he should stock the most of for his new store. To do this he asked several pizza eaters what their favorite toppings were. His results are shown below:

Sample #	1	2	3	4	5
Pepperoni	50	51	50	48	48
Sausage	49	49	50	49	52
Ham	48	49	49	49	48

Based on the information presented what can you infer about which type of meat he should stock?

- 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:

S #	1	2
Dog	5	4
Cat	4	5

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

- 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
nails	5	3
screws	6	6
bolts	5	5

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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Because of the very small discrepancy in the quantities it is unlikely any deduction can be made about which type of meat he should stock the most of.

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

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