

**Solve each problem.**

- 1) 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
Fiction	3	7
Non-Fiction	7	7

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

- 2) 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	6	7
Pepperoni	26	24	23	25	23	23	20
Sausage	34	34	31	32	30	31	33
Ham	41	38	39	38	38	38	40

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

- 3) An ad agency was trying to determine if customers liked blue, green or red packaging better. To do this they took a sample of customers and polled them. The results are shown below:

Sample #	1	2	3	4	5
Red	21	18	18	18	21
Green	18	18	20	20	21
Blue	22	19	20	19	18

Based on the information presented can you infer anything about which color is liked the best?



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Sample #	1	2
Fiction	3	7
Non-Fiction	7	7

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

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

- 2) 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:

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Ham	41	38	39	38	38	38	40

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

Based on the information presented he should stock more Ham than Pepperoni or Sausage.

- 3) An ad agency was trying to determine if customers liked blue, green or red packaging better. To do this they took a sample of customers and polled them. The results are shown below:

Sample #	1	2	3	4	5
Red	21	18	18	18	21
Green	18	18	20	20	21
Blue	22	19	20	19	18

Based on the information presented can you infer anything about which color is liked the best?

Because of the very small discrepancy in the quantities it is unlikely any deduction can be made about the color customers liked.