

Solve each problem.

1) A car company was trying to figure out if more men or more women purchased yellow cars. To do this they polled all the customer who bought a yellow car in the last month. Their results are shown below:

Sample #	1	2	3	4	5
Men	52	48	52	48	48
Women	40	44	40	40	44

Based on the information presented what can you infer about who bought yellow cars?

2) 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:

S#	1	2	3	4	5	6	7
Online	52	51	51	51	52	52	50
In-Store	52	49	52	51	50	50	49

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

3) 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	3	4	5
Dog	4	7	4	7	6
Cat	4	7	6	7	3

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

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Sample #	1	2	3	4	5
Men	52	48	52	48	48
Women	40	44	40	40	44

Based on the information presented what can you infer about who bought yellow cars?

Based on the information presented 16% more Men bought yellow cars.

2) 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:

S#	1	2	3	4	5	6	7
Online	52	51	51	51	52	52	50
In-Store	52	49	52	51	50	50	49

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

Because of the very small discrepancy in the quantities it is unlikely any deduction can be made about where people shop.

3) 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:

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

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