

**Solve each problem.**

- 1) 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:

Sample #	1	2	3	4	5	6	7
Dog	51	48	52	48	50	48	51
Cat	48	51	52	48	49	49	52

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

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- 2) 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	6
Red	5	6	5	4	6	3
Green	3	7	5	5	3	4
Blue	5	5	7	4	7	7

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

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- 3) 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	6	7
peas	44	44	42	41	44	41	40
carrots	52	50	50	48	50	51	49
green beans	36	30	33	30	33	35	31

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

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- 1) 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:

Sample #	1	2	3	4	5	6	7
Dog	51	48	52	48	50	48	51
Cat	48	51	52	48	49	49	52

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

**Because of the very small discrepancy in the quantities it is unlikely any deduction can be made about how many cats or dogs are owned.**

- 2) 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	6
Red	5	6	5	4	6	3
Green	3	7	5	5	3	4
Blue	5	5	7	4	7	7

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

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

- 3) 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:

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peas	44	44	42	41	44	41	40
carrots	52	50	50	48	50	51	49
green beans	36	30	33	30	33	35	31

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

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