



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  |
|----------|----|----|----|----|----|----|
| Dog      | 48 | 52 | 48 | 51 | 48 | 51 |
| Cat      | 52 | 52 | 49 | 49 | 50 | 51 |

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

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- 2) During a class election a teacher wanted to predict who would win. To do this she took a sample of students from each class and asked who they would vote for. The results are shown below:

| S #         | 1 | 2 | 3 | 4 | 5 | 6 |
|-------------|---|---|---|---|---|---|
| Candidate A | 4 | 3 | 5 | 7 | 5 | 3 |
| Candidate B | 4 | 6 | 6 | 4 | 4 | 7 |

Based on the information presented can you infer anything about who will win the election?

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- 3) 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:

| S #       | 1 | 2 |
|-----------|---|---|
| Pepperoni | 6 | 5 |
| Sausage   | 3 | 3 |
| Ham       | 6 | 6 |

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

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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:

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|----------|----|----|----|----|----|----|
| Dog      | 48 | 52 | 48 | 51 | 48 | 51 |
| Cat      | 52 | 52 | 49 | 49 | 50 | 51 |

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) During a class election a teacher wanted to predict who would win. To do this she took a sample of students from each class and asked who they would vote for. The results are shown below:

| S #         | 1 | 2 | 3 | 4 | 5 | 6 |
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| Candidate A | 4 | 3 | 5 | 7 | 5 | 3 |
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Based on the information presented can you infer anything about who will win the election?

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

- 3) 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:

| S #       | 1 | 2 |
|-----------|---|---|
| Pepperoni | 6 | 5 |
| Sausage   | 3 | 3 |
| Ham       | 6 | 6 |

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

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