

**Solve each problem.**

- 1) 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:

| Sample # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|-------------|----|----|----|----|----|----|----|----|
| Candidate A | 59 | 61 | 62 | 61 | 61 | 59 | 59 | 59 |
| Candidate B | 52 | 50 | 52 | 52 | 52 | 52 | 50 | 52 |

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

- 2) 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:

| S # | 1 | 2 | 3 | 4 | 5 |
|-------------|----|----|----|----|----|
| peas | 31 | 31 | 29 | 31 | 30 |
| carrots | 29 | 31 | 31 | 32 | 32 |
| green beans | 31 | 29 | 32 | 30 | 32 |

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

- 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 | 3 | 4 | 5 |
|-----------|---|---|---|---|---|
| Pepperoni | 1 | 1 | 2 | 3 | 4 |
| Sausage | 4 | 3 | 3 | 2 | 0 |
| Ham | 0 | 3 | 3 | 2 | 1 |

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



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|-------------|----|----|----|----|----|----|----|----|
| Candidate A | 59 | 61 | 62 | 61 | 61 | 59 | 59 | 59 |
| Candidate B | 52 | 50 | 52 | 52 | 52 | 52 | 50 | 52 |

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

Based on the information presented Candidate A will have 14% more votes.

- 2) 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:

| S # | 1 | 2 | 3 | 4 | 5 |
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| peas | 31 | 31 | 29 | 31 | 30 |
| carrots | 29 | 31 | 31 | 32 | 32 |
| green beans | 31 | 29 | 32 | 30 | 32 |

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

Because of the very small discrepancy in the quantities it is unlikely any deduction can be made about the types of cans donated.

- 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:

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| Pepperoni | 1 | 1 | 2 | 3 | 4 |
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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.
