



Solve each problem.

- 1) 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  |
|-------------|----|----|----|----|----|----|
| peas        | 28 | 29 | 29 | 29 | 32 | 32 |
| carrots     | 32 | 28 | 31 | 29 | 31 | 28 |
| green beans | 29 | 29 | 31 | 32 | 30 | 32 |

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

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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 |
|-------------|---|---|
| Candidate A | 2 | 1 |
| Candidate B | 1 | 3 |

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

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- 3) In a lake there are 3 types of fish: minnows, goldfish and sunfish. A fisherman wanted to estimate how many of each type there were. He scooped up several nets full and recorded his results (shown below).

| S #      | 1  | 2  | 3  | 4  | 5  | 6  |
|----------|----|----|----|----|----|----|
| minnows  | 40 | 40 | 42 | 42 | 38 | 40 |
| goldfish | 24 | 26 | 20 | 21 | 22 | 22 |
| sunfish  | 30 | 33 | 30 | 31 | 31 | 32 |

Based on the information presented can you infer anything about the number of different types of fish in the lake?

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- 1) 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  |
|-------------|----|----|----|----|----|----|
| peas        | 28 | 29 | 29 | 29 | 32 | 32 |
| carrots     | 32 | 28 | 31 | 29 | 31 | 28 |
| green beans | 29 | 29 | 31 | 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.**

- 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 |
|-------------|---|---|
| Candidate A | 2 | 1 |
| Candidate B | 1 | 3 |

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) In a lake there are 3 types of fish: minnows, goldfish and sunfish. A fisherman wanted to estimate how many of each type there were. He scooped up several nets full and recorded his results (shown below).

| S #      | 1  | 2  | 3  | 4  | 5  | 6  |
|----------|----|----|----|----|----|----|
| minnows  | 40 | 40 | 42 | 42 | 38 | 40 |
| goldfish | 24 | 26 | 20 | 21 | 22 | 22 |
| sunfish  | 30 | 33 | 30 | 31 | 31 | 32 |

Based on the information presented can you infer anything about the number of different types of fish in the lake?

**Based on the information presented there will be more minnows in the lake than goldfish or sunfish.**