## 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 \# | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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?
$\qquad$
$\qquad$
$\qquad$
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 \# | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Candidate A | 2 | 1 | 1 | 3 | 1 | 5 |
| Candidate B | 5 | 5 | 5 | 5 | 3 | 1 |

Based on the information presented can you infer anything about who will win the election?
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 \# | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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?

## 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 \# | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 \# | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Candidate A | 2 | 1 | 1 | 3 | 1 | 5 |
| Candidate B | 5 | 5 | 5 | 5 | 3 | 1 |

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 \# | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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.

## 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 \# | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ | $\mathbf{7}$ | $\mathbf{8}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Candidate A | 7 | 4 | 6 | 3 | 7 | 4 | 4 | 6 |
| Candidate B | 7 | 5 | 7 | 6 | 6 | 6 | 7 | 7 |

Based on the information presented can you infer anything about who will win the election?
$\qquad$
$\qquad$
$\qquad$
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:

| $\mathbf{S} \#$ | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| peas | 34 | 33 | 31 | 34 | 32 |
| carrots | 40 | 39 | 41 | 41 | 42 |
| green beans | 22 | 22 | 26 | 21 | 20 |

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:

| $\mathbf{S} \#$ | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Pepperoni | 19 | 19 | 20 | 21 | 22 |
| Sausage | 22 | 21 | 21 | 20 | 18 |
| Ham | 18 | 21 | 21 | 20 | 19 |

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

## 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 \# | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ | $\mathbf{7}$ | $\mathbf{8}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Candidate A | 7 | 4 | 6 | 3 | 7 | 4 | 4 | 6 |
| Candidate B | 7 | 5 | 7 | 6 | 6 | 6 | 7 | 7 |

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.
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:

| $\mathbf{S} \#$ | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| peas | 34 | 33 | 31 | 34 | 32 |
| carrots | 40 | 39 | 41 | 41 | 42 |
| green beans | 22 | 22 | 26 | 21 | 20 |

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.
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 \# | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Pepperoni | 19 | 19 | 20 | 21 | 22 |
| Sausage | 22 | 21 | 21 | 20 | 18 |
| Ham | 18 | 21 | 21 | 20 | 19 |

Based on the information presented what can you infer about which type of meat he should stock?
Because of the very small discrepancy in the quantities it is unlikely any deduction can be made about which type of meat he should stock the most of.

## Solve each problem.

1) 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:

| Sample \# | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Online | 51 | 50 | 51 | 52 | 48 |
| In-Store | 43 | 41 | 44 | 41 | 44 |

Based on the information presented can you infer anything about the number of people who did their shopping online vs. in-store?
$\qquad$
$\qquad$
$\qquad$
2) At the football game a vendor was trying to determine if Coke or Pepsi sold better. To do this he asked several rows of attendees which flavor they bought. His results are shown below:

| S \# | $\mathbf{1}$ | $\mathbf{2}$ |
| :---: | :---: | :---: |
| Coke | 5 | 3 |
| Pepsi | 3 | 6 |

Based on the information presented what can you infer about the types of soda sold?
$\qquad$
$\qquad$
$\qquad$
3) A dentists was trying to determine if more boys or girls had cavities. He checked the visits from the last month and his results are shown below:

| S \# | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Boys | 19 | 19 | 20 | 20 | 21 | 19 |
| Girls | 20 | 22 | 19 | 22 | 18 | 19 |

Based on the information presented what can you infer about who had cavities?

## Solve each problem.

1) 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:

| Sample \# | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Online | 51 | 50 | 51 | 52 | 48 |
| In-Store | 43 | 41 | 44 | 41 | 44 |

Based on the information presented can you infer anything about the number of people who did their shopping online vs. in-store?
Based on the information presented there will be $15 \%$ more people shopped Online.
2) At the football game a vendor was trying to determine if Coke or Pepsi sold better. To do this he asked several rows of attendees which flavor they bought. His results are shown below:

| S \# | $\mathbf{1}$ | $\mathbf{2}$ |
| :---: | :---: | :---: |
| Coke | 5 | 3 |
| Pepsi | 3 | 6 |

Based on the information presented what can you infer about the types of soda sold?
Based on the information presented and the small samples gathered it is impossible to make any meaningful assumptions.
3) A dentists was trying to determine if more boys or girls had cavities. He checked the visits from the last month and his results are shown below:

| S \# | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Boys | 19 | 19 | 20 | 20 | 21 | 19 |
| Girls | 20 | 22 | 19 | 22 | 18 | 19 |

Based on the information presented what can you infer about who had cavities?
Because of the very small discrepancy in the quantities it is unlikely any deduction can be made about who had more cavities.

## Solve each problem.

1) 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:

| Sample \# | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Online | 51 | 51 | 48 | 50 | 52 | 49 |
| In-Store | 42 | 40 | 40 | 42 | 41 | 42 |

Based on the information presented can you infer anything about the number of people who did their shopping online vs. in-store?
2) In a library there was a donation box for books. A librarian wanted to estimate how many fiction and how many non-fiction books were in the box so she pulled out a sample. The results are shown below:

| S \# | $\mathbf{1}$ | $\mathbf{2}$ |
| :---: | :---: | :---: |
| Fiction | 5 | 3 |
| Non-Fiction | 5 | 6 |

Based on the information presented can you infer anything about the types of books donated?
$\qquad$
$\qquad$
$\qquad$
3) A carpenter has accumulated a large collection of nails, screws and bolts, which he had randomly thrown together into a bucket. Later he wanted to estimate how many of each he had. To do this he grabbed a handful from the bucket. His results are shown below.

| S \# | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| nails | 39 | 40 | 39 | 41 | 38 |
| screws | 41 | 38 | 41 | 41 | 39 |
| bolts | 38 | 42 | 42 | 41 | 39 |

Based on the information presented can you infer anything about the relationship between the number of nails,screws and bolts in the bucket?

## Solve each problem.

1) 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:

| Sample \# | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Online | 51 | 51 | 48 | 50 | 52 | 49 |
| In-Store | 42 | 40 | 40 | 42 | 41 | 42 |

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

## Based on the information presented there will be $17 \%$ more people shopped Online.

2) In a library there was a donation box for books. A librarian wanted to estimate how many fiction and how many non-fiction books were in the box so she pulled out a sample. The results are shown below:

| S \# | $\mathbf{1}$ | $\mathbf{2}$ |
| :---: | :---: | :---: |
| Fiction | 5 | 3 |
| Non-Fiction | 5 | 6 |

Based on the information presented can you infer anything about the types of books donated?
Based on the information presented and the small samples gathered it is impossible to make any meaningful assumptions.
3) A carpenter has accumulated a large collection of nails, screws and bolts, which he had randomly thrown together into a bucket. Later he wanted to estimate how many of each he had. To do this he grabbed a handful from the bucket. His results are shown below.

| $\mathbf{S} \#$ | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| nails | 39 | 40 | 39 | 41 | 38 |
| screws | 41 | 38 | 41 | 41 | 39 |
| bolts | 38 | 42 | 42 | 41 | 39 |

Based on the information presented can you infer anything about the relationship between the number of nails,screws and bolts in the bucket?
Because of the very small discrepancy in the quantities it is unlikely any deduction can be made about the number of nails,screws or bolts in the bucket.

## Solve each problem.

1) A dentists was trying to determine if more boys or girls had cavities. He checked the visits from the last month and his results are shown below:

| Sample \# | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ | $\mathbf{7}$ | $\mathbf{8}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Boys | 40 | 41 | 40 | 38 | 38 | 38 | 39 | 39 |
| Girls | 40 | 38 | 40 | 38 | 38 | 39 | 38 | 42 |

Based on the information presented what can you infer about who had cavities?
$\qquad$
$\qquad$
$\qquad$
2) 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 \# | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Pepperoni | 40 | 38 | 38 | 42 | 38 | 41 |
| Sausage | 30 | 30 | 34 | 34 | 32 | 31 |
| Ham | 25 | 26 | 24 | 26 | 20 | 26 |

Based on the information presented what can you infer about which type of meat he should stock?
3) 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:

| $\mathbf{S} \#$ | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Red | 7 | 3 | 7 | 3 | 4 | 4 |
| Green | 4 | 7 | 7 | 4 | 3 | 5 |
| Blue | 6 | 3 | 5 | 6 | 5 | 5 |

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

## Solve each problem.

1) A dentists was trying to determine if more boys or girls had cavities. He checked the visits from the last month and his results are shown below:

| Sample \# | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ | $\mathbf{7}$ | $\mathbf{8}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Boys | 40 | 41 | 40 | 38 | 38 | 38 | 39 | 39 |
| Girls | 40 | 38 | 40 | 38 | 38 | 39 | 38 | 42 |

Based on the information presented what can you infer about who had cavities?
Because of the very small discrepancy in the quantities it is unlikely any deduction can be made about who had more cavities.
2) 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 \# | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Pepperoni | 40 | 38 | 38 | 42 | 38 | 41 |
| Sausage | 30 | 30 | 34 | 34 | 32 | 31 |
| Ham | 25 | 26 | 24 | 26 | 20 | 26 |

Based on the information presented what can you infer about which type of meat he should stock?
Based on the information presented he should stock more Pepperoni than Sausage or Ham.
3) 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:

| S \# | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Red | 7 | 3 | 7 | 3 | 4 | 4 |
| Green | 4 | 7 | 7 | 4 | 3 | 5 |
| Blue | 6 | 3 | 5 | 6 | 5 | 5 |

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.

## Solve each problem.

1) A carpenter has accumulated a large collection of nails, screws and bolts, which he had randomly thrown together into a bucket. Later he wanted to estimate how many of each he had. To do this he grabbed a handful from the bucket. His results are shown below.

| Sample \# | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| nails | 29 | 30 | 28 | 31 | 28 |
| screws | 28 | 32 | 28 | 32 | 29 |
| bolts | 29 | 32 | 28 | 28 | 29 |

Based on the information presented can you infer anything about the relationship between the number of nails,screws and bolts in the bucket?
2) In order to determine which type of sweets he should keep the most of in his shop a baker logged every 5th customers order. His findings are shown below:

| S \# | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Cookies | 4 | 4 | 0 | 2 | 4 |
| Brownies | 1 | 4 | 0 | 3 | 3 |
| Cupcakes | 4 | 2 | 2 | 4 | 3 |

Based on the information presented what can you infer about which type he should stock?
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 \# | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ | $\mathbf{7}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Pepperoni | 44 | 40 | 43 | 40 | 44 | 42 | 40 |
| Sausage | 33 | 32 | 34 | 35 | 34 | 33 | 32 |
| Ham | 52 | 49 | 52 | 50 | 49 | 48 | 49 |

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

## Solve each problem.

1) A carpenter has accumulated a large collection of nails, screws and bolts, which he had randomly thrown together into a bucket. Later he wanted to estimate how many of each he had. To do this he grabbed a handful from the bucket. His results are shown below.

| Sample \# | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| nails | 29 | 30 | 28 | 31 | 28 |
| screws | 28 | 32 | 28 | 32 | 29 |
| bolts | 29 | 32 | 28 | 28 | 29 |

Based on the information presented can you infer anything about the relationship between the number of nails,screws and bolts in the bucket?
Because of the very small discrepancy in the quantities it is unlikely any deduction can be made about the number of nails,screws or bolts in the bucket.
2) In order to determine which type of sweets he should keep the most of in his shop a baker logged every 5th customers order. His findings are shown below:

| S \# | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Cookies | 4 | 4 | 0 | 2 | 4 |
| Brownies | 1 | 4 | 0 | 3 | 3 |
| Cupcakes | 4 | 2 | 2 | 4 | 3 |

Based on the information presented what can you infer about which type he should stock?
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 \# | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ | $\mathbf{7}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Pepperoni | 44 | 40 | 43 | 40 | 44 | 42 | 40 |
| Sausage | 33 | 32 | 34 | 35 | 34 | 33 | 32 |
| Ham | 52 | 49 | 52 | 50 | 49 | 48 | 49 |

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

## Based on the information presented he should stock more Ham than Pepperoni or

 Sausage.
## Solve each problem.

1) In order to determine which type of sweets he should keep the most of in his shop a baker logged every 5th customers order. His findings are shown below:

| Sample \# | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Cookies | 51 | 52 | 49 | 52 | 50 |
| Brownies | 48 | 52 | 52 | 50 | 52 |
| Cupcakes | 52 | 51 | 52 | 52 | 51 |

Based on the information presented what can you infer about which type he should stock?
$\qquad$
$\qquad$
$\qquad$
2) At the football game a vendor was trying to determine if Coke or Pepsi sold better. To do this he asked several rows of attendees which flavor they bought. His results are shown below:

| S \# | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Coke | 34 | 34 | 34 | 34 | 33 |
| Pepsi | 41 | 38 | 38 | 42 | 40 |

Based on the information presented what can you infer about the types of soda sold?
$\qquad$
$\qquad$
$\qquad$
3) A dentists was trying to determine if more boys or girls had cavities. He checked the visits from the last month and his results are shown below:

| S \# | $\mathbf{1}$ | $\mathbf{2}$ |
| :---: | :---: | :---: |
| Boys | 5 | 4 |
| Girls | 2 | 6 |

Based on the information presented what can you infer about who had cavities?

## Solve each problem.

1) In order to determine which type of sweets he should keep the most of in his shop a baker logged every 5th customers order. His findings are shown below:

| Sample \# | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Cookies | 51 | 52 | 49 | 52 | 50 |
| Brownies | 48 | 52 | 52 | 50 | 52 |
| Cupcakes | 52 | 51 | 52 | 52 | 51 |

Based on the information presented what can you infer about which type he should stock?
Because of the very small discrepancy in the quantities it is unlikely any deduction can be made about which sweets he should stock.
2) At the football game a vendor was trying to determine if Coke or Pepsi sold better. To do this he asked several rows of attendees which flavor they bought. His results are shown below:

| S \# | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Coke | 34 | 34 | 34 | 34 | 33 |
| Pepsi | 41 | 38 | 38 | 42 | 40 |

Based on the information presented what can you infer about the types of soda sold?
Based on the information presented the sales of Pepsi will be $15 \%$ higher than Coke.
3) A dentists was trying to determine if more boys or girls had cavities. He checked the visits from the last month and his results are shown below:

| S \# | $\mathbf{1}$ | $\mathbf{2}$ |
| :---: | :---: | :---: |
| Boys | 5 | 4 |
| Girls | 2 | 6 |

Based on the information presented what can you infer about who had cavities?
Based on the information presented and the small samples gathered it is impossible to make any meaningful assumptions.

## Solve each problem.

1) In order to determine which type of sweets he should keep the most of in his shop a baker logged every 5th customers order. His findings are shown below:

| Sample \# | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cookies | 39 | 42 | 39 | 39 | 41 | 38 |
| Brownies | 41 | 42 | 41 | 38 | 42 | 41 |
| Cupcakes | 41 | 41 | 38 | 38 | 39 | 40 |

Based on the information presented what can you infer about which type he should stock?
$\qquad$
$\qquad$
$\qquad$
2) 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 \# | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ | $\mathbf{7}$ | $\mathbf{8}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| minnows | 31 | 28 | 28 | 30 | 31 | 32 | 32 | 29 |
| goldfish | 15 | 11 | 14 | 11 | 14 | 14 | 15 | 16 |
| sunfish | 23 | 24 | 24 | 23 | 24 | 21 | 24 | 23 |

Based on the information presented can you infer anything about the number of different types of fish in the lake?
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$\qquad$
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 \# | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Pepperoni | 6 | 5 | 4 | 5 | 2 | 6 |
| Sausage | 3 | 3 | 3 | 5 | 6 | 6 |
| Ham | 2 | 6 | 3 | 6 | 5 | 6 |

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

## Solve each problem.

1) In order to determine which type of sweets he should keep the most of in his shop a baker logged every 5th customers order. His findings are shown below:

| Sample \# | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cookies | 39 | 42 | 39 | 39 | 41 | 38 |
| Brownies | 41 | 42 | 41 | 38 | 42 | 41 |
| Cupcakes | 41 | 41 | 38 | 38 | 39 | 40 |

Based on the information presented what can you infer about which type he should stock?
Because of the very small discrepancy in the quantities it is unlikely any deduction can be made about which sweets he should stock.
2) 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 \# | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ | $\mathbf{7}$ | $\mathbf{8}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| minnows | 31 | 28 | 28 | 30 | 31 | 32 | 32 | 29 |
| goldfish | 15 | 11 | 14 | 11 | 14 | 14 | 15 | 16 |
| sunfish | 23 | 24 | 24 | 23 | 24 | 21 | 24 | 23 |

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.
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 \# | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Pepperoni | 6 | 5 | 4 | 5 | 2 | 6 |
| Sausage | 3 | 3 | 3 | 5 | 6 | 6 |
| Ham | 2 | 6 | 3 | 6 | 5 | 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.

## Solve each problem.

1) 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:

| Sample \# | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ | $\mathbf{7}$ | $\mathbf{8}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Pepperoni | 4 | 1 | 2 | 3 | 1 | 2 | 5 | 4 |
| Sausage | 4 | 3 | 2 | 3 | 1 | 3 | 2 | 3 |
| Ham | 4 | 1 | 5 | 5 | 3 | 4 | 3 | 3 |

Based on the information presented what can you infer about which type of meat he should stock?
$\qquad$
$\qquad$
$\qquad$
2) 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 \# | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| minnows | 31 | 30 | 28 | 32 | 30 | 28 |
| goldfish | 14 | 16 | 13 | 15 | 12 | 13 |
| sunfish | 24 | 21 | 22 | 21 | 24 | 24 |

Based on the information presented can you infer anything about the number of different types of fish in the lake?
$\qquad$
$\qquad$
$\qquad$
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 \# | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Dog | 20 | 19 | 22 | 18 | 21 | 20 |
| Cat | 20 | 21 | 19 | 19 | 22 | 21 |

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

## Solve each problem.

1) 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:

| Sample \# | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ | $\mathbf{7}$ | $\mathbf{8}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Pepperoni | 4 | 1 | 2 | 3 | 1 | 2 | 5 | 4 |
| Sausage | 4 | 3 | 2 | 3 | 1 | 3 | 2 | 3 |
| Ham | 4 | 1 | 5 | 5 | 3 | 4 | 3 | 3 |

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.
2) 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 \# | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| minnows | 31 | 30 | 28 | 32 | 30 | 28 |
| goldfish | 14 | 16 | 13 | 15 | 12 | 13 |
| sunfish | 24 | 21 | 22 | 21 | 24 | 24 |

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.
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 \# | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Dog | 20 | 19 | 22 | 18 | 21 | 20 |
| Cat | 20 | 21 | 19 | 19 | 22 | 21 |

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.

## Solve each problem.

1) In a library there was a donation box for books. A librarian wanted to estimate how many fiction and how many non-fiction books were in the box so she pulled out a sample. The results are shown below:

| Sample \# | $\mathbf{1}$ | $\mathbf{2}$ |
| :---: | :---: | :---: |
| Fiction | 3 | 0 |
| Non-Fiction | 1 | 2 |

Based on the information presented can you infer anything about the types of books 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:

| $\mathbf{S} \#$ | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ | $\mathbf{7}$ | $\mathbf{8}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Candidate A | 51 | 48 | 52 | 49 | 49 | 51 | 51 | 52 |
| Candidate B | 49 | 52 | 51 | 49 | 49 | 52 | 50 | 50 |

Based on the information presented can you infer anything about who will win the election?
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 \# | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ | $\mathbf{7}$ | $\mathbf{8}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| minnows | 23 | 25 | 23 | 21 | 25 | 23 | 23 | 23 |
| goldfish | 34 | 32 | 32 | 34 | 32 | 32 | 30 | 32 |
| sunfish | 42 | 41 | 40 | 38 | 39 | 42 | 42 | 42 |

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

## Solve each problem.

1) In a library there was a donation box for books. A librarian wanted to estimate how many fiction and how many non-fiction books were in the box so she pulled out a sample. The results are shown below:

| Sample \# | $\mathbf{1}$ | $\mathbf{2}$ |
| :---: | :---: | :---: |
| Fiction | 3 | 0 |
| Non-Fiction | 1 | 2 |

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

## Based on the information presented and the small samples gathered it is impossible to

 make any meaningful assumptions.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:

| $\mathbf{S} \#$ | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ | $\mathbf{7}$ | $\mathbf{8}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Candidate A | 51 | 48 | 52 | 49 | 49 | 51 | 51 | 52 |
| Candidate B | 49 | 52 | 51 | 49 | 49 | 52 | 50 | 50 |

Based on the information presented can you infer anything about who will win the election?
Because of the very small discrepancy in the quantities it is unlikely any deduction can be made about who will win.
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 \# | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ | $\mathbf{7}$ | $\mathbf{8}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| minnows | 23 | 25 | 23 | 21 | 25 | 23 | 23 | 23 |
| goldfish | 34 | 32 | 32 | 34 | 32 | 32 | 30 | 32 |
| sunfish | 42 | 41 | 40 | 38 | 39 | 42 | 42 | 42 |

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 sunfish in the lake than minnows or goldfish.

