

**Solve each problem.**

- 1) A car company was trying to figure out if more men or more women purchased yellow cars. To do this they polled all the customer who bought a yellow car in the last month. Their results are shown below:

| Sample # | 1 | 2 | 3 | 4 | 5 | 6 |
|----------|----|----|----|----|----|----|
| Men | 52 | 51 | 49 | 52 | 51 | 48 |
| Women | 51 | 48 | 48 | 48 | 51 | 51 |

Based on the information presented what can you infer about who bought yellow cars?

- 2) 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 # | 1 | 2 |
|-------|---|---|
| Boys | 2 | 3 |
| Girls | 3 | 5 |

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

- 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 | 6 | 7 |
|-----------|----|----|----|----|----|----|----|
| Pepperoni | 43 | 40 | 40 | 43 | 41 | 44 | 44 |
| Sausage | 31 | 30 | 32 | 34 | 34 | 30 | 33 |
| Ham | 48 | 51 | 52 | 48 | 51 | 50 | 52 |

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



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|----------|----|----|----|----|----|----|
| Men | 52 | 51 | 49 | 52 | 51 | 48 |
| Women | 51 | 48 | 48 | 48 | 51 | 51 |

Based on the information presented what can you infer about who bought yellow cars?

Because of the very small discrepancy in the quantities it is unlikely any deduction can be made about who bought more yellow cars.

- 2) 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 # | 1 | 2 |
|-------|---|---|
| Boys | 2 | 3 |
| Girls | 3 | 5 |

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.

- 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 | 43 | 40 | 40 | 43 | 41 | 44 | 44 |
| Sausage | 31 | 30 | 32 | 34 | 34 | 30 | 33 |
| Ham | 48 | 51 | 52 | 48 | 51 | 50 | 52 |

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.