



Solve each problem.

- 1) 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:

| Array # | 1  | 2  | 3  | 4  | 5  | 6  |
|---------|----|----|----|----|----|----|
| Red     | 52 | 48 | 52 | 50 | 50 | 49 |
| Green   | 48 | 49 | 49 | 48 | 49 | 49 |
| Blue    | 48 | 50 | 48 | 50 | 52 | 48 |

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

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- 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:

| Array # | 1  | 2  | 3  | 4  | 5  |
|---------|----|----|----|----|----|
| Coke    | 53 | 50 | 53 | 50 | 51 |
| Pepsi   | 58 | 60 | 61 | 61 | 61 |

Based on the information presented what can you infer about the types of soda sold?

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- 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:

| Array # | 1 | 2 | 3 | 4 | 5 | 6 |
|---------|---|---|---|---|---|---|
| Dog     | 7 | 4 | 5 | 5 | 7 | 6 |
| Cat     | 6 | 5 | 4 | 6 | 4 | 3 |

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

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|---------|----|----|----|----|----|----|
| Red     | 52 | 48 | 52 | 50 | 50 | 49 |
| Green   | 48 | 49 | 49 | 48 | 49 | 49 |
| Blue    | 48 | 50 | 48 | 50 | 52 | 48 |

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

**Because of the very small discrepancy in the quantities it is unlikely any deduction can be made about the color customers liked.**

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- 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:

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|---------|----|----|----|----|----|
| Coke    | 53 | 50 | 53 | 50 | 51 |
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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 14% higher than Coke.**

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|---------|---|---|---|---|---|---|
| Dog     | 7 | 4 | 5 | 5 | 7 | 6 |
| Cat     | 6 | 5 | 4 | 6 | 4 | 3 |

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

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

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