

**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:

Sample #	1	2	3	4	5
Red	32	29	32	31	30
Green	32	32	31	30	29
Blue	30	32	32	32	28

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

- 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:

Sample #	1	2	3	4	5	6
Cookies	52	51	54	50	51	53
Brownies	61	58	62	58	61	61
Cupcakes	46	45	43	42	46	42

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

- 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:

Sample #	1	2
Dog	3	4
Cat	5	4

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



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

Based on the information presented he should keep more Brownies than Cookies or Cupcakes.

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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.