Solve each problem.

1) 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	1	1
Cat	3	0

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.

2) 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	48	52	52	51	51	49
Women	52	50	51	48	49	49

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.

3) 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	7	8
Cookies	46	45	42	42	41	42	40	44
Brownies	51	51	52	52	50	54	54	53
Cupcakes	59	60	61	62	60	62	60	62

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

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

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