

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 #	1	2	3	4	5	6	7	8
Boys	50	52	52	50	51	52	53	51
Girls	62	58	59	62	58	58	60	60

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

2) 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
Red	3	3
Green	3	6
Blue	3	7

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

3) 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
Men	30	28	30	31	28
Women	29	29	30	30	28

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



Answer Key

Name:

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Girls	62	58	59	62	58	58	60	60

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

Based on the information presented more Girls had cavities.

2) 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
Red	3	3
Green	3	6
Blue	3	7

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.

3) 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
Men	30	28	30	31	28
Women	29	29	30	30	28

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.