

**Solve each problem.**

1) A carpenter has accumulated a large collection of nails, screws and bolts, which he had randomly thrown together into a bucket. Later he wanted to estimate how many of each he had. To do this he grabbed a handful from the bucket. His results are shown below.

Sample #	1	2	3	4	5	6	7	8
nails	2	3	2	1	2	3	4	2
screws	5	3	1	5	4	3	1	1
bolts	5	1	1	5	2	3	1	1

Based on the information presented can you infer anything about the relationship between the number of nails, screws and bolts in the bucket?

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

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	1	4
Green	4	4
Blue	0	4

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	18	21	21	22	20
Women	22	20	21	18	19

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.**

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