

**Solve each problem.**

1) 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:

Sample #	1	2	3	4	5	6	7	8
Coke	23	21	20	22	20	24	21	20
Pepsi	31	31	29	31	31	32	32	29

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 30% higher than Coke.

2) In a library there was a donation box for books. A librarian wanted to estimate how many fiction and how many non-fiction books were in the box so she pulled out a sample. The results are shown below:

Sample #	1	2	3	4	5	6	7	8
Fiction	59	62	60	58	61	61	61	60
Non-Fiction	53	53	51	53	52	51	54	53

Based on the information presented can you infer anything about the types of books donated?

Based on the information presented there will be 12% more Fiction books donated.

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
Cookies	30	29	31	28	28
Brownies	31	31	32	29	30
Cupcakes	29	30	32	28	30

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

Because of the very small discrepancy in the quantities it is unlikely any deduction can be made about which sweets he should stock.

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