

**Solve each problem.**

- 1) 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	51	52	49	52	50
Brownies	48	52	52	50	52
Cupcakes	52	51	52	52	51

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

- 2) 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:

S #	1	2	3	4	5
Coke	34	34	34	34	33
Pepsi	41	38	38	42	40

Based on the information presented what can you infer about the types of soda sold?

- 3) 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:

S #	1	2
Boys	5	4
Girls	2	6

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



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Cupcakes	52	51	52	52	51

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.

- 2) 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:

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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 15% higher than Coke.

- 3) 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:

S #	1	2
Boys	5	4
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Based on the information presented what can you infer about who had cavities?

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