

**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	6
Cookies	3	6	3	3	5	2
Brownies	5	6	5	2	6	5
Cupcakes	5	5	2	2	3	4

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

- 2) In a lake there are 3 types of fish: minnows, goldfish and sunfish. A fisherman wanted to estimate how many of each type there were. He scooped up several nets full and recorded his results (shown below).

S #	1	2	3	4	5	6	7	8
minnows	31	28	28	30	31	32	32	29
goldfish	15	11	14	11	14	14	15	16
sunfish	23	24	24	23	24	21	24	23

Based on the information presented can you infer anything about the number of different types of fish in the lake?

- 3) A pizzeria owner was trying to determine which types of meat he should stock the most of for his new store. To do this he asked several pizza eaters what their favorite toppings were. His results are shown below:

S #	1	2	3	4	5	6
Pepperoni	42	41	40	41	38	42
Sausage	39	39	39	41	42	42
Ham	38	42	39	42	41	42

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



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Cupcakes	5	5	2	2	3	4

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

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

- 2) In a lake there are 3 types of fish: minnows, goldfish and sunfish. A fisherman wanted to estimate how many of each type there were. He scooped up several nets full and recorded his results (shown below).

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Based on the information presented can you infer anything about the number of different types of fish in the lake?

Based on the information presented there will be more minnows in the lake than goldfish or sunfish.

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Pepperoni	42	41	40	41	38	42
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Ham	38	42	39	42	41	42

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

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