



Solve each problem.

- 1) 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).

Sample #	1	2	3	4	5	6	7
minnows	5	2	1	1	2	3	4
goldfish	3	5	5	1	2	1	3
sunfish	1	2	2	2	1	1	4

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

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- 2) 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	35	30	33	30
Brownies	41	44	44	40	41
Cupcakes	52	48	49	48	51

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

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- 3) 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	3	4	5	6	7
Red	28	32	31	28	32	32	30
Green	30	29	31	30	30	28	32
Blue	28	29	31	31	31	31	29

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

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goldfish	3	5	5	1	2	1	3
sunfish	1	2	2	2	1	1	4

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 and the small samples gathered it is impossible to make any meaningful assumptions.**

- 2) 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:

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

**Based on the information presented he should keep more Cupcakes than Cookies or Brownies.**

- 3) 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	3	4	5	6	7
Red	28	32	31	28	32	32	30
Green	30	29	31	30	30	28	32
Blue	28	29	31	31	31	31	29

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

**Because of the very small discrepancy in the quantities it is unlikely any deduction can be made about the color customers liked.**