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
minnows	30	30	29	31	31
goldfish	28	30	32	32	32
sunfish	28	31	31	31	30

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

2) 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.

S #	1	2	3	4	5
nails	51	54	53	52	54
screws	44	41	44	40	41
bolts	62	59	59	62	61

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

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:

S #	1	2	3	4	5	6	7	8
Cookies	50	52	49	50	48	48	49	51
Brownies	49	51	48	52	49	48	48	51
Cupcakes	52	48	49	48	50	52	48	48

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

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goldfish	28	30	32	32	32
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Based on the information presented can you infer anything about the number of different types of fish in the lake?

Because of the very small discrepancy in the quantities it is unlikely any deduction can be made about the types of fish.

2) 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.

S #	1	2	3	4	5
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screws	44	41	44	40	41
bolts	62	59	59	62	61

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 there will be more bolts in the bucket than nails or screws.

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:

S #	1	2	3	4	5	6	7	8
Cookies	50	52	49	50	48	48	49	51
Brownies	49	51	48	52	49	48	48	51
Cupcakes	52	48	49	48	50	52	48	48

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.