Name:

Solve each problem.

1) 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.

Sample #	1	2	3	4	5
nails	29	30	28	31	28
screws	28	32	28	32	29
bolts	29	32	28	28	29

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

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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:

S #	1	2	3	4	5
Cookies	23	24	22	22	24
Brownies	32	29	32	28	31
Cupcakes	11	16	13	12	15

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

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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	7
Pepperoni	4	5	3	5	6	3	6
Sausage	4	3	2	3	6	2	5
Ham	2	6	4	2	5	6	2

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

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1-3	67	33	0

Solve each problem.

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Sample #	1	2	3	4	5
nails	29	30	28	31	28
screws	28	32	28	32	29
bolts	29	32	28	28	29

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

Because of the very small discrepancy in the quantities it is unlikely any deduction can be made about the number of nails, screws or bolts in the bucket.

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:

S #	1	2	3	4	5
Cookies	23	24	22	22	24
Brownies	32	29	32	28	31
Cupcakes	11	16	13	12	15

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

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

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	7
Pepperoni	4	5	3	5	6	3	6
Sausage	4	3	2	3	6	2	5
Ham	2	6	4	2	5	6	2

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

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