



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  |
|-----------------|----|----|----|----|----|----|
| <b>Cookies</b>  | 39 | 42 | 39 | 39 | 41 | 38 |
| <b>Brownies</b> | 41 | 42 | 41 | 38 | 42 | 41 |
| <b>Cupcakes</b> | 41 | 41 | 38 | 38 | 39 | 40 |

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

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- 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  |
|-----------------|----|----|----|----|----|----|----|----|
| <b>minnows</b>  | 31 | 28 | 28 | 30 | 31 | 32 | 32 | 29 |
| <b>goldfish</b> | 15 | 11 | 14 | 11 | 14 | 14 | 15 | 16 |
| <b>sunfish</b>  | 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?

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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 |
|------------------|---|---|---|---|---|---|
| <b>Pepperoni</b> | 6 | 5 | 4 | 5 | 2 | 6 |
| <b>Sausage</b>   | 3 | 3 | 3 | 5 | 6 | 6 |
| <b>Ham</b>       | 2 | 6 | 3 | 6 | 5 | 6 |

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

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- 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  | 39 | 42 | 39 | 39 | 41 | 38 |
| Brownies | 41 | 42 | 41 | 38 | 42 | 41 |
| Cupcakes | 41 | 41 | 38 | 38 | 39 | 40 |

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) 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?

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

- 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 | 6 | 5 | 4 | 5 | 2 | 6 |
| Sausage   | 3 | 3 | 3 | 5 | 6 | 6 |
| Ham       | 2 | 6 | 3 | 6 | 5 | 6 |

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.**