

Name: \_\_\_\_\_ Date: \_\_\_\_\_

## Answer Key: Messy Maps and Secret Symbols: A 1st Grade Data Detective Quiz

Moving beyond simple counting to help students evaluate if data is missing, broken, or plain wrong in complex classroom scenarios.

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**1. The lunch lady counts 10 apples, but 5 apples are actually plastic toys. If you use her count to buy lunch, what is the problem with her data?**

**Answer:** B) The data is not accurate

Accuracy means the data matches real life. Counting toys as real food makes the data incorrect.

**2. If a chart about favorite pets only asks people who own dogs, the data is fair for all pets.**

**Answer:** B) False

This data is biased because it ignores people who like cats or fish, making it an unfair representation.

**3. Leo wants to know the best playground slide. He asks a bird, a squirrel, and a rock. This data is \_\_\_\_\_ because they cannot slide.**

**Answer:** B) Useless

Data must come from sources that make sense. Asking a rock about sliding does not give helpful information.

**4. A weather app says it is snowing, but you look outside and see a bright sun. What should you do with the app's data?**

**Answer:** C) Evaluate why the data is wrong

Evaluating data means checking if it matches what is actually happening before you use it.

**5. A graph with no title or labels is still easy for everyone to understand.**

**Answer:** B) False

Without labels or a title, we don't know what the numbers represent, making the data unorganized.

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**6. Sarah finds two different lists of how many teeth 1st graders lose. List A says 20. List B says 5. Why should she check both?**

**Answer:** C) To look for labels and sources

When data sources disagree, you must analyze where they came from to see which one is more reliable.

**7. If you leave your science data outside in the rain and the ink washes away, you have \_\_\_\_\_ your data.**

**Answer:** C) Lost

Managing data includes keeping it safe so it isn't destroyed or lost.

**8. Data can be used to solve a problem, like finding the best time to go to the library.**

**Answer:** A) True

Using data helps us make smart decisions, like picking a time when the library is not too crowded.

**9. You see a chart that says 'Favorite Fruits,' but there are no pictures of fruit, only numbers. What is missing?**

**Answer:** A) The name of the fruit

Data needs categories or labels so we know what the numbers are actually measuring.

**10. A person who checks if information is true and organizes it nicely is acting like a \_\_\_\_\_ detective.**

**Answer:** B) Data

A data detective investigates information to make sure it is accurate and helpful.