

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.

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.

Name: _____

Date: _____

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.