Name: _____   **Date: _____**

Answer Key: Tiny Detectives: The Pre-K Secret to Reading Hidden Patterns

Identifying trends in a bird sanctuary or toy bin helps young scholars predict what comes next using real-world sorting and critical observation skills.

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1. A scientist counts 10 blue birds and 0 red birds today. If this trend stays the same, what will she likely see tomorrow?

Answer: B) Only blue birds

> Evaluating past data allows us to predict future events; if only blue birds have appeared, they are the most likely to return.

2. If we want to know which snack is the favorite, we should ask only one person instead of the whole class.

Answer: B) False

> Data literacy involves evaluating the sample size; one person is not enough data to represent the whole group's preference.

3. To find out if it is cold outside, the best tool to use is a ___.

Answer: B) Thermometer

> Selecting the right tool is part of finding reliable data; a thermometer provides accurate temperature information.

4. You see a picture of a sun on a weather map, but you look outside and see snow. Is the map data reliable right now?

Answer: B) No, because it doesn't match what is happening

> Data literacy involves evaluation; when data contradicts observed reality, we must question its accuracy.

5. Putting all the square blocks in one box and round blocks in another is a way to manage data.

Answer: A) True

> Categorization and sorting are fundamental aspects of managing and organizing data for later use.

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6. A chart shows that 5 kids like apples and 1 kid likes pears. The chart helps us ____ that most kids like apples.

Answer: C) Understand

Using data involves interpreting visualizations to reach a conclusion about a specific group.

7. If you want to tell a story about a forest, which data source should you avoid?

Answer: C) A video of a race car

Finding data requires evaluating the relevance of the source to the topic being studied.

8. If a robot only has data about how to walk on grass, it might ____ if it tries to walk on ice.

Answer: C) Slip

This scenario requires evaluating the limitations of a dataset; incomplete data can lead to unsuccessful outcomes.

9. If you find a drawing of a dragon, that is proof that real dragons live at the zoo.

Answer: B) False

Critical data literacy involves distinguishing between fictional representations and factual data sources.

10. A teacher sees that all the paint brushes are dry. What piece of data is missing?

Answer: B) Who used the paint last

Analyzing a situation often requires identifying missing variables (data points) to solve a problem or evaluate responsibility.