

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

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

## Answer Key: Data Detective Mission: Lead the Pre-K Information Expedition

Can your students build a story using only patterns? Synthesize symbols and colors to architect a digital map of the classroom.

**1. If we want to show a robot how many red apples and green pears we have, which tool helps us organize this best?**

**Answer:** B) A sorting tray with labels

Sorting and labeling is a fundamental data management skill that helps us organize information for others to understand.

**2. True or False: We can use stickers to represent real-life objects, like using a star to mean 'one sunny day' on our weather chart.**

**Answer:** A) True

Using symbols to represent objects is a high-level abstraction skill necessary for data modeling and literacy.

**3. When we look at our snack chart and see 10 crackers but only 2 juice boxes, we are \_\_\_\_\_ the information to see what we need more of.**

**Answer:** B) Comparing

Comparing data points allows students to evaluate differences and make decisions based on the information provided.

**4. If you are drawing a map of the playground and want to show where the swings are, which symbol makes the most sense to use?**

**Answer:** C) A small U-shape like a swing seat

Choosing relevant symbols to represent data points demonstrates an understanding of how data must be clear and accurate to be useful.

**5. True or False: If a friend tells you it is snowing outside, but you see the sun and feel the heat, their 'data' is not reliable right now.**

**Answer:** A) True

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Evaluating data involves comparing reports to actual observations to determine truthfulness and reliability.

**6. To remember which cubby belongs to which student, we use \_\_\_\_\_ with names or pictures so we don't lose our things.**

**Answer:** B) Labels

Labeling is a core component of managing data, ensuring that information is categorized correctly for future use.

**7. We want to know which fruit the class likes best. What is the smartest first step to get this data?**

**Answer:** A) Ask every friend to pick one favorite

Collecting data through systematic inquiry (surveys) is how we find the information needed to answer questions.

**8. If we see a pattern of Red-Blue-Red-Blue on a block tower, we can use that data to \_\_\_\_\_ that the next block will be Red.**

**Answer:** B) Predict

Predicting based on existing data patterns is a high-level synthesis skill in early data literacy.

**9. True or False: A chart that has messy scribbles all over the numbers is still a good way to share information with the principal.**

**Answer:** B) False

Data integrity and presentation quality are essential; if data is obscured or messy, it loses its communicative value.

**10. Your teacher asks you to 'manage' the library. What is the most 'data-smart' way to group the books?**

**Answer:** C) Put animal books in one bin and plant books in another

Categorization is a critical data management behavior that allows for efficient retrieval and use of information.