

Name: _____ Date: _____

Data Detective: Do You Have the Clues? 2nd Grade Quiz

Challenge your students to synthesize raw observations into smart solutions through complex sorting and predictive modeling scenarios.

1. A library wants to know which animal books are most popular. They see that 20 kids checked out Shark books, but only 2 kids checked out Zebra books. What is the smartest thing for the library to do next?

- A. Buy more Zebra books to make them more popular.
- B. Buy more Shark books because the data shows higher interest.
- C. Stop buying books about all animals forever.
- D. Give away the Shark books so the Zebras aren't lonely.

2. If you want to find out the most common eye color in your classroom, looking at a photo of a different school's playground is a reliable way to get that data.

- A. True
- B. False

3. Imagine you are building a 'Fruit Robot.' To teach the robot to recognize a strawberry, which set of data would be the most helpful to give it?

- A. Photos of bananas, lemons, and pineapples.
- B. A list of colors found in a rainbow.
- C. Pictures of many different strawberries from different angles.
- D. A story about a farmer who grows apples.

4. You are tracking how many birds visit two different bird feeders. Feeder A is in a noisy parking lot. Feeder B is in a quiet garden. After one hour, Feeder B has 15 birds and Feeder A has 0. Why is this data useful?

- A. It proves that all birds are afraid of cars.
- B. It helps us predict that birds prefer quiet places for their habitats.
- C. It shows that Feeder A is broken and should be thrown away.
- D. It tells us that there are exactly 15 birds in the whole world.

5. A weather app shows a sun icon for Monday, Tuesday, and Wednesday. On Thursday, it shows a rain cloud. To prepare for school on Thursday, what should you use your data literacy skills to decide?

- A. Wear sunglasses and a heavy winter coat.
- B. Bring an umbrella because the data predicts rain.
- C. Stay home because the sun is gone forever.
- D. Ignore the app because it was sunny before.

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6. When organizing a 'Digital Toy Box' on a computer, it is better to label the folders 'Stuff 1' and 'Stuff 2' instead of 'Puzzles' and 'Action Figures.'

- A. True
- B. False

7. You want to know if 2nd graders like chocolate or vanilla cake more. You ask 500 adults at a grocery store. Is this 'Good Data' or 'Bad Data' for your specific question?

- A. Good data, because 500 is a very big number.
- B. Bad data, because you asked adults instead of 2nd graders.
- C. Good data, because adults buy the cakes.
- D. Bad data, because you should have asked about pie instead.

8. If you have a list of every student's birthday in your class, what is the best way to see which month has the MOST birthdays quickly?

- A. Read the list out loud as fast as you can.
- B. Close your eyes and point to a random month.
- C. Put the names into a bar chart organized by month.
- D. Ask the teacher to guess which month it is.

9. A scientist finds two different websites that say the exact same thing about how volcanoes work. This makes the information more likely to be accurate.

- A. True
- B. False

10. You keep a 'Garden Journal.' You notice that every time you water the plants once a week, they turn brown. When you water them three times a week, they stay green. What is the trend?

- A. The plants hate the color green.
- B. The amount of water changes the health of the plant.
- C. Gardening is too hard and you should stop.
- D. Plants turn brown because of the wind.