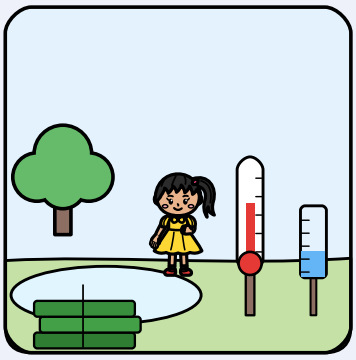
Grandpa's Weather Journal

Name: _____ Date: _____



While helping clean out the garage, Amara found a stack of faded green notebooks tied with string. Every page was covered in her grandfather's neat handwriting: dates, temperatures, rainfall amounts and short notes like "First robin today" or "Lake frozen solid."

"I kept a weather journal for forty years," Grandpa said, wiping dust off a cover. "Every morning at seven, I checked the thermometer and the rain gauge before breakfast."

Amara flipped through the pages and noticed something. In the oldest notebooks, "Lake frozen solid" appeared almost every December. In the newer ones, it appeared only a few times, and usually not until January.

"Grandpa, did you see this?" she asked. He put on his reading glasses and studied the pages for a long time. "I never compared the years side by side," he admitted. "You found a pattern I missed."

Amara turned the notebooks into her science fair project. She made a graph showing the date the lake froze each winter, and the line slowly moved later and later. Her teacher explained that scientists use records like Grandpa's, called data, to study how climates change over many years.

Amara's project won a blue ribbon. But the best part came afterward, when Grandpa handed her a brand-new green notebook. "Your turn," he said.

1 WHAT? **What did Amara find in the garage?**

- old weather notebooks
- a broken thermometer
- a science fair ribbon

2 WHAT? **What pattern did Amara notice?**

- The lake froze later in the newer years.
- It rained more on Mondays.
- Robins came earlier.

3 WORD: **In the story, "data" means...**

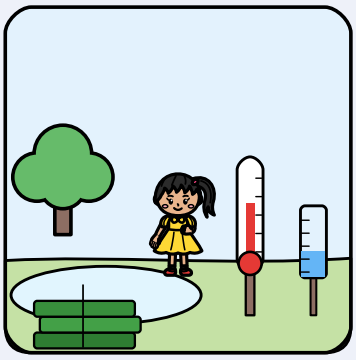
- facts and numbers that are recorded
- a kind of notebook
- a weather report on TV

4 WHY? **Why did Grandpa give Amara a new notebook at the end?**

_____

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Answer Key



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- a weather report on TV

4 WHY? **Why did Grandpa give Amara a new notebook at the end?**

He wanted her to keep her own weather journal, like he did.