Name _____

Data Detectives Answer Key

1. Grapes has 3 tally marks, so its frequency should be 3.
2. The total should be 18, not 19.
3. Only 15 observations are recorded. One observation is missing from the table.
4. No error. All tallies, frequencies, and the total are correct.
5. No error. All tallies, frequencies, and the total are correct.
6. The total should be 22, not 21.

Teacher's Guide

- Have students compare each tally count with its frequency before checking the total.
- Remind students to count each complete tally group as 5.
- For support, let students write the numerical value beside each tally set before searching for the mistake.
- For additional support, have students check tallies, frequencies, and totals in that order.
- For engagement, let students work as data detectives and explain what evidence revealed each mistake.
- For a challenge, ask students to state whether each mistake involves a tally, frequency, missing observation, or total.
- Extend the activity by having students create a small frequency table containing one mistake for a partner to find.

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