**Do You Understand?**

1. **Vocabulary** Did you collect numerical or categorical data with the Solve and Share survey? Explain.

2. **Be Precise** How could you improve this survey question?
   How long do you brush your teeth? Explain.

3. **Generalize** Based on the data on the previous page, what is a reasonable prediction for the number of pets a student may have?

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**Independent Practice**

**In 6–8, use the frequency table.**

6. How many people responded to the survey?

7. How many people own more than 7 CDs?

8. **Generalize** What is a reasonable prediction for the number of CDs a person may have?

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**Do You Know How?**

In 4 and 5, use the data set to answer the questions.

Scores on yesterday's science quiz: 17, 19, 15, 17, 16, 18, 18, 20, 17, 16, 18, 17, 19, 17, 16

4. Make a frequency table of the data.

**Science Quiz Scores**

<table>
<thead>
<tr>
<th>Score</th>
<th>Number of Students</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

5. Which score did more students get than any other score?

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**Number of CDs Owned**

<table>
<thead>
<tr>
<th>Number of CDs</th>
<th>Number of People</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 CDs</td>
<td>5</td>
</tr>
<tr>
<td>7 CDs</td>
<td>6</td>
</tr>
<tr>
<td>9 CDs</td>
<td>12</td>
</tr>
<tr>
<td>10 CDs</td>
<td>8</td>
</tr>
</tbody>
</table>
Miles run in the Field Day distance run: $\frac{3}{4}$, 1, $\frac{1}{2}$, $1\frac{1}{2}$, $\frac{3}{4}$, $\frac{1}{2}$, 1, $\frac{3}{4}$, $\frac{1}{2}$, $1\frac{1}{4}$, $\frac{3}{4}$, $\frac{1}{2}$, 1, $\frac{3}{4}$, $\frac{1}{2}$, $1\frac{1}{4}$, $\frac{3}{4}$, $\frac{1}{2}$, 1

9. **Be Precise** Make a frequency table of the data.

10. Which distance did more students run than any other distance?

11. What is the greatest distance a student ran?

12. How many students ran less than a mile?

13. **Higher Order Thinking** What percent of the students ran a mile or more?

14. **Vocabulary** Were numerical or categorical data collected? Explain.

<table>
<thead>
<tr>
<th>Number of Miles Run</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Students</td>
</tr>
</tbody>
</table>

15. **Reasoning** Greg spends a total of 8 hours at school each day. Part of Greg’s time at school is spent practicing basketball and doing homework. If Greg spends $\frac{3}{4}$ of his school day in class, how many hours is this? Explain your solution.

16. **Make Sense and Persevere** Take a survey. Write a survey question and collect data. Organize your data in a frequency table and make 2 or 3 statements about what the results show. Then, make a prediction about the data.

17. Which of the following are good survey questions? Choose all that apply.

- How long do you spend on homework?
- How many minutes did you spend on homework last night?
- How many pints of water did you drink yesterday?
- Do you drink a lot of water?
- What time did you go to bed last night?

18. Which survey responses represent categorical data? Choose all that apply.

- car, truck, car, car, bike, truck, bike
- roses, daffodils, irises, roses, roses, daffodils, tulips, roses
- 2 h, 3 h, 2 h, 1.5 h, 0.5 h, 2 h, 2 h, 1.5 h, 1 h, 2.5 h
- 3 pt, 5 pt, 4 pt, 3 pt, 2 pt, 2 pt, 4 pt, 1 pt, 2 pt, 1.5 pt
- Ages: 9, 10, 11, 9, 10, 9, 8, 9, 10, 11

**Assessment**

**ISTEP+ Ready**