7 Data Analysis and Displays

"Wow. The number of minutes I can dog paddle is growing like crazy!"

"Please hold still. I am trying to find the mean of 6, 8, and 10 by dividing their sum into three equal piles."
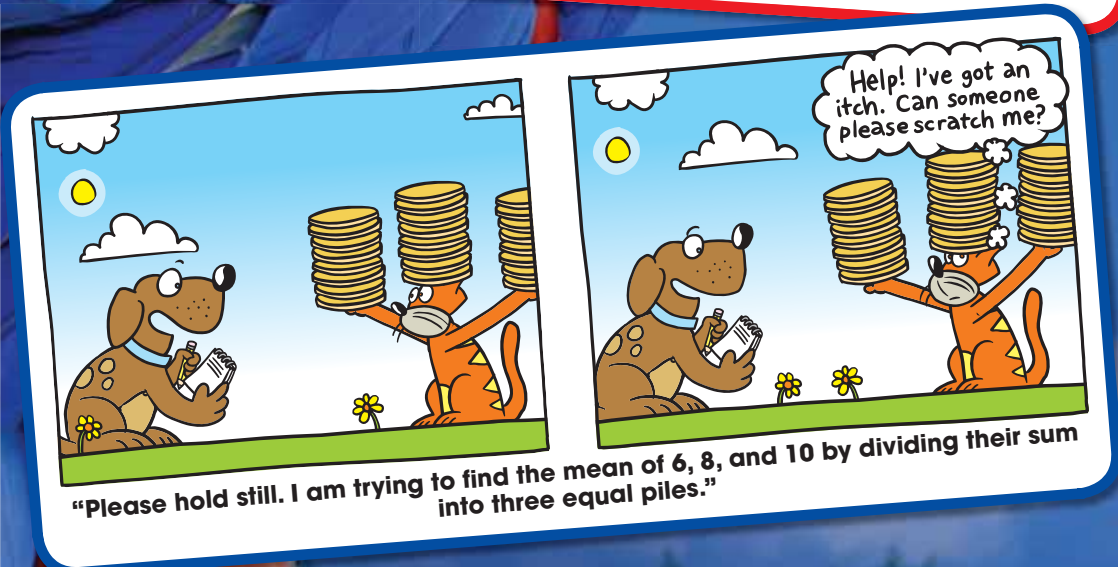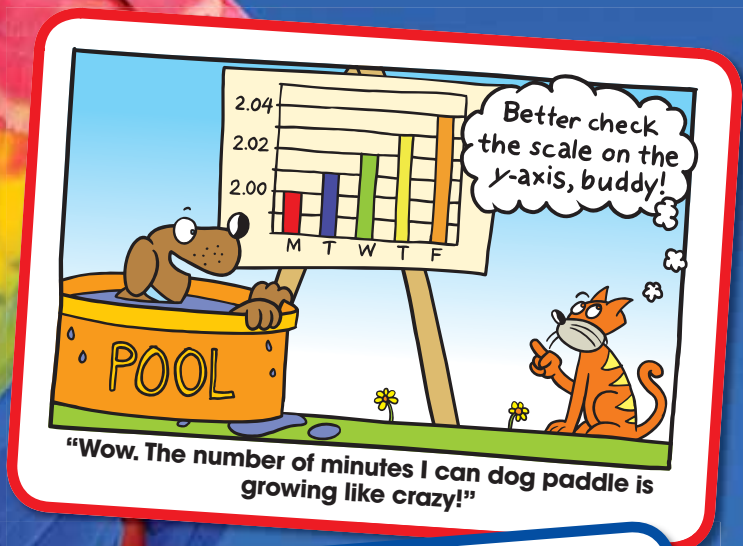
What You Learned Before

● Displaying Data

Example 1 The table shows the results of a survey. Display the data in a circle graph.

Class Trip Location	Water park	Museum	Zoo	Other
Students	25	11	5	4

A total of 45 students took the survey.

Water park:

$$\frac{25}{45} \cdot 360° = 200°$$

Museum:

$$\frac{11}{45} \cdot 360° = 88°$$

Zoo:

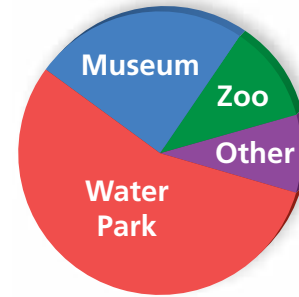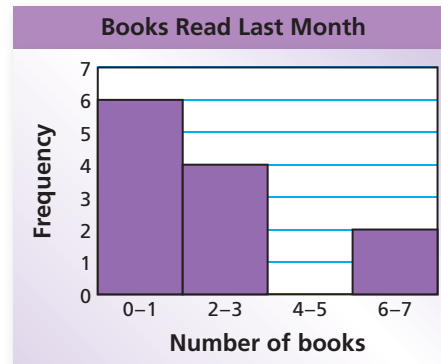$$\frac{5}{45} \cdot 360° = 40°$$

Other:

$$\frac{4}{45} \cdot 360° = 32°$$

Class Trip Locations

Example 2 The frequency table shows the number of books that 12 people read last month. Display the data in a histogram.

Books Read Last Month	Frequency
0–1	6
2–3	4
4–5	0
6–7	2

Try It Yourself

1. Conduct a survey to determine the after-school activities of students in your class. Display the results in a circle graph.

2. Conduct a survey to determine the number of pets owned by students in your class. Display the results in a histogram.