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Chapter Review

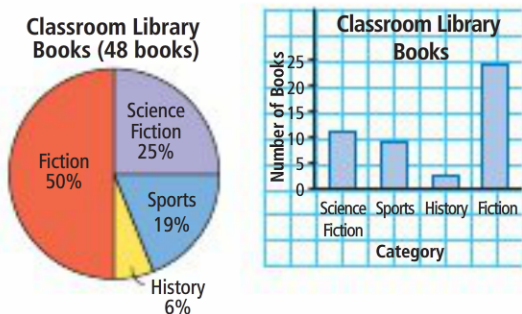
Key Words

For #1 to #5, choose the letter that best matches each description.

1. best for comparing categories using percents
 2. compares one set of data using horizontal or vertical bars
 3. uses symbols to represent large quantities of data
 4. shows changes in data over time
 5. compares two sets of data across categories
- A** bar graph
B double bar graph
C line graph
D interval
E circle graph
F pictograph

1.1 Advantages and Disadvantages of Different Graphs, pages 6–17

6. The number of books in a classroom library is shown on these graphs.



- a) Which graph helps you decide how many more sports books than history books there are? Explain. Could the other graph help you answer the question? Explain.
- b) Which graph would most help you decide how to spend \$1000 on new books based on what the class has? How much money should be spent on each category? Show your work.

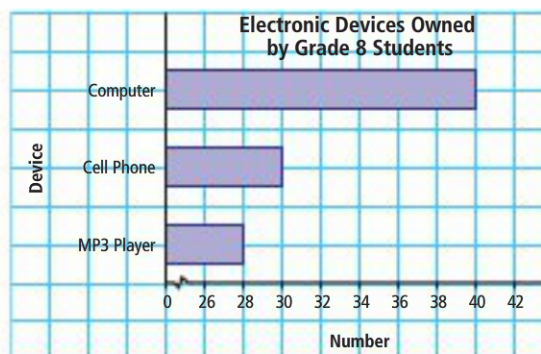
7. Michelle recorded data about how she spends time on a typical Saturday.

Activity	Time (h)
Chores	1.5
Eating	2
Homework	2.5
Sleep	9
Friends	3
Sports	4
TV	2
Total	24

- a) List as many different ways to display the data appropriately as you can.
 - b) Choose and draw one type of graph to show the data.
 - c) State an advantage of the graph that you chose. State a disadvantage of one type of graph that you did not choose.
8. Describe a situation in which you would use each of the following to display data:
 - a) bar graph
 - b) double bar graph
 - c) circle graph
 - d) line graph

1.2 Misrepresenting Data, pages 18–27

9. The graph shows the number of electronic devices that grade 8 students own.

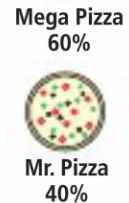


- a) The graph shows that there are more computers than MP3 players and cell phones added together. Is this true? Describe how the graph is misleading.

- b) Draw an accurate graph.
- c) What conclusions can you make from your new graph?

10. The results of a pizza taste test showed that Mega Pizza was the favourite.

- a) How is this graph misleading?
- b) Draw a new graph to represent the data more accurately.



11. Greg's company makes 2500 school lockers each day. Some lockers are rejected if they do not meet standards. The table shows the number of rejected lockers.

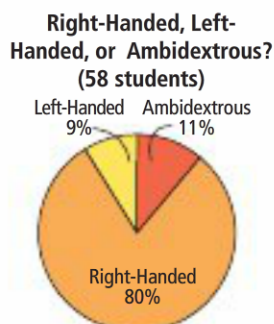
Day	Number Rejected
Monday	45
Tuesday	40
Wednesday	25
Thursday	30
Friday	35
Total	175

- a) Greg wants to exaggerate the number of lockers rejected on Monday. Draw a graph to create this impression.
- b) Make a new graph to represent the data accurately.
- c) Explain how the two graphs are different.

1.3 Critiquing Data Presentation, pages 28–35

12. The graph represents data about which hand grade 8 students use to write.

- a) What conclusions can you make from this graph?
- b) Is the circle graph an appropriate way to present the data? Explain.



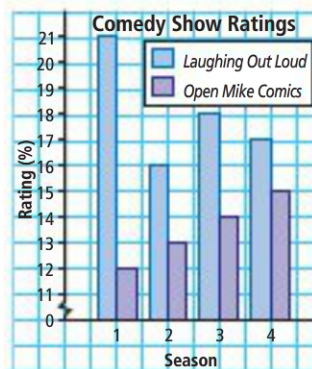
- c) What other way might you display the data? List an advantage of the graph you chose.

Literacy Link

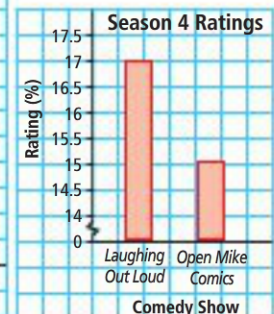
Someone who is *ambidextrous* is able to use both hands equally well.

13. Two television comedy shows are competing for sponsorship from an advertiser. The ratings for four seasons are shown in the table. The ratings are a percent of the total viewing audience.

Show	% Ratings			
	Season 1	Season 2	Season 3	Season 4
<i>Laughing Out Loud</i>	21	16	18	17
<i>Open Mike Comics</i>	12	13	14	15



Graph A



Graph B

- a) What rating information does each graph provide?
- b) Suggest a catchy new title for each graph. Explain why you recommend each title.
- c) Which graph do you think was created by the producer of *Open Mike Comics*? Explain.
- d) Which graph do you think was created by the producer of *Laughing Out Loud*? Explain.