

1 Chapter Review

Key Words

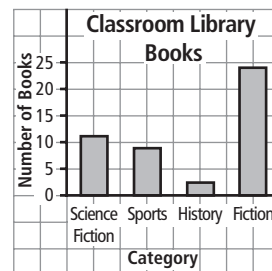
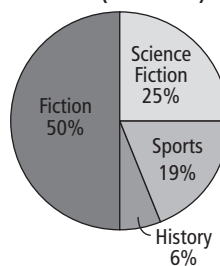
For #1 to #5, write the number that matches the description.

- | | |
|--|------------------------|
| 1. compares categories using percents | _____ bar graph |
| 2. compares 1 kind of data using bars | _____ double bar graph |
| 3. uses symbols to show data in units | _____ line graph |
| 4. shows changes in data over time | _____ circle graph |
| 5. compares 2 sets of data in different categories | _____ pictograph |

1.1 Advantages and Disadvantages of Different Graphs, pages 6–19

6. The graphs both show the number of books in a classroom library.

Classroom Library Books (48 books)



a) Which graph helps you find how many more sports books there are than history books?

b) Which graph helps you decide how to spend \$1000 on new books for the library? Give 1 reason for your answer.

c) How much money should be spent on each type of book? Show your work.

Fiction = 50% of \$1000
 = 0.50×1000

$50\% = 50 \div 100$
 $= 0.50$

= \$ _____

Sports

Science fiction = _____% $\times 1000$

= $0.\underline{\hspace{1cm}}$ $\times 1000$

= \$ _____

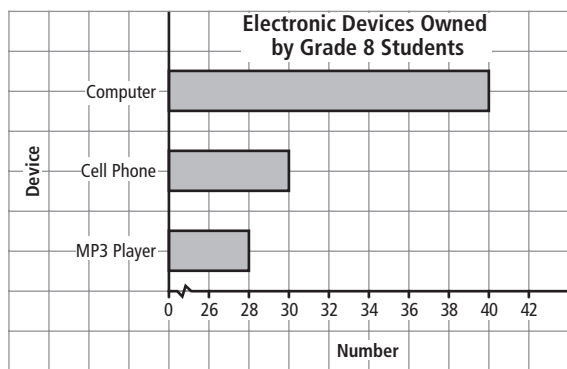
History

7. Describe a situation where you would use each type of graph.

- a) Bar graph _____
- b) Circle graph _____
- c) Double bar graph _____
- d) Line graph _____

1.2 Misrepresenting Data, pages 21–30

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



a) The graph shows that students own more computers than MP3 players and cell phones together. Is this true? Circle YES or NO.

b) How do you know?

Number of MP3 players + number of cell phones = _____ + _____ = _____	Number of computers = _____
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c) How could you change the graph to make it more accurate?

Name: _____

Date: _____

9. A company makes 2500 school lockers each day. Lockers are rejected if they are not made well. The table shows how many lockers were rejected during 1 week.

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

a) On which day were the most lockers rejected?

b) On which day were the least lockers rejected?

c) What is the difference between the day with the most rejections and the day with the least rejections?

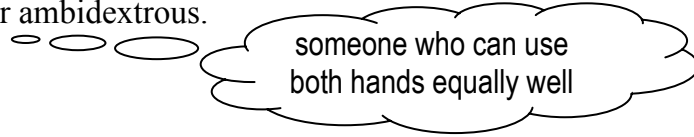
Difference means subtract.

d) Draw a misleading pictograph to exaggerate the number of lockers rejected on Monday.

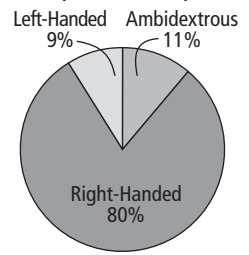
- Give the pictograph a title.
- List the days on the left side.
- Draw your symbol (picture) at the bottom of the graph.
Show how much each picture represents.
- Draw pictures to represent the number of lockers rejected each day.

1.3 Critiquing Data Presentation, pages 32–39

10. The circle graph shows what percent of the students are right-handed, left-handed, or ambidextrous.



Right-Handed, Left-Handed, or Ambidextrous? (58 students)



a) Write 2 things you can conclude from the graph.

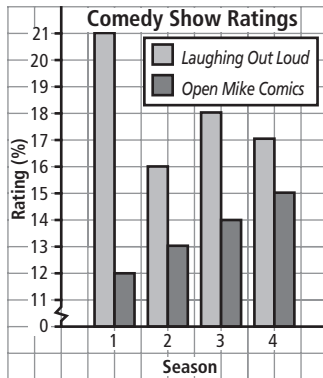
- _____
- _____

b) Why would you use a circle graph to show these data?

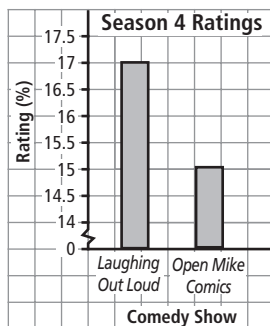
c) What other type of graph could you use to show these data? _____

Give 1 reason for your answer.

11. Two television comedy shows want advertisers to buy commercial time during their shows. The 2 graphs show the ratings for each comedy show.



Graph A



Graph B

a) What information about ratings does each graph show?

Graph A: _____

Graph B: _____

b) If you were going to buy commercial time to show your product, which show would you buy time for? Why?
