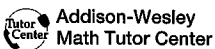


1.9 Exercises

FOR
EXTRA
HELP



Video Lectures
on CD

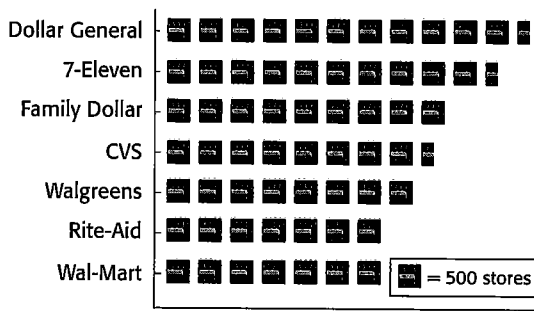


Interactmath.com

The following pictograph shows the number of retail stores for the seven companies with the greatest number of outlets. Use the pictograph to answer Exercises 1–6. See Example 1.

SOMETHING IN STORE

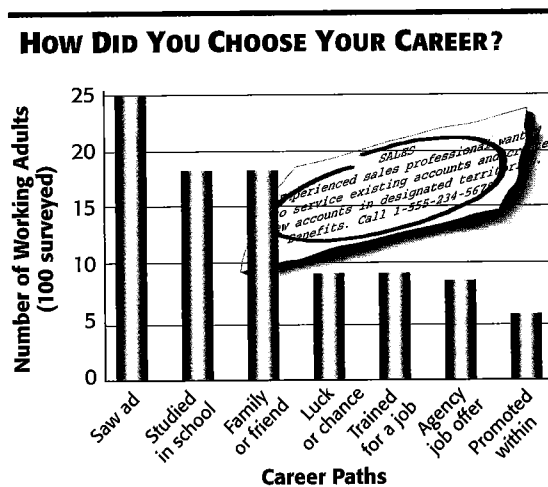
While Wal-Mart has the greatest amount of sales, it trails other chains in number of stores.



Source: T. D. Linx.

- Find the number of Family Dollar retail stores.
- Approximately how many retail stores does 7-Eleven have?
- Which company has the greatest number of retail stores?
- Which companies have the least number of retail stores?
- Dollar General has 7500 retail stores. How many more is this than Family Dollar?
- How many more retail stores does Walgreens have than Wal-Mart?

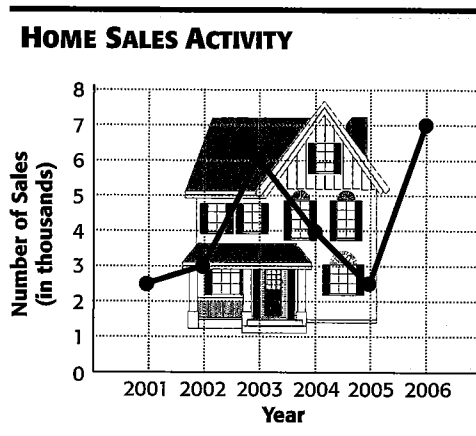
The following bar graph shows the results of a survey that was taken of 100 working adults to determine how they chose their careers. Use the bar graph to answer Exercises 7–12. See Example 2.



Source: Market Facts/TeleNation for Career Education Corporation.

7. How many people found their careers as a result of training for a job?
8. How many people found their careers because they studied for the career in school?
9. (a) Which career path was taken by the greatest number of people?
(b) How many people used this path?
10. (a) Which career path was taken by the least number of people?
(b) How many people used this path?
11. How many more people found their careers as a result of “Studied in school” than “Luck or chance”?
12. Find the total number of people who found their careers as a result of either “Studied in school” or “Trained for a job.”

A local real estate association collected home sales data for their area and prepared the following line graph. Remembering that the sales data is shown in thousands, use the line graph to answer Exercises 13–16. See Example 3.



13. Which year had the greatest number of home sales? How many sales were there?
14. Which two years had the least number of home sales? How many sales were there in each of those years?
15. Find the increase in the number of home sales from 2005 to 2006.
16. Find the decrease in the number of home sales from 2004 to 2005.
17. Give three possible explanations for the decrease in home sales in 2004.
18. Give three possible explanations for the increase in home sales in 2006.

RELATING CONCEPTS (EXERCISES 19–23) For Individual or Group Work

Getting a correct answer in mathematics always depends on following the order of operations. Insert grouping symbols (parentheses) so that each given expression evaluates to the given number. *Work Exercises 19–23 in order.*

19. $7 - 2 \cdot 3 - 6$; evaluate to 9

20. $4 + 2 \cdot 5 + 1$; evaluate to 36

21. $36 \div 3 \cdot 3 \cdot 4$; evaluate to 16

22. $56 \div 2 \cdot 2 \cdot 2 + \frac{0}{6}$; evaluate to 7

23. A fencing contractor is building 12 corrals like the one shown below for a rancher.

(a) Use the order of operations to write an expression for the amount of fencing needed for one corral.

(b) How many feet of fencing are needed for 12 corrals?

