

3 Bar Graphs

The Uptown Dance Studio gives lessons in dance. The bar graph shows the number of students in each of the classes.

A How many students are learning hip-hop dancing?

- Find the names at the bottom of each bar.

Find the hip-hop bar.

- Match the top of the bar to the number on the scale.

Follow the line from the top of the bar to the number scale—20.

So, 20 students are learning hip-hop dancing.

B Which class has 13 students?

- Find the number on the number scale.

The number scale counts by 2s, so 13 is halfway between 12 and 14.

- Match the number on the number scale to the bar.

Follow the space between 12 and 14 to the top of a bar.
Read the name at the bottom of the bar—folk dancing.

So, the folk dancing class has 13 students.

C How many more students take folk dancing than line dancing?

- Match the top of the bars to the number scale.

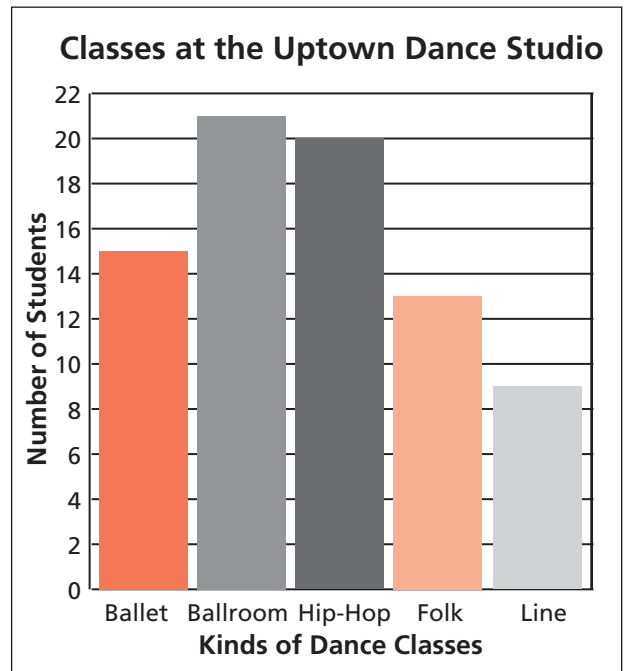
Match the top of the folk dancing bar to the number scale—13.

Match the top of the line dancing bar to the number scale—9.

- Find the difference.

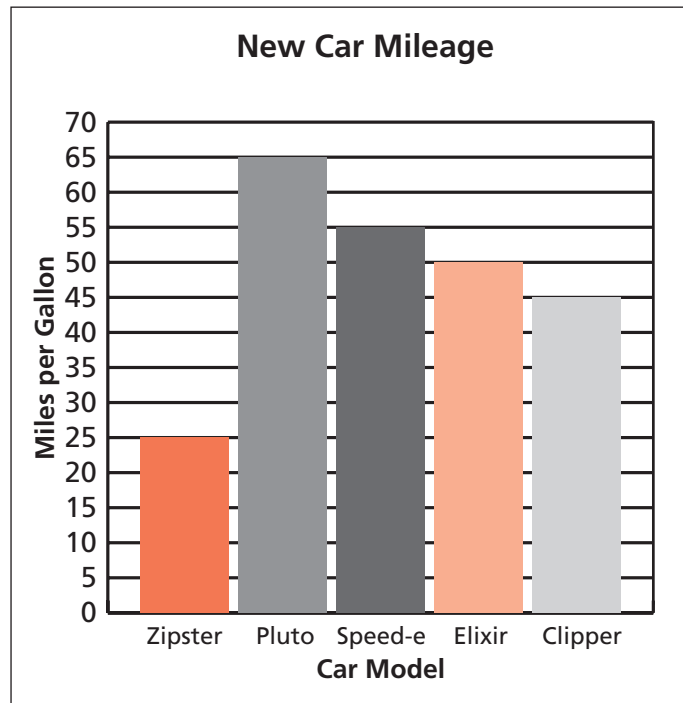
$$13 - 9 = 4$$

So, 4 more students take folk dancing than line dancing.



PRACTICE • Problem Solving

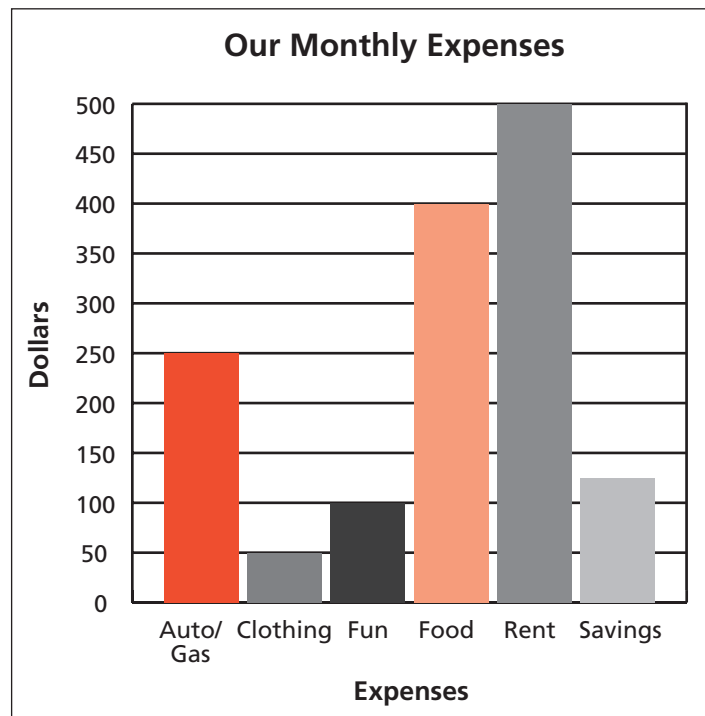
Apex Motor Company is testing new cars that use less gasoline than regular cars. The bar graph shows how many miles each car can travel on 1 gallon of gas.



Circle the correct answer choice.

- How far does the Speed-e travel on a gallon of gas?
A 50 miles C 57 miles
B 55 miles D 60 miles
- Which car can travel 65 miles on a gallon of gas?
A Clipper C Pluto
B Elixir D Zipster
- Which car travels the shortest distance on a gallon of gas?
A Clipper C Pluto
B Elixir D Zipster
- How much farther can the Clipper travel than the Zipster on a gallon of gas?
A 20 miles C 45 miles
B 25 miles D 70 miles

Alia and her husband made a bar graph to show how they spent their money each month.



5. How much money do Alia and her husband save each month?
- A** \$100 **C** \$150
B \$125 **D** \$250
6. Which monthly expense is \$100?
- A** Fun **C** Rent
B Clothing **D** Savings
7. How much more money do Alia and her husband pay for auto/gas than they save each month?
- A** \$50 **C** \$125
B \$100 **D** \$150
8. Which two monthly expenses total \$175?
- A** Auto/Gas and Clothing
B Clothing and Food
C Savings and Food
D Clothing and Savings

PRACTICE • Open-Ended Problems

The bar graph shows the number of votes each student got in the student council election.

Write the answer.

9. Who won the election?

10. Who got 25 fewer votes than Mike?

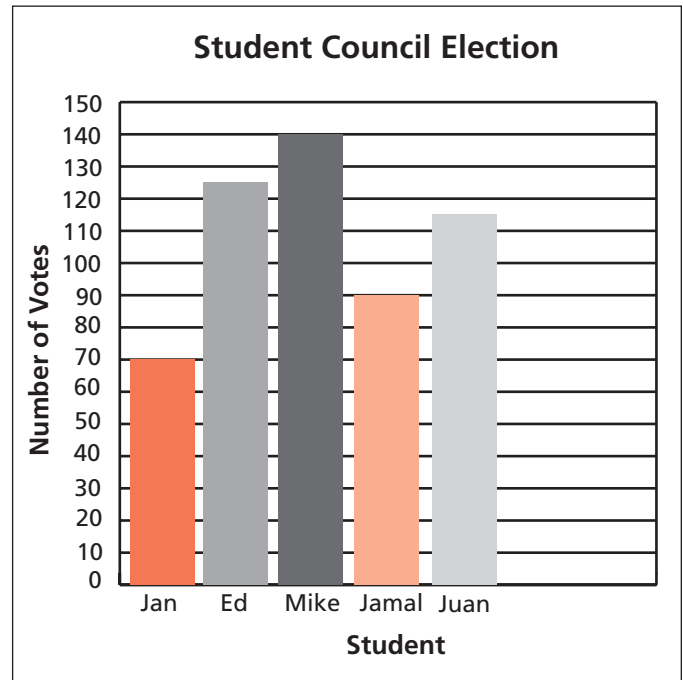
11. Who got twice as many votes as Jan?

12. Who got less than 100 votes?

_____ and _____

13. Artie got half as many votes as Jamal.
Draw a bar on the graph showing Artie's votes.

Make a plan. Show how you solve the problem step by step.



Write a sentence describing the number scale on this bar graph. Tell what made the number scale especially easy to use with the bars on this graph.

