

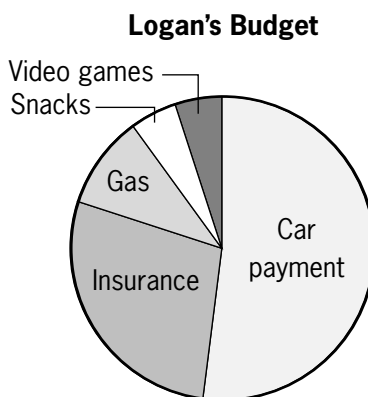
NAME _____

DATE _____

Module 19 Analyzing Data and Statistics
Lesson 2 Interpreting Graphs of Data

independent practice

Use the graph below to answer Questions 1–3.

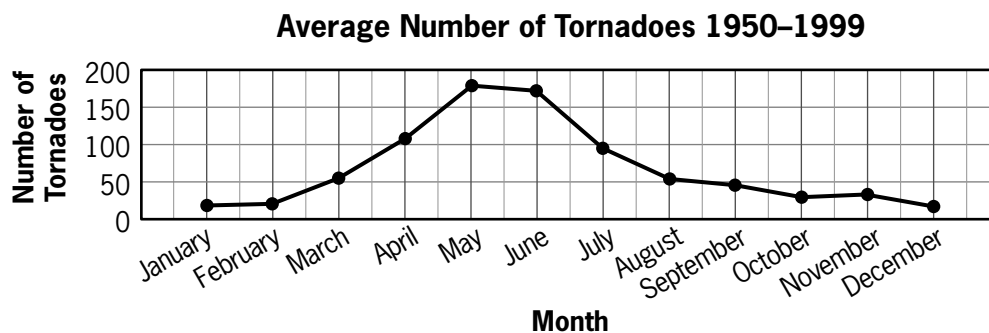


1. What single expense accounts for approximately 50% of Logan's budget?

2. On which two categories does Logan spend approximately the same amount?

3. About what percent of Logan's money was spent on either gas or insurance?

Use the graph below to answer Questions 4–6.



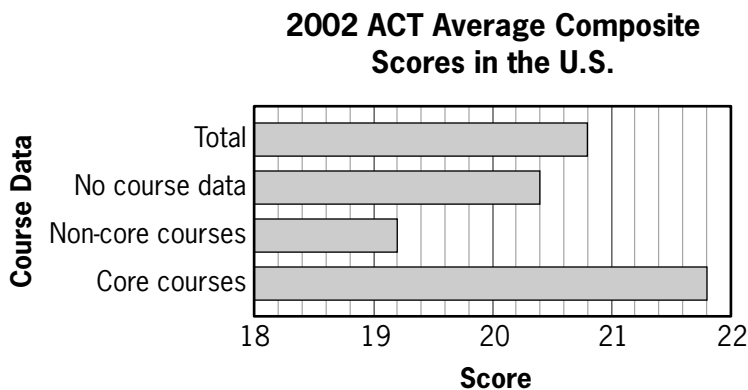
4. What trends are displayed on the graph?

5. Which month has the greatest number of tornadoes?

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6. Which season has the least number of tornadoes?

Use the graph below to answer Questions 7–9.

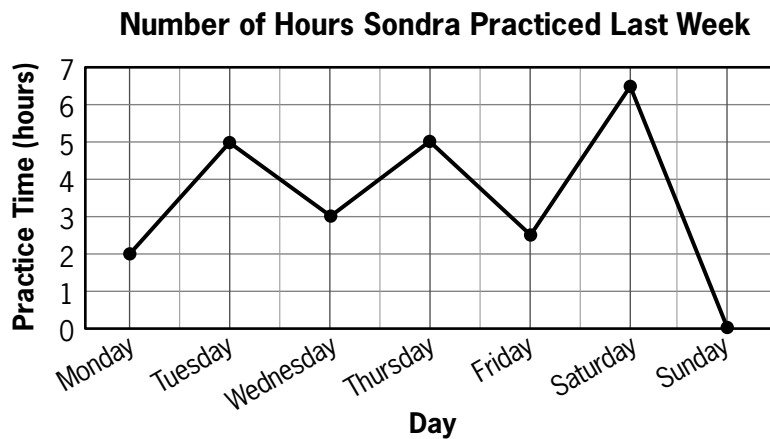


7. What category of students had the highest average ACT score?

8. What is the highest mean ACT score shown?

9. What is the difference in scores between core-course completers and non-core course completers?

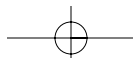
Use the graph below to answer Questions 10–12.



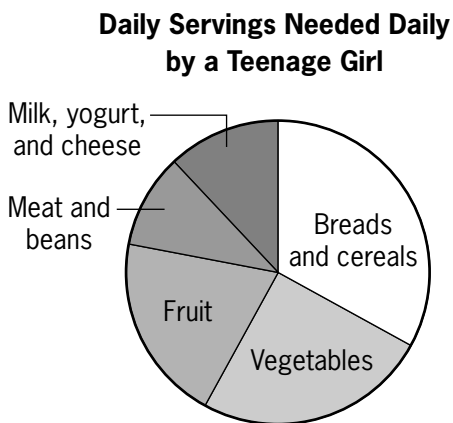
10. What was the greatest number of hours Sondra spent practicing in one day?

11. What days did Sondra practice the same number of hours?

12. What trend is shown by the line graph?



Use the graph below to answer Questions 13–15.

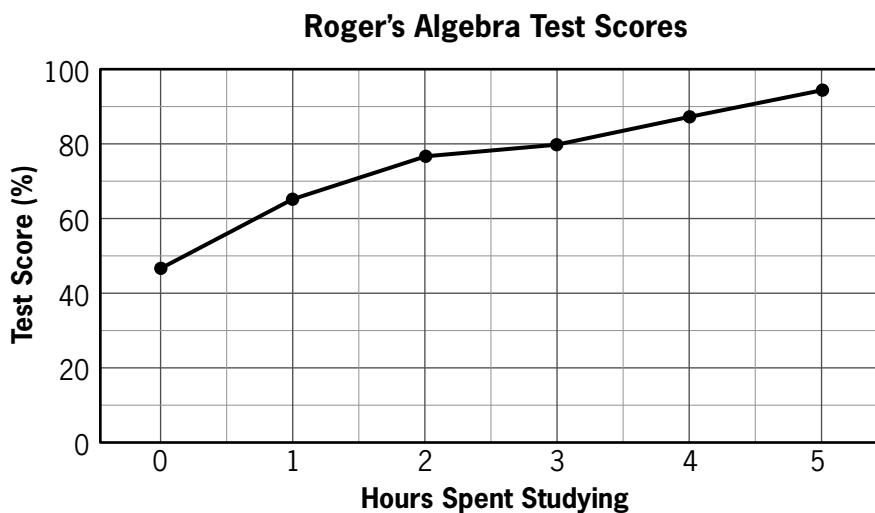


13. About what percent of a teenage girl's diet should be composed of fruits and vegetables?

14. From which food group should a teenaged girl eat the most servings?

15. How many servings should come from the bread and cereals group if there are 21 total servings in a day?

Use the graph below to answer Questions 16–18.



16. What is the trend of Roger's test scores?

17. What was Roger's test score when he studied three hours?

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18. How many hours should Roger study to make at least an 80%?

Journal

1. What information is provided by a pie chart, a line graph, and a bar graph?
2. Margie wants to study hair style length trends of the students at her school from 1993–2003. What kind of graph should she use and why?
3. Brady is looking for an after-school job. What kind of graph can he use to help determine the number of hours he is available for work and to help him budget his time? Why should he use this type of graph?
4. Shane and Susan are arguing over who has made the most A's from kindergarten to ninth grade. What kind of graph could they use to compare the number of A's for each year? Why would this be the best graph to use?
5. Explain how a pie chart could be used to show that Jim spends 75% of his income on his car.

Cumulative Review

Use the data set below for Problems 1–4.

Number of students in each class: 22, 28, 30, 18, 27, 28, 23, 28, 21, 24

1. Make a stem-and-leaf plot.
2. Find the mean. _____

3. Find the median. _____
4. Find the mode. _____

Use the data below to answer Problems 5–9. Round answers to the nearest tenth.

Number of moons of each planet in the solar system: 0, 0, 1, 2, 60, 31, 21, 8, 1

5. Make a stem-and-leaf plot.
6. Find the mean. _____

7. Find the median. _____
8. Find the mode. _____

9. Which value gives the best average for the set of data? Why?
10. Find a set of seven different numbers whose mean is 10.

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