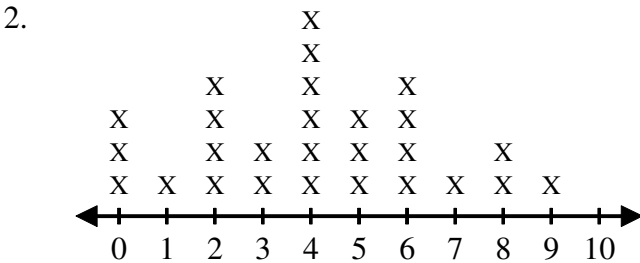


## Chapter 1 Practice Test #2

---

1. The list shows the final exam grades for Mr. Allen's math class.  
60, 64, 64, 60, 68, 72, 60, 76, 72, 80, 72, 84, 72, 80, 84  
Create a line plot of the data.



What are the landmarks for the data set above?

- maximum
  - minimum
  - range
  - mode(s)
  - median
3. a. The list shows the number of points scored by a basketball team in 15 games.  
65, 61, 96, 92, 84, 88, 87, 73, 89, 96, 65, 88, 81, 62, 97  
Create a stem-and-leaf plot of the data.  
b. Use your stem-and-leaf plot to find the maximum, minimum, mode(s), and range of the data set.
4. Amanda ran the 100-yard dash five times during gym class. Her times to the nearest second were: 29, 24, 17, 35, and 21.  
a. What is Amanda's mean time, to the nearest tenth of a second?  
b. What is Amanda's median time?
5. Serena works in a college admissions office. She took a sample of the salaries philosophy majors earned after they graduated in order to find the amount a prospective student can expect to make if they major in philosophy. However, one philosophy major became a professional basketball player and earns much more than the others in her survey. Which measure of central tendency should Serena use: the mean, or the median? Why?

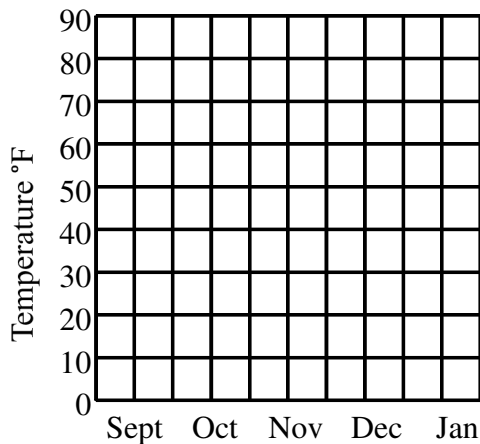
## Chapter 1 Practice Test #2

---

6. Suppose you are dealt a 1, a 6, an 11, a 12, and a 14 in a game of *Landmark Shark*. Which landmark, the range, median, or mode, will show you the highest score for your hand?
7. Ms. Lanza's class kept a record of the highest and lowest temperatures in each of five months.

Monthly Highest and Lowest Temperatures ( °F )					
	Sept	Oct	Nov	Dec	Jan
Highest	81	67	57	47	37
Lowest	44	36	27	7	14
Range	37	31	30	40	23

- a. Draw the double-line graph showing the highest and lowest temperatures for each of the five months. Then use the table and the graph to answer the questions that follow.



- b. What was the lowest temperature recorded in the five months?
- c. What was the range between the highest and lowest temperatures for January?
- d. (i) Which month had the greatest range between the highest and lowest temperatures?  
(ii) What was the range?

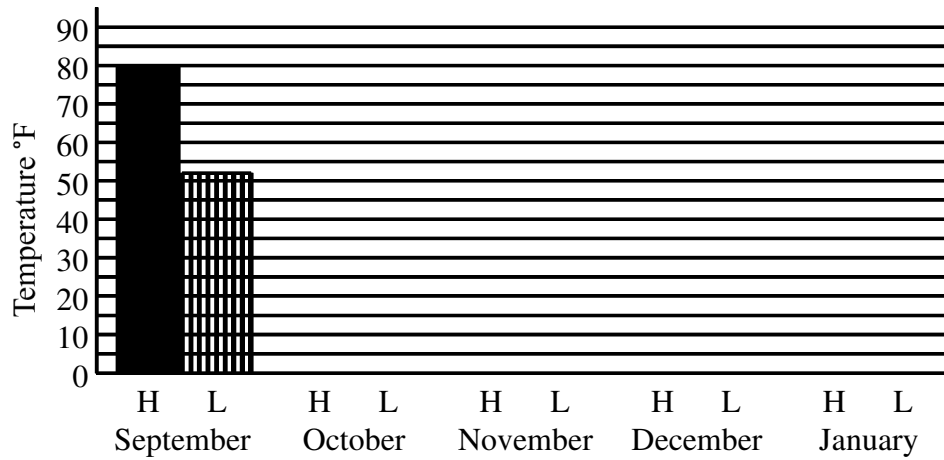
## Chapter 1 Practice Test #2

---

8. Ms. Lanza's class kept a record of the highest and lowest temperatures in each of five months.

Monthly Highest and Lowest Temperatures ( °F )					
	Sept	Oct	Nov	Dec	Jan
Highest	80	66	56	46	36
Lowest	52	44	35	15	22
Range	28	22	21	31	14

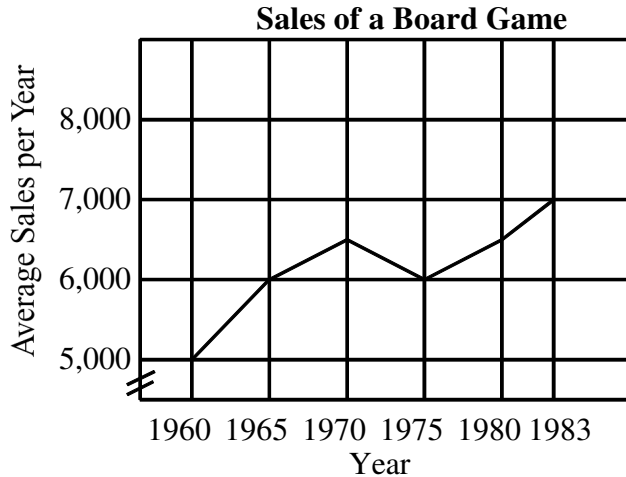
Complete the following bar graph showing the highest and lowest temperatures for each of the five months.



## Chapter 1 Practice Test #2

---

9. Use the graph given below to answer the following questions.



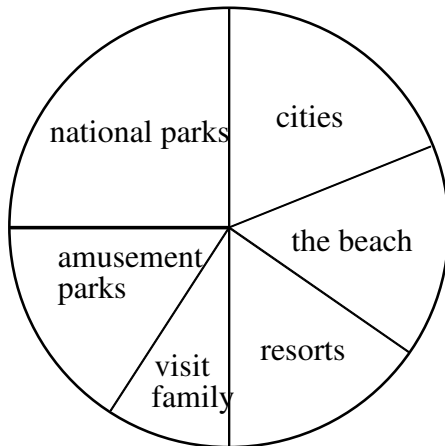
- By about how much did sales of the board game increase from 1960 to 1983?
- In which year were sales at their highest?
- In which 5-year period did sales drop?
- During which of the following periods was the increase in the sales of the board game the greatest? Choose the best answer.
  - 1960-1965    • 1965-1970    • 1970-1975    • 1975-1980

## Chapter 1 Practice Test #2

---

10. The circle graph shows the results of a recent survey of 3,000 families of a country. It shows the various vacation destinations the families would like to visit. Use the Percent Circle to find the approximate percent for each vacation destination.

### Vacation Destinations

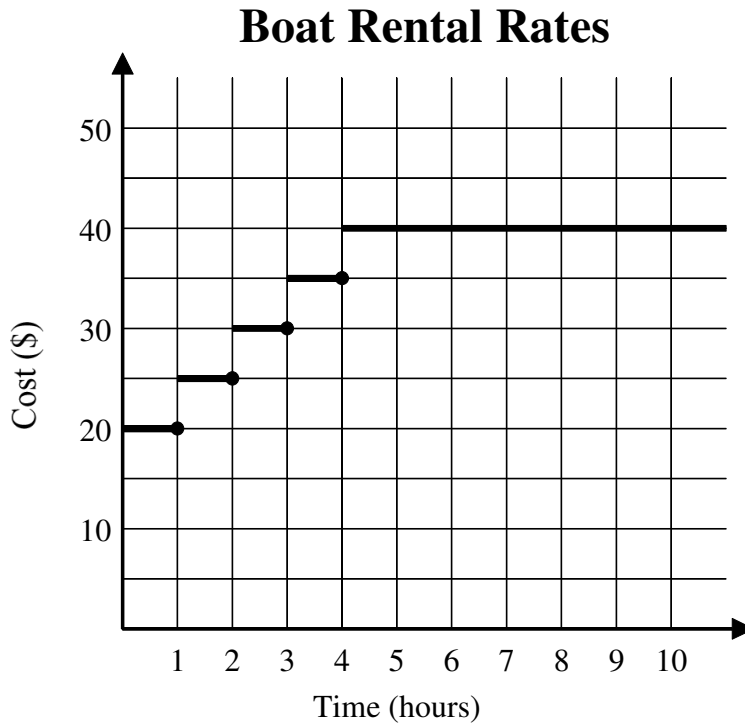


11. The length of a rectangle is 4 cm and the width is 7 cm. What is the perimeter of the rectangle? What is the area of the rectangle?
12. Write 3 names for 30. Each expression must use a 7 and a 9.

## Chapter 1 Practice Test #2

---

13. Sandy's Boat Rental has the following rates: \$20 for the first hour or fraction of an hour; \$5 for each additional hour or fraction of an hour; \$40 for the entire day. These rates are shown in the following step graph.

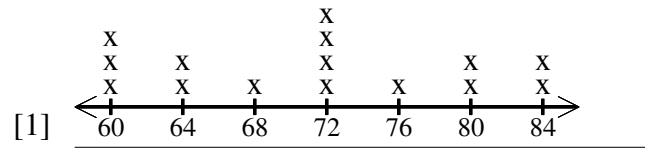


- a. How much would it cost to rent a boat for  $2\frac{1}{2}$  hours?
- b. For 4 hours?
- c. For 4 hours and 55 minutes?
- d. Jerry and his friends rent a boat at 1:45 p.m. They don't want to pay more than 30 dollars. By what time do they need to have the boat back?
14. In 400,000 acres of forest, on average 4 trees per acre were over 150 feet tall.
- a. About how many trees are taller than 150 feet?
- b. How does this figure compare with the total number of 120 million trees?

# Chapter 1 Practice Test #2

---

## Final Exam Grades



- a. 9
- b. 0
- c. 9
- d. 4

[2] e. 4 \_\_\_\_\_

### a. Total Points Scored

Stem	Leaf
6	1 2 5 5
7	3
8	1 4 7 8 8 9
9	2 6 6 7

[3] b. 97; 61; 65, 88, 96; 36 \_\_\_\_\_

a. 25.2

[4] b. 17 \_\_\_\_\_

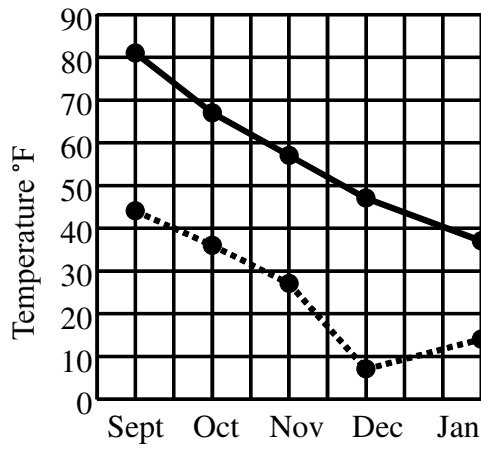
[5] the median; Explanations will vary. \_\_\_\_\_

[6] the range \_\_\_\_\_

# Chapter 1 Practice Test #2

---

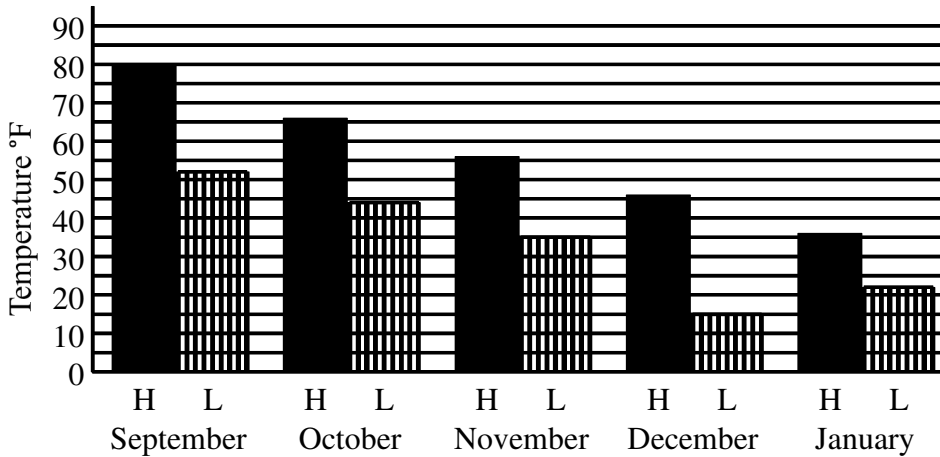
a.



- b. 7° F
- c. 23° F
- d. (i) December

[7] (ii) 40° F

---



[8]

---

- a. 2,000
- b. 1983
- c. 1970-1975
- d. 1960-1965

[9]

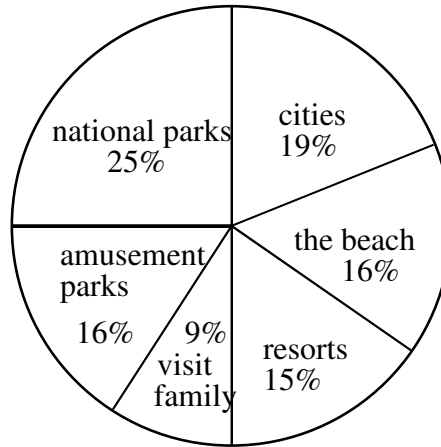
---

## Chapter 1 Practice Test #2

---

Answers will vary. Sample answer:

### Vacation Destinations



[10] \_\_\_\_\_

[11] 22 ft; 28 ft<sup>2</sup> \_\_\_\_\_

[12] Answers may vary. Sample answers:  $7 * 5 - (45 \div 9)$ ;  $7 * 3 + 9$ ;  $9 * 8 - (7 * 6)$  \_\_\_\_\_

a. \$30

b. \$35

c. \$40

[13] d. 4:45 P.M. \_\_\_\_\_

a. About 1,600,000

[14] b. About 1 out of 75. \_\_\_\_\_