

# 9.1 Practice A

Answer the question. Determine if your answer would be the same as your classmates'.

1. How many cars are in the parking lot?
2. How many letters are in the word apple?
3. In what year will you graduate from college?

Determine whether the question is a statistical question. Explain.

4. In what year was the Declaration of Independence signed?
5. How many pickles are in the pickle jar?
6. What night of the week do you watch your favorite show?

Display the data in a dot plot. Identify any clusters, peaks, or gaps in the data.

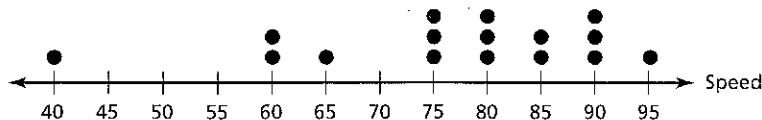
7.

Day of the Month			
14	16	15	15
15	14	15	13
14	15	15	15

8.

Age of Soccer Player (years)			
21	23	20	19
20	22	23	20
31	20	21	20

9. The dot plot shows the speeds of pitches of a baseball.



- a. How many pitches are represented?
- b. How can you collect this data? What are the units?
- c. Write a statistical question that you can answer using the dot plot. Then answer the question.

# 9.2 Practice A

Describe an average value of the data.

1. 7, 5, 9, 6, 3
2. 8, 10, 15, 7, 18, 14
3. 66, 93, 76, 101, 88, 81, 72, 95
4. 31, 73, 82, 58, 44, 60

Find the mean of the data.

5. **Movies Watched in Class**

Language Arts	
Social Studies	
Math	
Science	
Art	

6. **Students Absent**

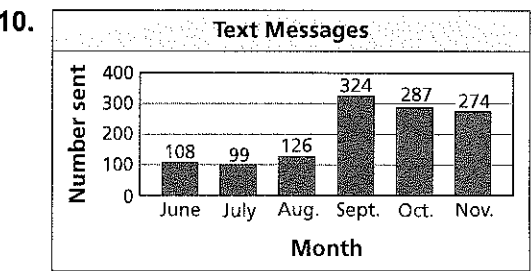
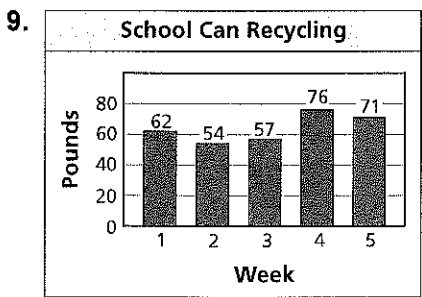
Monday	
Tuesday	
Wednesday	
Thursday	
Friday	

7. **Marching Band Members**

Wilson M.S.	44
East M.S.	62
Central M.S.	75
Seminole M.S.	39
Gator M.S.	55

8. **Problems Completed**

Kara	18
Josh	12
Dana	13
Robert	8
Katie	19



11. For ten school days, the numbers of bikes parked at a school bike rack are 10, 12, 8, 11, 13, 9, 2, 1, 9, and 12.
  - a. What is the mean number of bikes per day?
  - b. Identify two outliers for the data. Describe how the outliers affect the mean.
12. You spend 100 minutes on homework each night from Monday through Friday. You spend 190 minutes on homework on Saturday. What is your mean daily number of minutes on homework?

## 9.3

# Practice A

Find the median and mode(s) of the data.


- |                                   |                                   |
|-----------------------------------|-----------------------------------|
| 1. 1, 3, 5, 6, 7, 9, 11           | 2. 2, 2, 6, 8, 10, 14             |
| 3. 12, 15, 10, 12, 21, 9, 12      | 4. 15, 22, 21, 22, 12, 16         |
| 5. 52, 61, 56, 55, 72, 64         | 6. 71, 51, 37, 44, 50, 49, 55     |
| 7. 91, 96, 89, 97, 89, 98, 94, 93 | 8. 55, 60, 60, 40, 60, 75, 40, 25 |

9. Describe and correct the error in finding the median and mode of the data.

X

**data:** 25, 28, 24, 22, 27, 24, 29, 26

**ordered data:** 22, 24, 25, 26, 27, 28, 29



The median is 26.  
There is no mode.

Find the mode(s) of the data.

10. 

Breeds of Dogs in a Pet Hotel		
lab	poodle	beagle
schnauzer	lab	pug
pit bull	boxer	pit bull
beagle	akita	poodle
boxer	pit bull	lab

11. 

Students' Initials				
TC	AT	RC	CC	LD
DT	LB	TR	SS	TL
JG	RL	JC	MB	GR
FM	MS	DR	BB	JT
RG	PS	MJ	WS	FC

Find the mean, median, and mode(s) of the data. Choose the measure that best represents the data. Explain your reasoning.

- |                            |                                    |
|----------------------------|------------------------------------|
| 12. 6, 35, 8, 20, 6, 16, 7 | 13. 66, 57, 66, 16, 2, 35, 66, 114 |
|----------------------------|------------------------------------|
14. You sent the same email message to 10 of your friends. The numbers of hours it took them to reply were 1, 1, 1, 2, 2, 3, 4, 5, 5, and 25.
- Find the mean, median, and mode of the data.
  - Which measure best represents the data? Explain your reasoning.
  - Which data value is an outlier? Explain your answer.
  - Predict how the mean, median, and mode would change if you omit the outlier in the data list.