

Lesson 7.1 Asking Statistical Questions

A **statistical question** has answers that will vary.

"How old are students in my school?" is a statistical question because not every answer will be the same.

"How old am I?" is not a statistical question because there is only one answer.

Read each question and write *statistical* or *not*.

a

b

1. How tall are the students in my class?

STATISTICAL

What does this apple cost?

2. What grades did students score on the test?

STATISTICAL

How fast can dogs run 100 yards?

3. How many marbles are in the jar?

NOT

Does a chocolate bar weigh more than a pack of jelly beans?

4. What was the difference in rainfall between March and April?

NOT

How many miles can cars travel on a gallon of gas?

5. Will I score a basket in the game tonight?

NOT

How often do adults eat breakfast?

Lesson 7.6 Finding Measures of Center

The **mean** is the average of a set of numbers. To find the mean, add all the numbers and divide by the number of values in the set.

The **median** is the middle number of a data set. If there are two middle numbers, the median is the average of the two.

The **mode** is the number that appears most often in a data set.

Example: 12, 15, 18, 23, 8, 10, and 12

Mean: $12 + 15 + 18 + 23 + 8 + 10 + 12 = 98$ $\frac{98}{7} = 14$

To find the median, arrange the numbers in order. 8, 10, 12, 12, 15, 18, 23

Median: 12 Mode: 12

Find the mean, median, and mode of each data set. Show your work.

a

1. 32, 35, 25, 43, 43

mean 35.6

median 35

mode 43

2. 10, 18, 12, 14, 12, 12

mean _____

median _____

mode _____

3. 52, 61, 79, 78, 56, 79, 71

mean 68

median 71

mode 79

b

- 8, 12, 23, 12, 15

mean _____

median _____

mode _____

- 17, 15, 15, 28, 20, 26

mean 20.167

median 18.5

mode 15

- 37, 50, 67, 83, 34, 49, 37

mean _____

median _____

mode _____