Choose Appropriate Measures

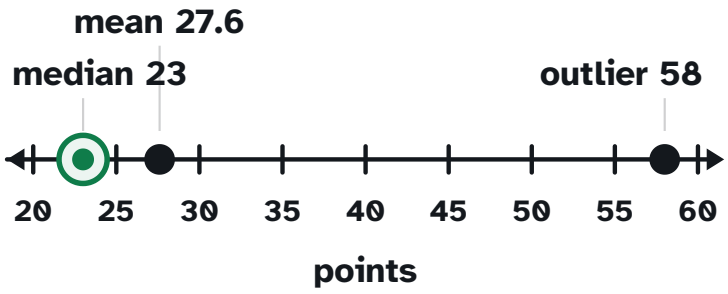
Choose the mean or the median for a typical value. Look at the shape of the data.

Name _____ **Date** _____

Tonight's spark

A top scorer had 22, 24, 20, 25, 23, 21 and 58 points in seven games. Her mean is 27.6. Is that a fair picture of a typical game?

Guess first: how many of the seven games were above 27.6?



Our class model: the outlier check

Try it

Work it out on paper. Write one answer on each line.

1 **What is an outlier in a data set?**

A. A value that is far from the rest of the values **B.** The middle value

C. The value that appears most **D.** Any value that is greater than the mean

My answer _____

2 **Which number is an outlier in 12, 14, 13, 15, 60?**

A. 12 **B.** 60 **C.** 15 **D.** There is no outlier

My answer _____

3 **An outlier mostly pulls which measure of center toward it?**

A. The median **B.** The mode **C.** The mean **D.** None of them

My answer _____

4 **Text messages sent each day: 8, 10, 9, 11, 95. Which measure of center better shows a typical day?**

A. The median, 10 **B.** The mean, 26.6 **C.** The greatest value, 95 **D.** The least value, 8

My answer _____

5 **The data 20, 21, 22, 23, 24 have no outlier. Which statement is true?**

A. Only the median can be used

B. The mean and the median are both 22, so either describes a typical value

C. The mean is 24, the greatest value **D.** The median is 20, the least value

My answer _____

6 **The mean of 2, 3, 4, 5, 36 is 10. Which statement is true?**

A. The mean, 10, describes a typical value better because it uses every value

B. The median is 5 **C.** Both measures are 10

D. The median, 4, describes a typical value better than the mean

My answer _____

Talk about it

How many of the seven games look close to that number?

Home mission

Write five prices from a receipt. Change the biggest price to a huge number, like $90. Does the middle price change? Does the mean change?

If we get stuck, ask

- Is there a number that is much bigger or smaller than the rest?
- Would that one number pull the mean up or down?
- Which answer better matches most of the numbers?

Do it on a screen

Scan or type the link. Same lesson, with hints.

eduwonderlab.com/lessons/2-10/homework.html

How did it feel? (optional)

Tricky Getting there Got it