Represent and Describe Data in a Box Plot

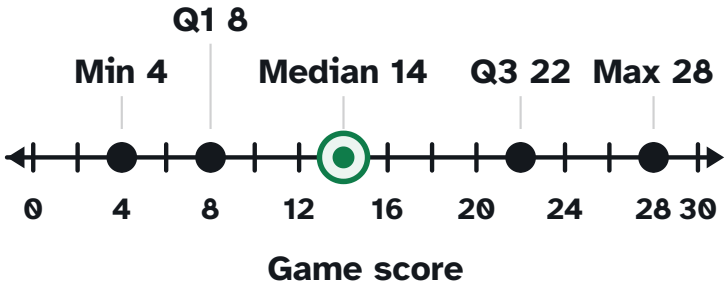
Make and read a box plot from five key numbers.

Name _____ **Date** _____

Tonight's spark

A rec-center coach lists 11 game scores in order: 4, 6, 8, 10, 12, 14, 15, 18, 22, 24, 28. She wants one picture of the middle and the spread. Which five numbers draw it?

Make a guess first: is the middle score closer to 4 or closer to 28?



Our class model: the five-number box

Try it

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

1 **Which list names the five numbers used in a box plot?**

A. Least, Q1, median, Q3, greatest **B.** Least, mean, mode, range, greatest
C. Q1, Q2, Q3, Q4, Q5 **D.** Q1, Q3, mean, mode, range

My answer _____

2 **What does the line inside the box of a box plot show?**

A. The mean **B.** The greatest value **C.** The median **D.** The least value

My answer _____

3 **What part of the data is inside the box of a box plot?**

A. All of the data **B.** The lower half **C.** Just the median **D.** The middle half

My answer _____

4 **Data in order: 1, 3, 5, 7, 9, 11, 13. What is Q1?**

A. 3 **B.** 1 **C.** 5 **D.** 7

My answer _____

5 **Data in order: 6, 8, 10, 12, 14, 16, 18. What is Q3?**

A. 12 **B.** 16 **C.** 18 **D.** 14

My answer _____

6 **Data in order: 4, 5, 7, 8, 10, 12, 15. Which is the five-number summary (least, Q1, median, Q3, greatest)?**

A. 4, 5, 8, 12, 15 **B.** 4, 5, 7, 12, 15 **C.** 4, 7, 8, 10, 15 **D.** 4, 5, 8, 12

My answer _____

Talk about it

Is the median halfway between the two ends, or the middle score in order?

Home mission

Pick five snack prices from a store flyer. Say them in order out loud. Can your student name the median, then the lowest and the highest?

If we get stuck, ask

- Did we put the numbers in order first?
- What is the median? That splits the data into two halves.
- What is the middle of the lower half, and of the upper half?

Do it on a screen

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

eduwonderlab.com/lessons/2-4/homework.html

How did it feel? (optional)

Tricky Getting there Got it