Understand Statistical Questions

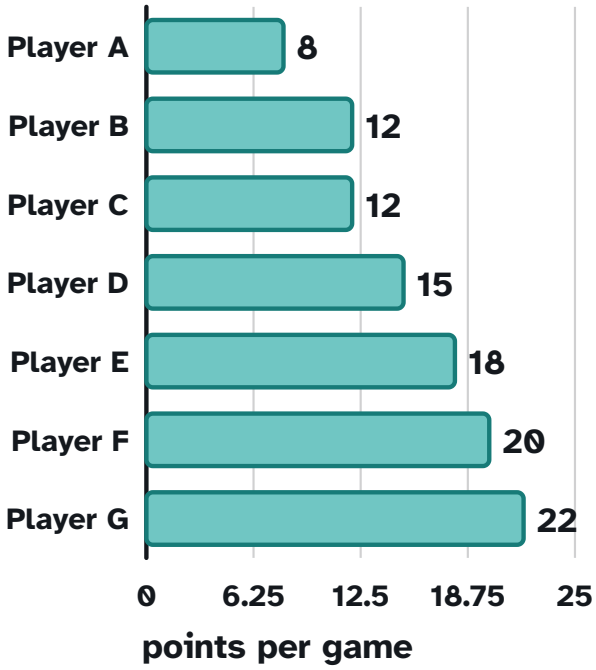
Tell a question with one fixed answer from a question that needs data that vary.

Name _____ **Date** _____

Tonight's spark

A coach asks two questions. One: How many points did our top player score last night? Two: How many points does each player score per game? Which question needs a whole list of answers?

Make a guess first: which question has only one answer?



Our class model: the "will the answers vary?" check

Try it

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

1 **Which question expects different answers from different students?**

A. How many pets does each student in our class have? **B.** How many pets does Ana have?
C. How many days are in March? **D.** What day comes after Monday?

My answer _____

2 **What makes a question statistical?**

A. The answer is a number **B.** You collect data, and the answers are expected to vary
C. The question starts with "how many" **D.** Only one person can answer it

My answer _____

3 **Which question is NOT a statistical question?**

A. How tall are the students in our class?

B. How many minutes do students in our grade spend on homework?

C. How tall is the door of our classroom? **D.** How much do the backpacks in our class weigh?

My answer _____

4 **What is variability in a set of data?**

A. The data values are different from one another **B.** The total of all the data values

C. The question that was asked **D.** A number that never changes

My answer _____

Talk about it

How many different answers do you expect for that question?

Home mission

Think of a game you both know. Ask your student: How many points did the winning team score last night? Then ask: How many points did each player score? Which question has answers that vary? Take turns making up one more pair.

If we get stuck, ask

- What would you collect, and from whom or across which observations?
- Does the question anticipate answers that could vary? Why?
- Does it ask for one fixed fact, or a set of data?

Do it on a screen

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

eduwonderlab.com/lessons/2-1/homework.html

How did it feel? (optional)



Tricky Getting there Got it