ALBERT

Name _____ Date _____

Statistical Questions Worksheet

Grade 6 · Common Core 6.SP.A.1

> Recognize a statistical question as one that anticipates variability in the data related to the question and accounts for it in the answers.

Practice

Builds the skill step by step.

1. Is this a statistical question? "How tall is the flagpole at our school?" Write statistical or not statistical.

2. Is this a statistical question? "How tall are the students in my class?" Write statistical or not statistical.

3. Is this a statistical question? "How many hours of sleep do sixth graders get on school nights?" Write statistical or not statistical.

4. Which question is statistical?

   A. How many pets does Maya have?

   B. How many pets do students in our grade have?

   C. What is 12 × 4?

   D. What color is the school bus?

5. Is this a statistical question? "What is the capital of Texas?" Write statistical or not statistical.

6. Is this a statistical question? "How long does it take students in our school to get to school each morning?" Write statistical or not statistical.

7. Why is "How old am I?" not a statistical question?

   A. It is about age.

   B. It uses the word "I."

   C. Ages are numbers.

   D. It has only one answer.

8. Is this a statistical question? "How many points did our team score in each game this season?" Write statistical or not statistical.

9. Is this a statistical question? "How many days are in the month of March?" Write statistical or not statistical.

10. Is this a statistical question? "What are the favorite sports of the students in our school?" Write statistical or not statistical.

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On Level

Grade-level practice.

1. Which change turns "How many books did Ana read last month?" into a statistical question?

   A. How many books did the students in Ana's class read last month?

   B. How many pages are in Ana's favorite book?

   C. Did Ana read last month?

   D. Which book did Ana read first?

2. Is this a statistical question? "What was the high temperature in Denver each day last July?" Write statistical or not statistical.

3. Is this a statistical question? "How much does this bag of apples weigh?" Write statistical or not statistical.

4. A student asks, "How many minutes did I spend on homework yesterday?" Which is the best statistical version?

   A. How many minutes are in an hour?

   B. How many minutes did I spend on homework each day last month?

   C. Did I do homework yesterday?

   D. What subject was my homework in?

5. Is this a statistical question? "How many text messages do sixth graders send in a typical day?" Write statistical or not statistical.

6. Is this a statistical question? "How many students are in Mr. Lee's first-period class today?" Write statistical or not statistical.

7. Which data would you collect to answer "How long are the songs on the Top 50 chart?"

   A. The length of each of the 50 songs

   B. The length of the number 1 song

   C. The number of songs on the chart

   D. The singer of each song

8. Is this a statistical question? "How far can the students in our grade throw a softball?" Write statistical or not statistical.

9. Is this a statistical question? "How many legs does a spider have?" Write statistical or not statistical.

10. Which is a statistical version of "What is my shoe size?"

    A. What are the shoe sizes of the students in my class?

    B. What size shoe does my teacher wear?

    C. Are my shoes new?

    D. What is the largest shoe size sold?

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Challenge

Multi-step and word problems that stretch it.

1. Which question is statistical and could be answered with numerical data?

   A. How many siblings do the students in our grade have?

   B. What is the favorite color of students in our grade?

   C. Is our principal's name Ms. Diaz?

   D. How many siblings does Jordan have?

2. Jada says "What is the average height of students in my class?" is not statistical because it has one answer. Which response is correct?

   A. She is right: any question with one final answer is not statistical.

   B. She is right: averages are not data.

   C. She is wrong: the average summarizes heights that vary, so the question is statistical.

   D. She is wrong: every question about people is statistical.

3. Is this a statistical question? "How does the price of a gallon of milk vary among the grocery stores in our town?" Write statistical or not statistical.

4. A class wants to know how much time students spend outdoors. Which question should they ask in a survey?

   A. Do you like being outdoors?

   B. Is it sunny today?

   C. How many parks are in town?

   D. How many minutes did you spend outdoors yesterday?

5. Which is a statistical question with numerical answers?

   A. What is the name of our school?

   B. How many minutes do students in our school read each night?

   C. What are the favorite colors of students in our school?

   D. How many minutes did Leo read last night?

6. Is this a statistical question? "How long did it take Sam to run the mile in gym class today?" Write statistical or not statistical.

7. "How many hours did you sleep last night?" is asked of one person, then of 100 people. Which statement is true?

   A. It is statistical both times.

   B. It is statistical only when asked of one person.

   C. Asked of 100 people it is statistical, because the answers will vary.

   D. It is never statistical.

8. Which question anticipates the MOST variability in its answers?

   A. How many hours are in a day?

   B. How many minutes do sixth graders spend on screens each day?

   C. How many days are in a week?

   D. How many sides does a hexagon have?

9. Is this a statistical question? "What is the population of each state in the United States?" Write statistical or not statistical.

10. "What are the favorite foods of the students in my class?" What kind of data does it collect?

    A. Numerical data that varies

    B. Categorical data that varies

    C. A single numerical answer

    D. No data