Name_____ Date_____ Period_____

LESSON 2-1 · SESSION 1 · PRACTICE · FORM B

Statistical Questions

Learning target – I can tell whether a question is statistical by deciding if the answers will vary. · 6.SP.A.1

REMEMBER

- A **statistical question** expects answers that **vary** from person to person.
- A question with one **fixed** answer is not statistical, even when the answer is a number.
- Test: could two people give **different** answers? If yes, it is statistical.

WORKED EXAMPLE

Which is statistical: "How many siblings does each student have?" or "How many sides does a triangle have?"

Step 1 Sibling counts differ: 0, 1, 3.

Step 2 A triangle always has 3 sides.

Answer **The sibling question is statistical; the triangle question is not.**

WORDS **statistical question** *(pregunta estadística)* · **variability** *(variabilidad)* · **data** *(datos)*

PRACTICE

show your work · label units

1. Ms. Lindqvist posted these questions. Write **S** (statistical) or **N** (not statistical).

Question	S or N
How many siblings do you have?	
How many days are in a week?	
What time does the school day end?	
How many books did you read this month?	

2. **Practice Minutes.** Mr. Delgado asked, "How many minutes did you practice music last night?" Eight students answered: 25, 5, 45, 30, 15, 50, 20, 10.

a. S or N? _____

b. How many answered? _____

c. Least answer: _____

d. Greatest answer: _____

3. **Two Questions.** Amara asks: (1) "What is your bus number?" (2) "How many buses park at our school each morning?" Which one is statistical?

Hint *Would every classmate give the same answer?*

☐ Question 1 ☐ Question 2

4. **Rosa's Claim.** Rosa says the answers to "How many windows are in our library?" will vary. Is she right?

Hint *Would two students counting give different numbers?*

☐ Yes, statistical ☐ No, not statistical

5. Snack Bar Spending. Mr. Haddad asks shoppers at the snack bar, "How much money did you spend today?" Six shoppers answered: 4, 9, 3, 8, 5, 6 dollars.

Hint *Add all the amounts to find the total.*

a. S or N? ____ **b.** Greatest: ____ **c.** Total spent: ____

6. Fix the Question. Rewrite "How many floors does our school have?" as a statistical question.

New question_____

7. Sort the questions. Write **S** or **N**. Then tell how many are statistical.

Hint *Only one question has a single fixed answer.*

Question	S or N
How long is each student's arm span?	
How many steps lead up to the front door of our school?	
How many books does each student have at home?	
How long is each student's walk to school?	

How many S_____

8. Survey Design. A school club wants to learn about sleep in sixth grade.

a. Write a statistical question the club could ask.

b. What would vary in the answers?

c. Why would "How long did the principal sleep last night?" not give the club the data it needs?

Show your work.

FIND THE ERROR

explain the mistake, then fix it

9. Owen's Work. Owen says "How many inches are in one foot?" is a statistical question because the answer is a number. Explain the mistake. Then write a statistical question about length.

_____

_____

_____

TEST PRACTICE

choose the best answer

10. Which question is NOT statistical?

A How many pets does each student have? **B** How tall is each player on the team?

C What is my locker number? **D** How long does each student sleep?

11. The answers to a statistical question —

A are expected to vary

B are always the same

C are always words

D come from one person

SELF-CHECK CODE *find your answer · copy its letter into that problem's box · spell a math word*

50	8	9	4	3	5	45	25	35
S	A	W	X	R	N	Q	Z	E

#2b	#2c	#2d	#5b	#5c	#7

CHECK YOURSELF ☐ I can do this on my own ☐ I need a little help ☐ I have a question about #___