Name_____ Date_____ Period_____

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

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. Mr. Ruiz posted these questions. Write **S** (statistical) or **N** (not statistical).

Question	S or N
How many pets do you have?	
How many days are in June?	
What time does first bell ring?	
How far do you live from school?	

2. **Reading Minutes.** Ms. Okafor asked, "How many minutes did you read last night?" Six students answered: 15, 40, 0, 35, 20, 10.

Hint *Find the smallest number in the list, even if it is 0.*

a. S or N? _____

b. How many answered? _____

c. Least answer: _____

d. Greatest answer: _____

3. Two Questions. Deshawn asks: (1) "What number is on your locker?" (2) "How many lockers are in the sixth-grade hallway?" Which one is statistical?

Hint *Would every classmate give the same answer?*

☐ Question 1 ☐ Question 2

4. Tomas's Claim. Tomas says the answers to "How many tables are in our cafeteria?" will vary. Is he right?

Hint *Would two students counting give different numbers?*

☐ Yes, statistical ☐ No, not statistical

5. Store Spending. Ms. Bellamy asks shoppers at the school store, "How much money did you spend today?" Five shoppers answered: 3, 7, 2, 6, 4 dollars.

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

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

6. Fix the Question. Rewrite "What year did our school open?" 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
What is the height of the flagpole at our school?	
How tall is each sixth grader in our class?	
How many pets does each student own?	

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 "What time did the principal wake up today?" not give the club the data it needs?

Show your work.

FIND THE ERROR

explain the mistake, then fix it

9. Priya's Work. Priya says "How many minutes are in one hour?" is a statistical question because the answer is a number. Explain the mistake. Then write a statistical question about time.

TEST PRACTICE

choose the best answer

10. Which question is statistical?

A How old is our principal?

B What is 5 + 5?

C How many days are in a week?

D How old is each teacher at our school?

11. Data collected to answer a statistical question will show –

A one fixed answer **B** only letters **C** variability **D** no numbers

SELF-CHECK CODE

find your answer · copy its letter into that problem's box · spell a math word

10	2	40	22	3	35	0	7	6
Q	Y	R	E	X	Z	U	V	S

#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 #___