

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Investigation 1.1: Formulating a Statistical Question

### Assessment

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#### Level A

A third-grader's favorite sport was soccer. She asked all the students in her room, "Who likes to watch a soccer game?" Explain why this is a statistical question.

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## Assessment

A group of seventh-grade students asked the question, “What’s the fastest animal in the world?”

1. Explain why this is not a statistical question.
2. Rewrite the question so it is a statistical question.

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**Investigation 1.1: Formulating a Statistical Question**

For each question, indicate whether it is a statistical question. If yes, specify the population, measurement, and expected variation. If not, explain why and rewrite the question so that it is a statistical question.

**Table 1.1.1: Level A Questions**

Question	Statistical Question (Y or N)	Explain Your Answer	Question	Statistical Question (Y or N)	Explain Your Answer
What colors are the shoes worn by the teachers in our school?			How many languages does my friend speak?		
What are the shapes of all the buttons on the clothes worn by the students in this class?			How far can I jump?		
How many times does the word "bridge" appear in the rhyme "London Bridge Is Falling Down"?			Does my best friend like McDonald's Happy Meals?		
How many pockets do I have?			Is my last name the longest name in class?		
What is my fifth-grade sister's favorite animal at the zoo?			What is the favorite lunch of third-graders in our school?		

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**Investigation 1.1: Formulating a Statistical Question**

For each question, indicate whether it is a statistical question. If yes, specify the population, measurement, and expected variation. If not, explain why and rewrite the question so that it is a statistical question.

**Table 1.1.2: Level B Questions**

Question	Statistical Question (Y or No)	Explain Your Answer	Question	Statistical Question (Y or No)	Explain Your Answer
Can I roll my tongue?			Who was the oldest U.S. president when inaugurated?		
How do the lengths of the first names of students in class compare to the lengths of their last names?			Are students in our class who are 4'5" or taller able to jump higher than students who are shorter than 4'5"?		
Am I going to win a prize at the school carnival?			Which brand of pizza has the most pepperoni?		
What is the longest-lasting brand of AA batteries?			Do plants grow better under colored lights?		
A teacher asks her class, "What is your shoe size?"			Is it easier to remember a set of objects or a list of words?		
Which brand of bubble gum holds its flavor the longest?					