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

Statistical Questions

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| --- | --- |
| Statistics | The practice of collecting, organizing, and analyzing data in large quantities |
| Statistical Questions | A question that generates a variety of answers through collecting data. |
| Categorical | Information organized into groups or categories (ie: favorite candy bar, hair color, etc.) |
| Numerical | Information that can be measured with numbers (ie: height, arm span, age) |
| Ways to collect data | * questionnaires/surveys * interviews * logs/diaries * census * observation * internet research |

Solve:

1. Which of these questions can be categorized as a statistical question? If it is not a statistical question, rewrite it as a statistical question.

* How many socks are in your drawer? Not statistical. How many socks are each student’s drawer in the 6th grade?
* How many TV’s are in your house? Not statistical. How many TV’s are in each person’s home on my team?
* How many letters are in the names of each person in Mr. Smith’s class? Statistical

1. Identify each of the following data sets as categorical (C) or numerical (N)

* Arm spans of NBA players. N
* Favorite college sports team. C
* Languages spoken by teachers. C

You Try:

1. Which of these questions can be categorized as a statistical question? If it is not a statistical question, rewrite it as a statistical question.

* What is your favorite color? Not statistical. What is each person’s favorite color on my team?
* What are the shoe sizes of students on my bus? Statistical
* How old are the people at my YMCA? Statistical

1. Identify each of the following data sets as categorical (C) or numerical (N)

* Height of 6th graders. N
* Hours of sleep on a school night. N
* Favorite flavor of ice cream. C