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Quiz: Descriptive vs. Inferential (Bagels)

Quiz Question

Identify the population(s), parameter(s), sample(s), and statistic(s) for the below scenario:

Consider we own a bagel shop. We know that the average diameter of all of our bagels is 5.5 inches. A competitor moves right next door to us! We are interested in if they make larger bagels than us. We obtain 100 of their bagels, and we find they have an average diameter of 6 inches.

Sample | Population | Sample | Statistic | Parameter | None | Population | Parameter | Statistic

Description	Term
5.5 inches	
6 inches	
All the bagels at our bagel shop.	
All the bagels at our competitor's bagel shop.	
The 100 bagels from the competitor's bagel shop.	

Submit

Quiz Question

For the below, match the term to the correct description.

These are the correct matches.

Description	Term
A numeric summary of a sample.	Statistic
A numeric summary of a population.	Parameter
Drawing conclusions regarding a population using information from a sample.	Inference
Drawing conclusions regarding a sample using information from a population.	None
A subset of a population.	Sample
Our entire group of interest.	Population
Frequently we do not know this value, so we must try and estimate.	Parameter