Topic: Parameter & Statistic **Date**: _____

What am I learning today?

_____

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Main Ideas/ Questions	**Notes**
Review of Activity 5.2	**Using the data from Activity 5.2, fill in the blanks below.** **Population percent**: 1st Sample percent: 2nd Sample Percent: 3rd Sample percent: 4th Sample Percent: 5th Sample percent: **Avg. Sample Percent**: **What do you notice about the "Population Percent" and the "Avg. Sample Percent"?**
Parameter and Statistic	**Parameter** – A number that describes the _____. It is a fixed number, but typically we don't know its value. **Think "parameter' → 'population'** **Statistic** – A number that describes the _____. This value is known once we have taken a sample. It is NOT a fixed number since it can change from sample to sample. We often use a statistic to estimate an unknown parameter. **Think "statistic' → 'sample'**

Examples:

1) On Tuesday, the bottles of Arizona iced tea are filled in a plant were supposed to contain on average 20 ounces of iced tea. Quality control inspectors sampled 50 bottles at random from the day's production. These bottles contained an average of 19.6 ounces of iced tea.

Population: **Sample:**

Parameter: **Statistic:**

2) On a New York-to-Denver flight, 8% of the 125 passengers were selected for a random security screening prior to boarding. According to TSA, 10% of airline passengers are chosen for random screenings.

Population: **Sample:**

Parameter: **Statistic:**