What Makes a Good Sample Notes Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Why do you need a sample?** When you are collecting data, it is very difficult to ask *every* person in that population. So you want to be able to ask a smaller amount of people and then make a generalization about your findings that applies to the entire population.

**What makes a good sample?**

* The larger the sample, the better
* It has to try to represent the population that is being studied
* The sample should not have bias

**What is a random sample?** A sample set up so that each member of the target population has an *equally* likely chance of occurring

**Look at the following situation and determine if it is a *good* random sample:**

**1)** Your teacher is going to give a prize to 10 students in the class. Your teacher puts every students name into a basket and pulls out one name at a time.

**2)** Your school cafeteria is going to make some changes to the menu. They ask the first 150 students in the cafeteria what they would change about the menu.

**3)** Your school is going to get some new physical education equipment. They ask all of the boys in each class what equipment they would prefer.

**4)** Your PTA is going to pay for a cultural arts assembly. They ask 200 randomly selected students in the hallways all over the building.

**5)** Your school is going to have a fundraiser. They ask 5 random students what events they would like to have in order to raise money for the school.

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**Pause the video and try these on your own!**

**Then press play and check your answers with a color pen**

**Look at the following situation and determine if it is a *good* random sample and tell why or why not.**

**1)** Your teacher is going to give a prize to 10 students in the class. Your teacher puts every girls name into a basket and pulls out one name at a time.

**2)** Your school cafeteria is going to make some changes to the menu. They ask 20 students randomly selected from each grade level what they would change about the menu.

**3)** Your school is going to get some new basketball equipment. They randomly select 15 members of the baseball and soccer team to get their opinion.

**4)** Your PTA is going to pay for a cultural arts assembly. They put all 10 of the options in a bag and pull out one.

**5)** Your school is going to have a fundraiser. They ask 5 girls and 5 boys from each class to see what events they would like to have in order to raise money for the school.