# Find the Right Shake

You have three bottles of milkshakes that are all mislabelled. One contains Oreo shake, another Kitkat shake, and the third has a mix of both in random proportion. How many minimum shakes would you have to taste to find out how to match the jars' labels correctly?

- **A- Oreo Shake**
- **B- KitKat Shake**
- **C- Oreo-KitKat Shake (random proportion)**

**FOR SOLUTION SCROLL TO THE NEXT PAGE!!!!**

**Solution:**

We know that all bottles are mislabelled, i.e. Bottle A labelled as Oreo Shake is not Oreo Shake, and the same goes for all the other bottles.

Take a sip from the Mix Bottle, i.e. Bottle C. We know that it is not the mixed shake as it is mislabeled, so if it is the Oreo shake, then Bottle A is KitKat, since Bottle B is mislabeled as KitKat, and therefore Bottle B is Mixed.

Similarly, Bottle C is KitKat. Bottle B is Oreo as Bottle A can't be Oreo [mislabeled as Oreo]. Therefore Bottle A is mixed.

So we can correctly label the bottles in one tasting.