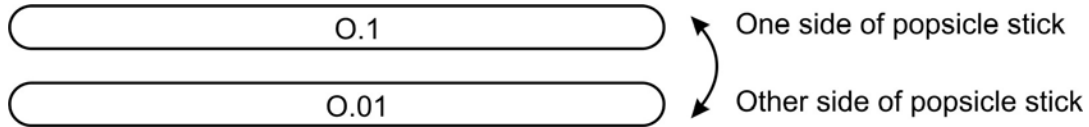


## Toss a Decimal

1. Students work in pairs. Each pair needs 17 popsicle sticks. Each popsicle stick needs 0.1 written in one side and 0.01 written on the other.



2. Students start with 10 popsicle sticks and drop them endwise from their hand. They will randomly land with either 0.1 or 0.01 face-up.
3. Students write their number of tenths and hundredths in a place value chart, and then write the decimal in standard notation (recording chart attached).

All the numbers from dropping 10 popsicle sticks will be straightforward to record - under ten tenths or hundredths.

4. After a certain number of drops (maybe 5) consolidate the recording of the numbers and make sure students understand the recording of tenths and hundredths in the place value system.
5. Students now drop a greater number of popsicle sticks, up to 17. The more popsicle sticks, the greater the chance students will get more than 10 tenths or hundredths and need to regroup for standard notation.

## Example

In the first example, the student throws 10 popsicle sticks and get 3 tenths and 7 hundredths.

In the second example, the student throws 17 popsicle sticks and get 4 tenths and 13 hundredths. Now that they have 10 or more hundredths, they need to group 10 of them into an extra tenth.

Wholes	Tenths	Hundredths		Standard Notation
	3	7	→	0.37
	4	13	→	0.53

