

## *Role of chance and probability in real-world situations*

- quantitative measure of the likelihood of an event
- mathematical foundation of common sense and good judgment
- 0 to 1 (or 0% to 100%)
- law of large numbers
- experimental error provides an estimate of the inherent uncertainty associated with experimental procedures

## *Role of chance and probability in real-world situations*

- quantitative measure of the likelihood of an event
- mathematical foundation of common sense and good judgment
- 0 to 1 (or 0% to 100%)
- law of large numbers
- experimental error provides an estimate of the inherent uncertainty associated with experimental procedures

Work with others to critically analyze the role of probability and chance in the density experiments from the Jeff Weeks' video

Can you recall and connect how .4% relates?

How about  $\frac{1}{3000}$ ?