

4.3 Introduction to Probability

Probability - the likelihood that an event will occur.

As a fraction, probability can range anywhere from 0 to 1.

Example: What is the probability that I will wake up tomorrow as a woman?
0.

What is the probability that tomorrow I will wake up a man? 1

As a percent, probability can be anywhere from 0% to 100%

Experimental probability consists of a number of trials, which means 1 event. For each trial there could be any number outcomes.

Favorable outcome - the outcome we want.

To find the probability $P(E) = \frac{\text{\# of favorable outcomes}}{\text{total \# of trials}}$

Pg 181 Probability Experiment

Classwork: Pg 183 # 2-26 Evens

Homework: Pg 183 # 1-~~31~~ Odds.

Accuracy Vs Precision

Accurate - how close the data is to the theoretical value

Precision - how close the data is to one another.