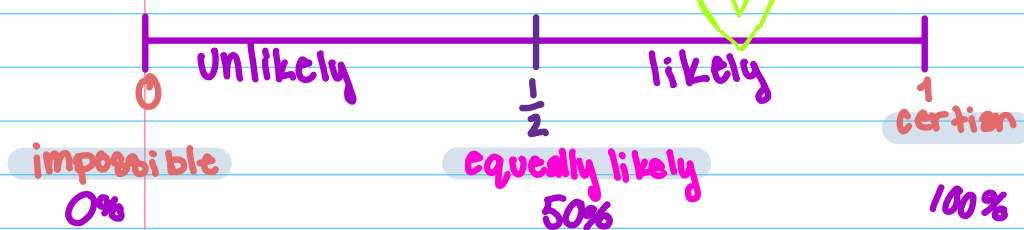


7.1 Probability

The chance that something will happen



Box with cubes

5 green, 4 red, 2 blue, 1 yellow

$$P(\text{green}) = \frac{5}{12} \quad P(\text{not green}) = \frac{7}{12}$$

$$P(\text{red}) = \frac{4}{12} = \frac{1}{3} \quad P(\text{red or blue}) = \frac{6}{12} = \frac{1}{2}$$

$$P(\text{blue}) = \frac{2}{12} = \frac{1}{6} \quad P(\text{purple}) = \frac{0}{12} = 0$$

$$P(\text{yellow}) = \frac{1}{12} \quad P(\text{green, red, blue, yellow}) = 1$$