

2-6 Probability: Simple & Odds

Probability (P)

$$P(a) = \frac{\text{\# of favorable outcomes (what u want)}}{\text{total \# of possible outcomes (TOTAL)}}$$

↑
event
(ex. rolling
a 3)

Examples

1.) $P(3) = \frac{1}{6} \approx .17 \approx 17\%$

2.) $P(\text{twix}) = \frac{6}{50} = 0.12 = 12\%$

3.) $P(\text{twix \& Snickers}) = \frac{10}{50} = 0.2 = 20\%$

Find the ODDS

What u want (successes)

What u DON'T want (failures)

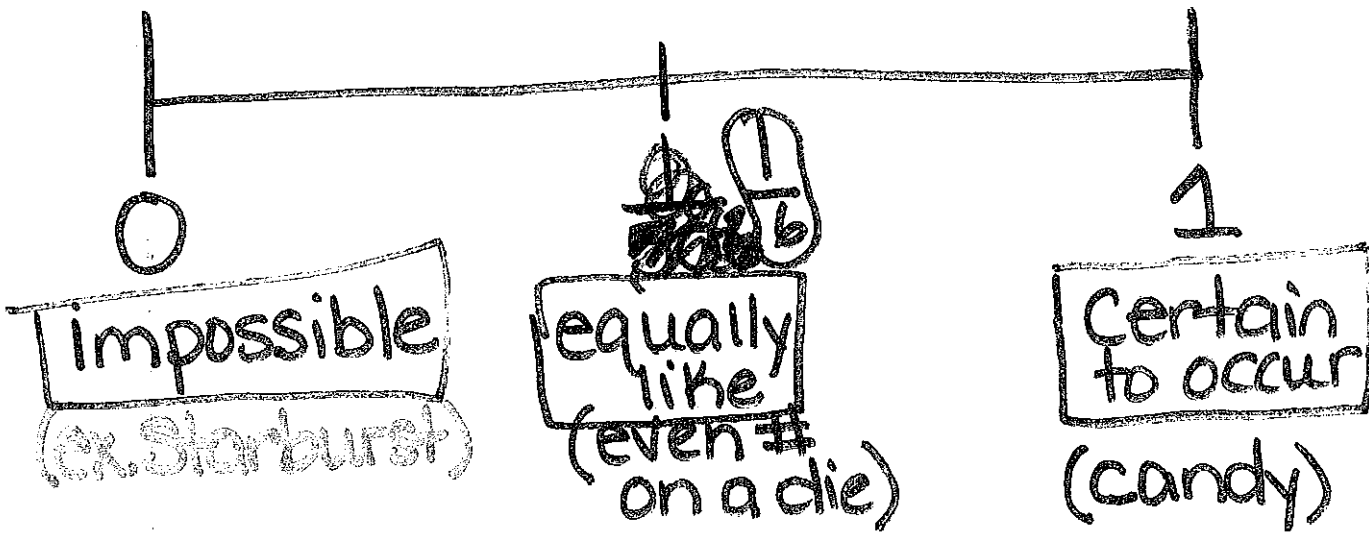
1.) Find the odds of rolling a # less than 3.

Sample Space: $\boxed{1, 2}$ successes
 $\underline{3, 4, 5, 6}$ failures

$$\frac{2}{4} = \frac{1}{2} \text{ or } 1:2$$

2.) Find the odds of getting choc. candy

$$\frac{7}{4} \text{ or } 7:4$$



HW: p. 98: 3-11 all

Deck of Cards = 52 total

♥: 13 ACE, 2, 3, 4, 5, 6, 7, 8, 9, 10, J, Q, K

♦: 13

♠: 13

♣: 13

