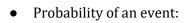
Unit 11 Day 3 Notes on Intro to Probability

Vocabulary {Key Terms to Know}

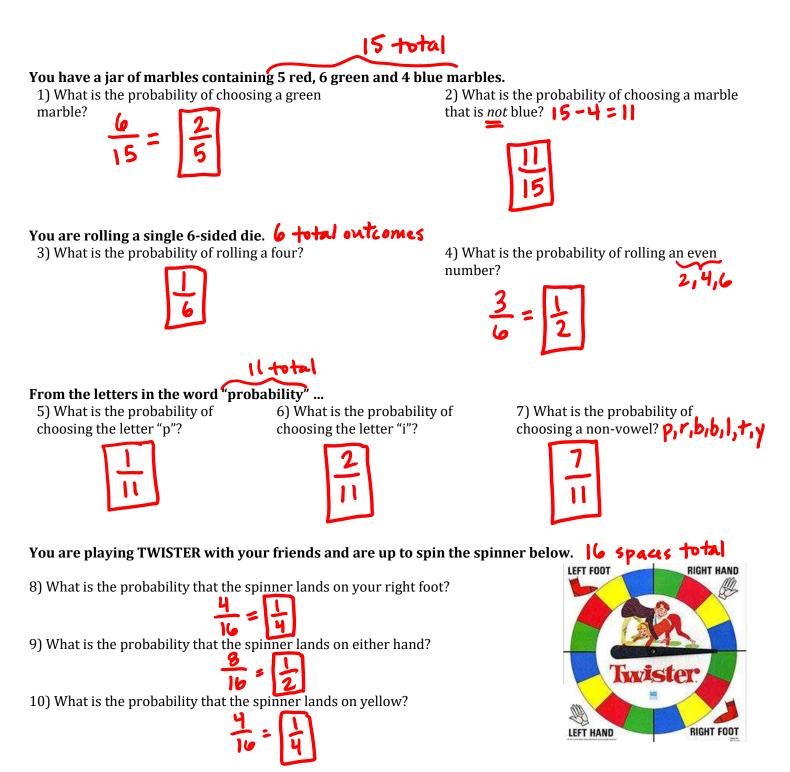
Sample Space: the set of all possible outcomes



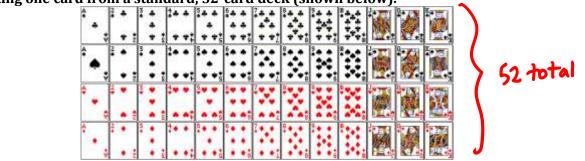




Probability functions and distributions:



You are selecting one card from a standard, 52-card deck (shown below).



11) What is the probability of choosing a king?

52 13

13) What is the probability of drawing a heart?

13 = 1

15) What is the probability of choosing a queen, a king, or an ace?

 $\frac{12}{52} = \frac{3}{13}$

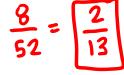
17) What is the probability of drawing the queen of hearts?



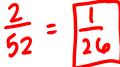
12) What is the probability of drawing a red card (diamond or heart)?

26 = 1

14) What is the probability of choosing a jack or a queen?



16) What is the probability of drawing a black ace?



18) What is the probability of drawing a black diamond?

A restaurant offers four sizes of pizza – small, medium, large, and extra-large; two types of crust – thick and thin; and eight toppings.

19) How many possible combinations of pizza with one topping are there?

 $| \cdot | \cdot 9 = 9$

4.2.3 = 64 total combinations

64 =

20) If your friend orders a random pizza, what is the probability that it is a small, thin-crust, one-topping pizza?

· 2· 8 = 16 16/24 =

21) If your friend orders a random pizza, what is the probability that it is an extra-large, one-topping pizza?