Name:			

## Fifteen identical red jellybeans are sitting in a dish. 3 taste like cherry, 5 taste like cinnamon, and 7 taste like Tabasco.

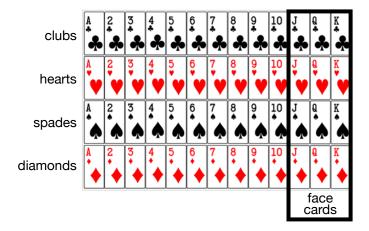






- 1) If you eat three of the jellybeans at random, what is the probability that none are Tabasco?
- 2) If you eat four of the jellybeans at random, what is the probability that all of them are cinnamon?
- 3) At 1:00, you pick up one jellybean, lick it, and put it back in the mix. At 2:00, you pick up one jellybean, lick it, and put it back in the mix. At 3:00, you pick up one jellybean, lick it, and put it back in the mix. What is the probability you get cherry all three times?

## Standard 52-card deck



You grab a card at random, put it back in the deck, and draw again.

- 4) P (a club, then a diamond) =
- 5) P (a jack, then a seven) =
- 6) P (a five, then a face card, then a five) =
- 7) P (a queen, then a queen, then a queen) =

You grab a card at random, stuff the card in your mouth, and draw again.

- 8) P (a club, then a diamond) =
- 9) P (a jack, then a seven) =
- 10) P (a five, then a face card, then a five) =
- 11) P (a queen, then a queen, then a queen) =



The Idaho lottery numbers its ping pong balls from 1 to 60 and then randomly picks six of them. To win the lottery, you must must correctly guess all six numbers.

- 12) What is the probability that the first ping pong ball picked is one of your numbers?
- 13) What is the probability that the first two ping pong balls picked are your numbers?
- 14) What is the probability of winning the lottery?

A football team scores in the 1st Quarter 60% of the time.

If they score in the 1st, they end up winning the game 75% of the time. If they don't score in the 1st, they win the game only 10% of the time.



15) What is the probability the team will lose its next game?

A filing cabinet has five drawers. Each drawer has fifty folders. Craig, a thief, knows that \$1000 is hiding in one of the folders.

- 16) Craig makes a guess and grabs one folder. What is the probability he does not have the \$1000?
- 17) What is the probability Craig does not find the \$1000 after his first four guesses?
- 18) Craig has enough time to empty two drawers into his bag and run. What is the probability he does not get the \$1000?

