(146) Last month Jay went to Jamaica. But the weather during his vacation wasn’t the best. It rained on fifteen different days, but it never rained for a whole day. Clear afternoons were preceeded by rainy mornings and clear mornings were followed by rainy afternoons. Altogether, there were twelve clear mornings and thirteen clear afternoons. How long was Jay’s vacation in Jamaica?

(147) Dan, Steve, Jessica, and Amy work as volunteers at the local children’s clinic. Dan brings the kids food every 4 days; Steve cleans the play area every 6 days; Jessica plays with the kids in Group A every 2 days; and Amy helps the instructors every 3 days. How many times in 12 weeks will all 4 helpers be at the clinic on the same day?

(148) (Eating Ravioli) Claudio loves ravioli. He especially likes ravioli con la ricotta (with just cheese as the filling). He can eat 32 of them in an hour. His brother Francesco likes to savor his ravioli so he eats at a much slower pace. He needs 3 hours to eat the same amount. Together, how long will it take them to eat 32 ravioli?

(149) Take four quarters, four dimes, four nickels, and four pennies and distribute the sixteen coins in a 4 × 4 grid. Is it true that by selecting one coin from each four rows of the grid you can always find 41 cents worth of coins (that is, one quarter, one dime, one nickel and one penny) with each from a different row?

(150) You and your friends are getting together to study and decided to order a large pizza. If there are sixteen different toppings available, but no more than seven toppings can be ordered, how many different combinations of toppings can be ordered?

(151) A mother and father have six sons and each son has one sister. How many people are in that family?

(152) There are six cups lined up in a row. Three are filled with water and the other three are empty. The order of the cups is E-E-F-F-F-E, where E stands for being empty and F stands for being full. How do you make the patterns F-E-F-E-F-E while only moving one cup?

(153) Can you fold an 8 1/2 × 11 inch piece of paper in half and draw a single 13 inch straight line on one of the four faces of the folded paper?

(154) People who live in Russia are called Russians. People who live in China are called Chinese. People who live in Europe are called Europeans. People who live in Mars are called what?

(155) There are five fish in an aquarium. One night, two of the fish die. The morning after the incident, the owner checks the aquarium. How many fish does he find in the aquarium?

(156) There are a hundred birds in a tree. How can you capture them all in one shot?

(157) At a fork in the road between two cities, you see two people. One always tells the truth and comes from the city of safety. The other lies and comes from the city of cannibals, where they will eat you. They both look exactly the same. You must choose one of the persons and ask him one and only one question. What question can you ask to find out which path leads to the city of safety?
(158) Dan went to the hardware store with Alex, Ben and George. He noted that a hammer cost ten times as much as a screwdriver and a power saw costs ten times as much as a hammer. The storekeeper said that Ben could buy a power saw, George could buy a screwdriver and Alex could buy a hammer. Based on this, what would the storekeeper let Fred buy?

(159) (Petal Around the Rose) In the book Hard Drive: Bill Gates and the Making of the Microsoft Empire, by James Wallace and Jim Erickson, on page 124 (Chapter 3, The Microkids) there are the following paragraphs:

... the microcomputer group, including Gates, passed the time on the airport terminal floor by playing a dice game called Petal Around the Rose. Gates had not played the game before, but he was eager to try his competitive hand. The game had been developed by students at the University of Southern California. Five dice are thrown, and the player is told three things: the name of the game is Petal Around the Rose, the answer is always even, and there is a correct answer for each throw of the dice. The player is told nothing else. If someone gets the right answer five times in a row, it’s considered prima facie evidence they understand the game and they are sworn to secrecy.

It’s a difficult game. Some catch on after only a few throws of the dice, others need weeks, and a few never get it. Frustrated players falling into the last category have resorted to running computer simulations. Gates was one who never figured the game out. He did get the right answer five times in a row, but not because he understood what he was doing. He actually didn’t have a clue. But with his photographic memory, Gates was able to remember each correct answer from a previous roll by another player. With five dice, it was quite a feat of memorization.

Nelson Winkless realized that Gates was faking it when he picked up a piece of paper Gates inadvertently dropped in the aisle of the plane near his seat. On it Gates had written, peddle around the roses. Knowing the proper spelling of the name of the game was essential to solving the puzzle. His poor spelling guaranteed he would never figure it out.

How does this dice game work and what is the solution?

(160) You have two jugs, one with a capacity a three gallons and the other with a capacity of five gallons. With an unlimited supply of water, how can you get exactly four gallons in one of the jugs?

(161) A man wanted to enter an exclusive club but did not know the password that was required. He waited by the door and listened. A club member knocked on the door and the doorman said, ”twelve.” The member replied, ”six” and was let in. A second member came to the door and the doorman said, ”six.” The member replied, ”three” and was let in. The man thought he had heard enough and walked up to the door. The doorman said ”ten” and the man replied, ”five.” But he was not let in.

What should have he said?

(162) A crime has been committed. A life has been taken. The name, address and personal information are known by police. However, this person shall never go to trial or jail. Why?
(163) A family lives in the suburbs and wants their two sons to earn money over the summer. They, decide to utilize the 100 by 100 foot back yard to plant tomatoes and then sell the tomatoes at a farmers market. They order the plants and the instructions say to plant the tomatoes 5 feet apart and 5 feet from the fence line. What is the maximum number of plants that can be planted in this plot of land?

(164) There are three chips. A one-digit positive whole number is written on each side of each chip. The six numbers used on the chips are consecutive.

Tossing the chips once, you get 6, 7 and 8, for a sum of 21. Then shake and toss them a few more times and get the sums of 16, 17, 20 and 23.

Which number is on the opposite side of number 6? number 7? number 8?


MySpace.com is a site wherein one may post a blurb about oneself, and if interested, people may add you as a friend. The longer you are a member of vwww.myspace.com, the better your chance your profile has of being viewed, and the better your chance of being added as somebody’s friend.

Every day that your profile, exists, two more people view it than in the previous day. For every 10 profile views, approximately 5 will add Tony as a friend.

If on the first day of Tony’s membership 3 people view his profile, how many people will have added Tony as a friend at the end of 30 days?

(166) When the tub faucet is on full force, it can fill the tub to overflowing in 20 minutes. Normally, the drain can empty a full tub in 15 minutes when the drain is open. Today, though, your four year old daughter, while you were on the phone, has managed to turn the faucet on full. Normally, this would not be a problem but on this day the drain was closed. Just as the tub begins to overflow you run in to discover what has happened. You grab the faucet handle, but in your rush you pull it off and the water is still coming out. Instead you yank the drain open and run for towels to clean up the mess, but have none because it is laundry day also. So you must let the drain empty the water out by itself. How long does it take for the tub to empty with the faucet on and the drain open?

(167) (Monkeys in the Jungle) A group of monkeys are hanging from some trees and see a pile of 3000 bananas. (Monkeys have a way of knowing exactly how many bananas are in a pile.) They want to bring the bananas to their friends 1000 miles away on the other side of the jungle. So, they swing through the jungle carrying as many bananas as they can to the other side. The monkeys are indecisive, so they don’t necessarily make one trip. Altogether, they can carry up to 1000 bananas at any given time, but every mile the group shares one banana. Since the monkeys are good friends, they always stick together. What is the maximum number of bananas the group of monkeys will be able to bring to their friends on the other side of the jungle? How do they do it?

(168) Of three men one man always tells the truth, one always tells lies, and one answers yes or no randomly. Each man knows which man is who. You may ask three yes/no question to determine who is who. If you ask the same question to more than one person you must count it as question used for each person whom you ask. What three questions should you ask?
(169) Nuts in a Bowl
    Scattered around the house are 100 nuts in 5 bowls.
    The 1st and 2nd bowls together contain 48 nuts.
    The 2nd and 3rd bowls together contain 34.
    The 3rd and 4th bowls together contain 30.
    The 4th and 5th bowls together contain 48.
    How many nuts are there in each bowl?

(170) Bobby drinks Snapple Ice Teas during a 5 day school week from Monday to Friday. There are 3 flavors of Snapple Ice Teas: Raspberry, Peach, and Lemon. Bobby rotates between which flavor he drinks. If during one week Bobby drank 2 Snapples a day, how many different arrangements of flavors could he have drunk?

(171) Remove two lines the following three triangles so that there are no longer any triangles.

(172) During the duration of a month you have 600 minutes which you are allowed to use on your mobile phone according to your plan. You are charged 40 cents for every extra minute. Fortunately, nights and weekends are free, so those minutes don’t count. Your nights are from 9:00 pm until 7:00 am. You talk on the phone quite frequently and it seems like someone is calling you everyday and has an hour long problem they need to talk to you about. The time you spend on weekday calls totals 82 minutes each Monday, Wednesday and Friday, while on Tuesday and Thursday you only spend an average of 50 minutes. You also check your voice mail three times each day and it takes you a minute each time.

    What is the average amount of prime time you spend on the phone each weekday and how many minutes do you use in an average month? Do you exceed your allowable minutes? If so, by how much do you exceed your allowable minutes and how much extra does it cost you, on average, each month?