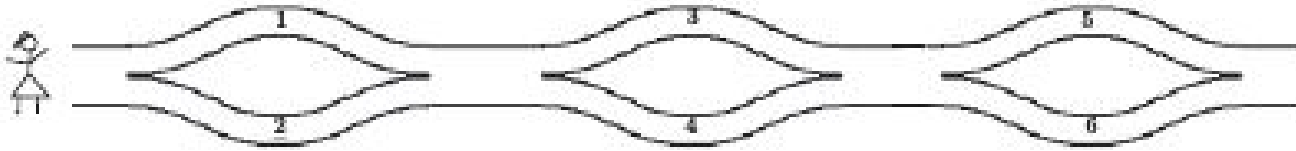First Name: _____ Last Name: _____

Problem 1.

Zita walks from the left to the right and puts the numbers in her basket. Which of the following numbers can be in her basket?

A) 1, 2 and 4   B) 2, 3 and 4   C) 2, 3 and 5   D) 1, 5 and 6   E) 1, 2 and 5

Problem 2.

The combination for opening a safe is a three digit number made up of different digits. How many different combinations can you make using only digits 1, 3 and 5?

A) 2   B) 3   C) 4   D) 5   E) 6
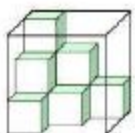
Problem 3.

In the square below the numbers 1, 2 and 3 must be written in the cells. In each row and in each column each of the numbers 1, 2 and 3 must appear. Harry started to fill in the square. Which number can be written in the cell with the question mark?

1	?	
2	1	

A) only 1   B) only 2   C) only 3   D) 2 or 3   E) 1, 2 or 3
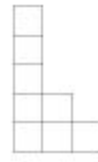
Problem 4.

Daniela has got cubes with their edges 1 inch long. She has put some of them into the aquarium in the shape of a cube with the edges measuring 3 inches in the way you see on the picture. What maximum number of further cubes can she put into the aquarium?
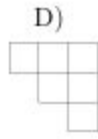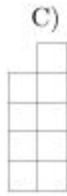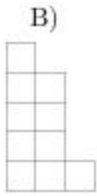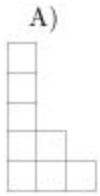

A) 9   B) 13   C) 17   D) 21   E) 27

Problem 5.

What is the piece that fits together with the given one to form a rectangle   ?

A)   B)   C)   D)   E)

Problem 6.

A palindrome is a number which remains the same when its digits are written in reverse order. For example 1331 is a palindrome. A car's odometer reads 15951. Find the least number of kilometer required for the next palindrome to appear.

A) 100   B) 110   C) 710   D) 900   E) 1010