

First Name: \_\_\_\_\_ Last Name: \_\_\_\_\_

**Problem 1**

Which of the following answers gives the largest number less than 15?

- (A)  $8+7$                       (B)  $15-3$                       (C)  $17-4$                       (D)  $7+7$                       (E)  $8+3$

**Problem 2**

Which digit does the flower cover up?

$$\begin{array}{r}
 5 \text{ flower} + \\
 \text{flower} 8 \\
 \hline
 102
 \end{array}$$

- A) 2                      B) 4                      C) 6                      D) 8                      E) 0

**Problem 3**

Which year is the next year after the current year, 2016, that is written with the same digits 0, 1, 2 and 6?

- (A) 2106                      (B) 1206                      (C) 2601                      (D) 2061                      (E) 2160

**Problem 4**

As Hans wrote the problem on the board, he forgot one digit and got this:  $23 + 31 + 2 + 12 = 94$ . The digit he forgot is:

- A) 3                      B) 4                      C) 6                      D) 8                      E) 1

**Problem 5**

In a number the first digit is greater than the second digit by 2, and the second digit is greater than the third digit by 3. What number is this?

- (A) 53                      (B) 530                      (C) 233                      (D) 521                      (E) 431

**Problem 6**

Place the digits 2, 3, 4, and 5 in the squares so that the sum is as large as possible. What is this sum?

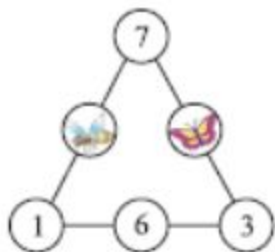
$$\square \square + \square \square$$

- (A) 68                      (B) 77                      (C) 86                      (D) 95                      (E) 97

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**Problem 1**

On each side of the triangle, the sum of the numbers is the same. A butterfly and a bee stopped to rest and they have covered up two numbers. On which number is the bee standing?



- A) 2      B) 0      C) 3      D) 4      E) 10

**Problem 2**

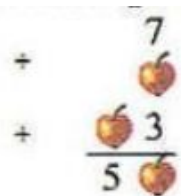
Find the value of each letter R, A, C and place the letters in increasing order of their values. Which order of letter is it?

$7 - 2 = R$        $1 + 3 = A$        $10 - 8 = C$

- (A) CAR      (B) RAC      (C) ARC      (D) CRA      (E) ARAC

**Problem 3**

What digit does the apple stand for?



- (A) 1      (B) 2      (C) 4      (D) 6      (E) 8

**Problem 4**

What number is missing in the picture?



- (A) 210      (B) 202      (C) 92      (D) 308      (E) 920

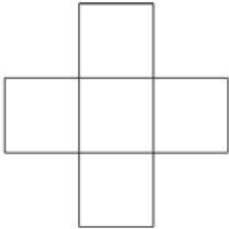
**Problem 5**

How many numbers between 10 and 31 (including 31) can be written using only the digits 1, 2 and 3? You can repeat digits.

- (A) 2      (B) 4      (C) 6      (D) 7      (E) 8

**Problem 6**

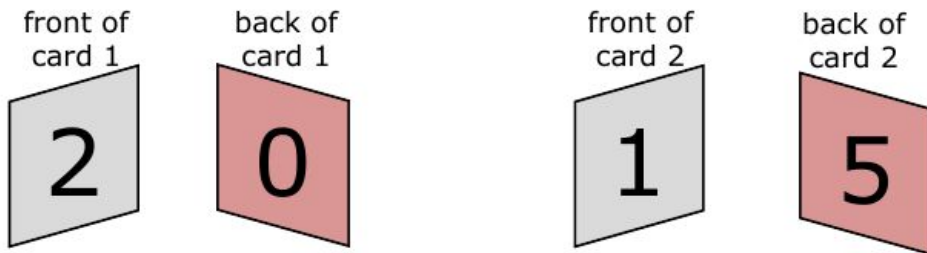
The numbers 3, 5, 7, 8 and 9 were written into the squares so that the sum of the numbers in the row is equal to the sum of the numbers in the column. Which number was written in the centre square?



- (A) 3      (B) 5      (C) 7      (D) 8      (E) 9

**Problem 7**

Nelly took two square cards and wrote the four digits 2, 0, 1, 5, as shown.



In how many ways can Nelly make two-digit numbers using her cards?

- (A) 2      (B) 3      (C) 4      (D) 5      (E) 6