



## 2009-2010 Puzzle Contest #4

First Name \_\_\_\_\_ Last Name \_\_\_\_\_ Grade \_\_\_\_\_



### **Grades K-5 Puzzles:**

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#### **1. CAKE HANDY FOR A PARTY**

*Is it possible* to make a cake in such a shape that it could be cut into 5 pieces by one straight cut? The pieces do not have to be equal.

**20 points**

#### **2. A SPECIAL YEAR**

*In some year* three months in a row contained 4 Sundays each. What are those months? Explain your answer. **30 points**

#### **3. PINOCCHIO CALLS FOR HELP**

*The Cat promised* Pinocchio to share with him a great secret, if he succeeds to fill a square 6 x 6 grid with the numbers 1, 2 and 3, so that the sums of all the numbers in every row, column or the two diagonals are different (that is, there cannot be the same sum in any row and column, row and diagonal, column and diagonal, any two rows, any two columns, or the two diagonals). After a few attempts Pinocchio gave up... Can you help Pinocchio?? **50 points**

**Submission Deadline is March 20.**

Solutions can be emailed to [anna@metrowestschool.com](mailto:anna@metrowestschool.com), deposited into the Tuition Box in the office, or mailed to us or deposited into our Mailbox