



2011-2012 Puzzle Contests

Puzzle Contest #3



Grades 5 and Up Puzzles:

1. WHO IS THE YOUNGEST?

THREE BOYS, A, B AND C are performing at the school talent show. Exactly one of the following statements is false:

- A is older than B
- C is younger than B
- The sum of the ages of A and B is double the age of C
- C is older than A

Which one of the performers is the youngest? Why? *(40 points)*

2. THE SNOWBALL FIGHT

EVAN, BOB AND JIMMY HAD A SNOWBALL FIGHT. The first one to throw a snowball was Bob. For every snowball that hit them, Evan threw back 6 snowballs, Jimmy – 5, and Bob only 4. By the time the game was over, 13 snowballs missed their target. Find how many snowballs hit each boy. (According to the rules of the game one cannot throw a snowball at himself, and one snowball cannot hit two people). *(35 points)*

3. TWO NEW YEAR CLOCKS

TWO DIFFERENT CLOCKS started and ended chiming at the same time. The first clock chimed every 2 seconds, and the second one chimed every 3 seconds. All together they chimed 13 times (any overlapping chimes are considered as 1). How much time passed between the first and the last chimes? *(25 points)*

Solutions deadline is January 22

Please submit your solution to anna@metrowestschool.com
or bring them to the office