

Mount Rainier Math Invitational
Fifth Grade - February 9, 2007
Team Algebra Test

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Put all answers on the colored answer sheet. All fraction answers must be reduced.

Problems 1 through 5 are worth 2 points each	
1	What is the value of x given that $5x + 6 = 36$?
2	If $z = 8$, $x = 6$, and $y = 4$, what is $xz + zy + yx$?
3	John and Michael's ages both add up to 43. If John's age is 4 more than twice that of Michael's age, how old is John?
4	If 36 apples are in 3 bags of apples how many apples are in each bag?
5	If I drove for 8 hours and the ratio of my time speeding to my time driving the speed limit was 3 : 1, how many seconds did I speed?
Problems 6 through 10 are worth 3 points each	
6	A farmer has only perfectly normal chickens and pigs. If there are exactly 13 heads and 40 legs, how many pigs are there?
7	Solve for y : $y = (-2/3)x + 4$, when $x = 16$.
8	The sum of 2 numbers is 63 and the difference is 7 what are the 2 numbers?
9	At Mount Rainier Elementary 20 students attend the school. 8 students are taking P.E., 6 students are taking Lunch, and 4 are taking both how many are taking neither?
10	If there are 5 Creams to 1 Ice and 4 Ices to 3 Cones, then how many creams are there in 6 Cones?