2006 Shoreline Math Olympiad
Mental Math Questions

Instructions to proctor:
Read the question once, wait approximately 15 seconds, then repeat the question a 2nd time.
No further readings are allowed. Give the students adequate time to write down their answers, then proceed.
Collect answer sheets at the end of mental math. Place outside doorway for test runners. Begin individual test.

4th Grade Test #1
#1. 5 kids sit down to play games of checkers. If each of the 5 children plays just one game with each of the others, how many games will be played in all?
#2. When eating out in a restaurant, you are asked to leave a 20% tip. If your meal cost $25, how much of a tip should you leave?
#3. You are planning a party and are expecting 44 guests! You are planning on serving pizza. If each pizza comes sliced into 8 pieces, how many pizzas will you need to buy to have enough for each guest to have one slice?

4th Grade Test #2
#1. Each of the 4 Jones brothers has 1 sister. How many kids are in their family all together?
#2. You have 6 pairs of white gloves, and 6 pairs of black gloves in a box. What would be the minimum number of gloves you would need to take out of the box to ensure that you had at least one matching pair?
#3. 6 people attend a party. If all guests shook hands with each other only once, how many handshakes occurred?

5th Grade Test #1
#1. How many different ways can you arrange 4 books on a shelf?
#2. If you wanted to leave a 20% tip on a $34.00 meal at a restaurant, how much money would you need to leave?
#3. On a conventional clock, how many times does the minute hand pass the hour hand between noon and midnight?

5th Grade Test #2
#1. When rolling two dice, is there a greater chance of rolling a pair, or rolling a sum of 10?
#2. If your doctor says to take an allergy pill every 3 hours, how much time will go by between the 1st pill and the 4th pill?
#3. How much do 10 pieces of candy cost if 1000 pieces cost $10.00?