



Mental Math 5th/6th

Person 1

1	A mathlete can run 5 miles per second when motivated by chocolate. If a mathlete motivated by chocolate ran 65 miles, for how many seconds did the mathlete run?
2	A huge Pop-Tart measuring 6 feet by 6 feet is cut into four identical square pieces. What is the total perimeter of the four resulting pieces, in feet?
3	There are 5 olives on a pizza for every 2 mushrooms and 4 mushrooms for every 3 pieces of Canadian bacon. If the pizza has 6 pieces of Canadian bacon, how many olives are there?
4	Jake has infinite quarters, dimes, and nickels but no pennies. How many possible ways can you borrow \$0.30 from him to go buy food at the concession stand?
5	How many ways can you choose 3 fruits if you have 3 identical oranges, 3 identical bananas, and 3 identical grapefruits?

Person 2

1	Pie can be baked, but pie can also be eaten. Barack bakes 87 pies and eats 25 pies. Joe eats an additional 10 pies. How many of Barack's pies remain?
2	You cut a watermelon in half. You cut each resulting piece in half. You cut each resulting piece in half again and find 3 seeds in each piece. How many seeds were in the whole watermelon?
3	For every kilogram of chips, one kilogram of salsa is required. There is a combined total 8 kilograms of chips and salsa in an elephant's stomach. If each kilogram of chips contains 2500 calories, how many calories that the elephant consumed came from chips?
4	You have a three-layered cake. The cake has one layer of chocolate, one layer of vanilla, and one layer of carrot cake. How many distinct ways can you order the layers?
5	Andrew, Bart, Carl, Don, and Erika run in a race to the concession stand. The first person to arrive wins a free candy bar. Bart comes in before Don, but after Erika, and Erika came in after Carl. If Andrew finished last, who got the free candy bar?

Person 3

1	If there are no parentheses, 5 plus 5 times 5 plus 5 is the same as 5 times what number?
2	A plastic bin of trail mix is 5 percent almonds by weight. If the net weight of the trail mix in the bin is 420 kilograms, how many kilograms of almonds are in the bin?
3	The largest 2 digit positive integer that is evenly divisible by 13 is the number of cars that Meera had. If a dog eats 90 of them, how many cars does she have left?
4	Each day, Austin eats a prime number of candy bars. If Austin is dieting and must not eat more than 10 candy bars per day, what is the maximum number of candy bars he can eat in a day?
5	The largest two-digit perfect square represents the number of years a can of Sunkist is past its expiration year. If the year is 2009, in what year did the Sunkist expire?

Person 4

1	There are 28 slices of pepperoni on each of 5 pizzas. How many slices of pepperoni are there in total?
2	An Xbox 360 costs 300 dollars. A bottle of Gatorade costs six quarters. How many bottles of Gatorade are equivalent in cost to an Xbox 360?
3	Willie the Wolf must eat 5 sheep each day to avoid starvation. Every day, 3 new sheep are born. If there are 100 sheep at the start of day one, on what day does Willie starve?
4	Barney the dinosaur decides whether to eat another dinosaur by throwing two fair six-sided dice. He will eat the other dinosaur if he gets the same number on both dice. What is the probability that the other dinosaur lives? Express your answer as a reduced fraction.
5	A group of unemployed Wall Street bankers is standing in a line. The first 2 bankers each get 1 grain of rice. The amount given to each banker thereafter is equal to the sum of the amount that the previous two bankers received. How many grains of rice does the 7 th banker receive?

Did we make you hungry yet? Go have lunch!

Don't forget that there are goodies available at the concession stand!