

Math Kangaroo Homework #6

Since the Math Kangaroo is coming up in March, we will be solving Math Kangaroo problems for homework. Each week, I will give two Math Kangaroo problems that have showed up previously on real exams. Please solve each problem and provide **complete solutions** (this means showing your work, writing a short explanation for each step, and putting a box around your final answer). **These problems will be collected at the beginning of each class.**

Math Kangaroo 2012 #19

Grandmother made 11 cookies. She decorated 5 cookies with raisins and then 7 cookies with nuts. At least how many cookies were decorated with both raisins and nuts?

More on the back!

Math Kangaroo 2009 #22

The squares of a 3x3 table were filled in with numbers as shown in the picture. In one move, we can switch any two numbers. What is the smallest number of moves like this that we need to make to get a table in which the sum of the numbers in each row is divisible by 3?

4	5	1
8	10	4
7	1	2