

Name: _____

Math Kangaroo Homework #3

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 #21

What number is covered by the flower?

$$\begin{array}{r} \bigcirc + \triangle = 3 \\ \triangle + \triangle = 4 \\ \triangle + \square = 5 \\ \bigcirc + \square = \text{flower} \end{array}$$

Continued on the back

Math Kangaroo 2010 #21

Adam went on a walk through the woods and found a mushroom after every 40 steps that he made. We know that one of Adam's steps is half a yard long, and that he found a total of 20 mushrooms. How many yards did Adam walk from where he found the first mushroom?