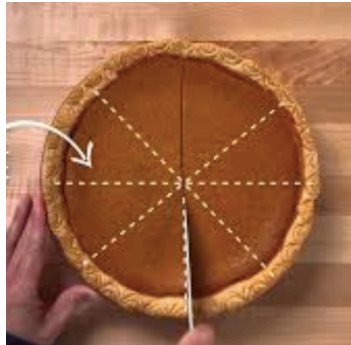# Mathletes Problem of the Week #12

A Slice of Pie

March 14th is pi day! To celebrate the number π, this week's Mathlete's Problem of the Week is about the food pie. When you cut pie (or a circle) from one end to the other, you make 2 pieces. When you cut a pie from one end to the other two times, you can make 4 pieces.

 a) What is the most number of pieces you can make with 3 cuts? (Note, your cuts do NOT all need to go through the center of the pie!)
 b) What is the largest number of pieces you can make with 4 cuts?
 c) Is there a pattern here? Can you predict how many pieces you can get from 5 cuts, 6 cuts, or more?

Solutions & Explanations: (Try one or try them all. Show your solutions and explain your thinking here and on the back!)

Name _____ Class _____

  (First and last name, please!)   **Solutions due: March 14th ($\pi\ day$!)**