## AST101: Our Corner of the Universe Lab 11: Radioactive Decay Prelab

Name:
Student number (SUID):
Lab section:
The lab you will do simulates radioactive decay with a bunch of dice. You will roll the dice, pick out the ones that come out 1, and repeat the process.
To get you used to thinking about the sorts of things you'll think about in the lab, answer the following questions about doing the process with coins.
Specifically, imagine that you have a bunch of pennies. You flip them all, remove all the ones that come up heads, and then repeat the process.
Question 1: If you flip eight pennies and remove all of the ones that come up heads, how many on average will you have left?
<b>Question 2:</b> Suppose you did this twice in a row. How many pennies on average would you have left?

