ME170 Lecture Class Assignment #1

Name: ……………………………

Lab Section (AB#): ……………

1. What Material and Manufacturing Process is the LEFT PANEL of the Toaster made from:

2. How much would the LEFT PANEL cost to manufacture (Piece Part cost - i.e. Fully burdened cost) in the US if made from:
   1. Steel $:
   2. Steel with Powder Coat Paint $:
   3. Stainless Steel $:
   4. Aluminum $:
      - Do you think it would be strong enough out of Aluminum? **Yes** or **No**
      - Roughly much thicker would it have to be? **1x** or **2x** or **3x**

3. Why might it be a bad idea to Injection Mold this part out of Plastic?

4. What Material and Manufacturing Process is the RIGHT COVER of the Toaster made from:

5. How much would the Right Cover cost to manufacture in a single-cavity mold:
   - in the US - Part Cost$: Investment Cost (Tooling/Mold cost)$:
   - in the US - Part Cost$: Investment Cost (Tooling/Mold cost)$: