ME170 Lecture Class Assignment #13

Name: Lab Section (AB#):



1. Rapid Prototyping

The size of this part is 53mm x 53mm x 40mm (SER) The volume is 22,000 mm³ (22 cm³)

How much (\$s) to have one of these printed using SLS by:

- a. Quickparts.com (3d systems)_____
- b. MechSE RP Lab_____
- c. aPriori estimate



2. Injection Molding:

a. What is the Material cost? _____

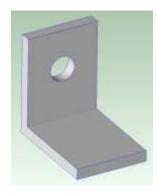
b. What is the Fully Burdened Cost (optimized number of cavities)? _____

c. What is the Investment Cost? _____

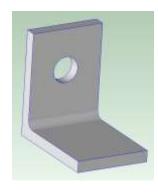
Write down the breakdown of these investment costs that are greater than zero (e.g. Hard Tooling = xx? Fixture Costs = x? etc.)

- d. For USA (optimized number of cavities)_____
- e. For China (optimized number of cavities)_____

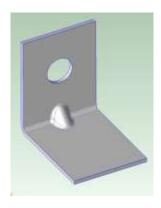
3. Other manufacturing processes (material and form?)



a.? Stock Machining



a ?



c ?