

**PROBLEM 1-1**

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**Statement:** It is often said, "Build a better mousetrap and the world will beat a path to your door." Consider this problem and write a goal statement and a set of at least 12 task specifications that you would apply to its solution. Then suggest 3 possible concepts to achieve the goal. Make annotated, freehand sketches of the concepts.

**Solution:**

Goal Statement: *Create a mouse-free environment.*

Task Specifications:

1. Cost less than \$1.00 per use or application.
2. Allow disposal without human contact with mouse.
3. Be safe for other animals such as house pets.
4. Provide no threat to children or adults in normal use.
5. Be a humane method for the mouse.
6. Be environmentally friendly.
7. Have a shelf-life of at least 3 months.
8. Leave no residue.
9. Create minimum audible noise in use.
10. Create no detectable odors within 1 day of use.
11. Be biodegradable.
12. Be simple to use with minimal written instructions necessary.

Concepts and sketches are left to the student. There are an infinity of possibilities.